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ELEVATOR PRODUCTS CATALOG VOL.4

ADA TELEPHONES ALARM BELLS BARRICADES BATTERIES BRAILLE TAGS CABLE CLIMBERS CABLE OILERS
 CAPACITORS CAR LANTERNS CAR STATIONS CAR TOP INSPECTION STATIONS CARBON BRUSHES CERTIFICATE
 FRAMES COMPENSATING CABLE CONTACT KITS CONTROL RELAYS DAMPENING DEVICES DIGITAL MULTIMETERS
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 SHACKLES SIGNS SOLID STATE STARTERS SUBMERSIBLE MOTORS TACH GEN-
 ERATORS TANK HEATERS TEST WEIGHT CARTS TIMERS TOOLS TRAVELING



FAST SHIP FIXTURE PACKAGE FEATURING THE DL-20

ECC

SPECIAL FEATURES INCLUDE:

DISPLAY - PHONE - EMERGENCY LIGHT - REMOTE ACCESS

THE DL-20 IS A MULTI-FEATURE MICRO-PROCESSOR DEVICE THAT INTEGRATES WITH SERIAL LINK CONTROLLERS.

THE DL-20 HAS A HIGH RESOLUTION 7" LCD DISPLAY THAT PERFORMS THE FUNCTIONS OF THE POSITION INDICATOR, FIRE SERVICE LIGHT, SYSTEM STATUS DISPLAY, AND CUSTOMIZABLE CLIENT DISPLAY.

THE DL-20 COMMUNICATES WITH THE SERIAL CONTROLLER* TO DISPLAY VARIOUS MESSAGES AND PICTURES AS WELL AS PROVIDING VOICE ANNUNCIATION FOR THE VISUALLY IMPAIRED. WITH ITS INTEGRATED ADVANCED FEATURE PHONE, THE DL-20 CAN BE USED FOR REMOTE MONITORING OF ELEVATOR FAULTS, AND AS A PHONE LINE CONSOLIDATOR.

IT ALSO INCLUDES A BUILT IN EMERGENCY LIGHT UNIT AND BATTERY CHARGING CIRCUIT.

STANDARD FEATURES INCLUDE:

No Smoking Signage

Capacity Signage

Certificate Display Area

Standard Code Compliant Braille

Service Cabinet With Light, Fan, Independent, Inspection, 110V Outlet.

Standard Stainless Steel Vandal Resistant Buttons

Code Compliant Braille Fire Operation Panel

Fire Operation Panel (Group 4)



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*Currently fully compatible and tested with Smart-Rise and Motion Control Controllers.

VIDEO DISPLAY



CUSTOMIZABLE 7" LCD DISPLAY SCREEN. (10" OPTIONAL) SCREEN IS DIVIDED INTO VARIOUS SECTIONS AND WILL DISPLAY THE FLOOR POSITION, THE DIRECTION OF TRAVEL, ELEVATOR OPERATIONAL MODES, COMPANY LOGO, AND A LARGE SECTION FOR CUSTOMER ADVERTISING OR IMPORTANT NOTICES.

ADVANCED PHONE



A FULL FEATURED ELEVATOR PHONE WITH CONSOLIDATOR FEATURE TO ALLOW UP TO 8 PHONES ON THE SAME LINE. 4 NUMBER MEMORY. VOICE LOCATION MESSAGE. PROGRAMMABLE BY CALLING IN ON THE ELEVATOR PHONE.

POSITION INDICATOR WITH VOICE



DL-20 COMMUNICATES WITH THE SERIAL CONTROLLER TO DISPLAY POSITION, DIRECTION OF TRAVEL, ELEVATOR STATUS, FIRE SERVICE MESSAGES, AND INCLUDE A CUSTOMIZABLE SET OF VOICE PROMPTS.

REMOTE MONITORING



ELEVATOR FAULTS OR ALARMS CAN BE SENT DIRECTLY TO YOUR PHONE, COMPUTER, EMAIL, OR TEXT USING ONLY THE ELEVATOR PHONE LINE. YOU WILL KNOW THE ELEVATOR IS IN TROUBLE BEFORE YOUR CUSTOMER KNOWS.

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CED Elevator Supply was formed in May 1999, by joining **CED-Long Beach** in California and **All-Phase Electric Supply** in South Windsor, CT. In 2012 new locations in Dallas/Fort Worth, TX and Florence, SC opened their doors.

Our initial task was to investigate, evaluate and implement the "best practices" of each location. We currently service the modernization and construction, OEM, and the service and repair segments of the elevator marketplace. A list of some of our Custom Products and "Value-Added" Services is available on the back of this page.

Our vision was to offer a national source to the elevator industry of premier parts and services at consistent and competitive prices.

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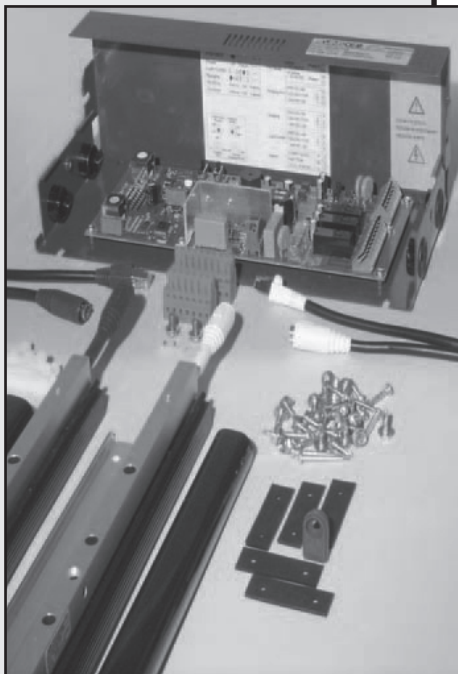
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Pit Switch, Run/Stop	1.20
Selector Tape Guide	1.20

Built-in nudging helps keep elevators moving in environments where riders are likely to hold open the doors. Nudging time is adjustable from 1 to 60 seconds

Simple installation!

Ships complete and ready to install, with the least possible number of separate components to speed installation and limit on-site assembly decisions. GateKeeper MAX's vandal-resistant features keep it working right, and out of harm's way.



Technical Data

Supply voltage	17-265VAC/VDC; use Greenfield fittings for voltages >42V
Typical response time	90 ms
Max. response time	180 ms
Range	Up to 16 ft. (5m)
Current	10VA at 115/230VAC, 200mA at 24VDC
Fuse	6.3A s/b (5 x 20mm)
Relay output (3)	AC max: 265VAC at 8.0A DC max: 125VDC at 0.5A or 24VDC at 8A DC min: 5VDC at 10.0mA (NOTE: If switching high voltage, use slave relay (not included))
Fire Recall I and II	Active: 17-265VAC/VDC Inactive: 0-5VAC/VDC 71"
Protection height	71"
Door height	7 to 10 ft.
No. of light beams	Up to 154 criss-cross beams
Light suppression	>100,000 lux
Connection plugs	WAGO 6 x 5.08
Cable length	16 ft. (5m)
Cable extension (avail)	10 ft. (3m)
Cable lifetime	20 million door movements (if installed correctly)
Enclosure rating, sensors	IP65
Enclosure rating, control unit	IP30
Vibration/shock	IEC 68-2-6 / IEC 68-2-29
Operating temp. range	-5° to +150°F (-20° to +65°C)
Storage temp. range	-20° to +220°F (-30° to +85°C)
EMC	IEC/EN 50081/50082-1, -2; EN 12015 and EN 12016
CSA	B44.1/A17.5-1996
Mounting kit	Complete

Fire Recall Phase I & Phase II: life-saving protocols in an emergency:

Fire Recall Phase I

If the input labeled "Fire Recall Phase I" is activated, the light curtain is disabled and nudging is enabled. The nudging buzzer sounds; it remains on during door close and until the car arrives at the designated landing. The buzzer remains on for 15 seconds after the "Fire Service Phase I" input is deactivated.

Fire Recall Phase II

If the input labeled "Fire Recall Phase II" is activated, the light curtain output is disabled. The nudging function works independent of "Fire Recall Phase II." Operation of the doors is taken over by emergency personnel. This eliminates the need for automatic re-opening and guards against false opening caused by smoke.

Edges

GateKeeper MAX™ Infrared Curtain Unit

The only IR curtain with Phase I/Phase II Fire Recall Service... and it comes with nudging built in!

Built-in nudging

Replaces separate nudging unit for easiest installation. Factory setting of 20 sec. can be reset from 1-60 sec. Nudging buzzer volume is also adjustable.

Plugs into 17-265VAC/VDC

GateKeeper MAX is the only infrared curtain that can be connected to any operating voltage from 17-265VAC/VDC with no additional wiring or modifying! Just plug it in and let it work.

Up to 154 infrared detection beams.

Integrated diagnostic circuitry

An on-board microprocessor adjusts automatically to optical conditions within protected area. As conditions change (from dust, dirt, etc.), microprocessor resets every beam for best performance under prevailing conditions.

LED current-control system

An LED drive circuit constrains emitting current to lowest possible effective level. Result: reduced stress on LEDs help extend their life to millions of hours. This feature is unique to the GateKeeper product line.

No incidents reported

With more than 150,000 units in service, not a single incident report has been recorded. This is most meaningful to anyone who has been named in a liability suit due to an unreliable door protection system.

CSA approved, Fire-Code conformant

GateKeeper MAX meets all ANSI requirements and other U.S. and Canadian performance standards. Also conforms to Phase I and Phase II Fire Codes.

Extra-wide 16-ft. operating range

Weary of measuring door openings and matching them to the right door unit? GateKeeper MAX works with all of them. One model, one part number, one great protection device. Choose 7-ft. or 10-ft. model according to door height.

Moving cable tested to 20,000,000 cycles

Part Number	Description
A850G7MAX	7ft. GateKeeper MAX unit w/mounting kit; (doors up to 7 ft. high)
A850G10MAX	10ft. GateKeeper MAX unit w/mounting kit; (doors 7 to 10 ft. high)
A850G7MAX-P1	Control unit (power supply)
A850G7-R1	Receiver (with blue plug)
A850G7-T1	Transmitter (with white plug)
A850G7-RR1	Receiver cable, 16 ft. (blue plug)
A850G7-RT1	Transmitter cable, 16 ft. (white plug)
A850G7-VS	Vision shield, 7 ft.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

GateKeeper® Infrared Curtain Unit

GateKeeper is the industry choice for uncompromising door protection

Plugs into 17-240VAC/VDC

GateKeeper and GateKeeper MAX are the only infrared curtains that can be connected to any operating voltage from 17-240VAC/VDC with no additional wiring or modifying! Just plug it in and let it work.

Up to 154 infrared detection beams

Integrated diagnostic circuitry

LED current control system

No incidents reported

CSA approved

GateKeeper meets all ANSI requirements and other U.S. and Canadian performance standards.

Extra-wide 16-ft. operating range

Moving cable tested to 20,000,000 cycles

GateKeeper® 3D

Infrared Curtain System that easily retrofits to any existing mechanical or electrical system

Easy to Install

Retrofits to ANY and ALL door protection systems without removing the existing system—even electromechanical safety-edge applications. Other 3D products require removal of the existing door safety edge in order to obtain 3D functionality.

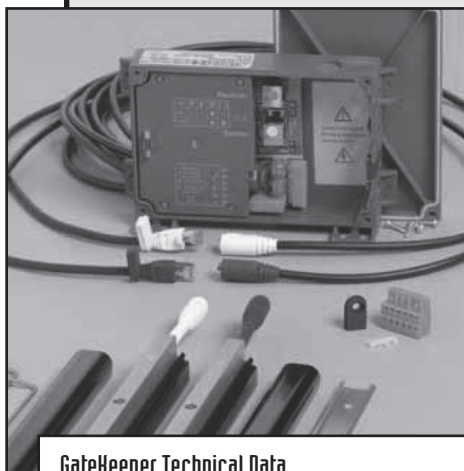
Intelligent Design

Distinguishes between static and moving objects in the 3D zone. This allows the system to override the static object's presence, enabling the door to close, thus avoiding delays.

Adjustable 3D Zone

Adjusts to aim in two dimensions. For center-opening applications, the ideal detection zone is directly in front of the door. However, for side-opening doors, the 3D sensor can also be adjusted left and right to aim the detection zone for the particular application.

Replacement	
Parts	Description
A850G7-HW	GateKeeper Hardware Bag
A850G7-MP	Mounting Profile, 7'
A850G7-P1	GateKeeper 2000 Control Unit (power supply)
A850G7-R1	Receiver (with blue plug)
A850G7-T1	Transmitter (with white plug)
A850G7-RR1	Receiver cable, 16 ft. (blue plug)
A850G7-RT1	Transmitter cable, 16 ft. (white plug)
A850G7-SP	Spacer Profile, 7'
A850G7-T1	Emitter White
A850G7-VS	Vision shield, 7 ft.



Modular connecting cables lead the list of features that make GateKeeper the easiest-to-install infrared curtain in the world.

GateKeeper Technical Data

Supply voltage	17-240VAC/VDC; use Greenfield fittings for voltages >42V
Typical response time	90 ms
Range	Up to 16 ft. (5m)
Current	5VA at 115/240VAC 115mA at 24VDC
Relay output (3)	AC max: 265VAC at 8.0A DC max: 125VDC at 0.5A or 30VDC at 8A DC min: 5VDC at 10.0mA (NOTE: If switching high voltage, use slave relay (not included))
Protection height	71"
Door height	7 to 10 ft.
No. of light beams	Up to 154 criss-cross beams
Light suppression	>100,000 lux
Connection plugs	WAGO 6 x 5.08
Cable length	16 ft. (5m)
Cable extension (avail)	10 ft. (3m)
Cable lifetime	20 million door movements (if installed correctly)
Enclosure rating, sensors	IP65
Enclosure rating, control unit	IP54
Vibration/shock	IEC 68-2-6, -29
Operating temp. range	-5° to +150°F (-20° to +65°C)
Storage temp. range	-20° to +220°F (-30° to +85°C)
EMC	IEC/EN 50081/2, EN 12015/6
CSA	B44.1/A17.5-1996
Mounting kit	Complete

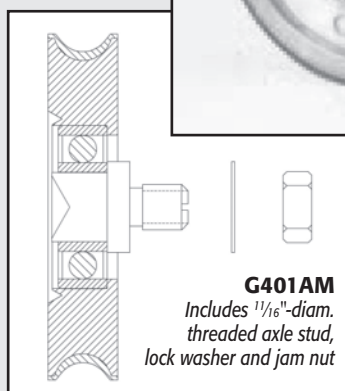
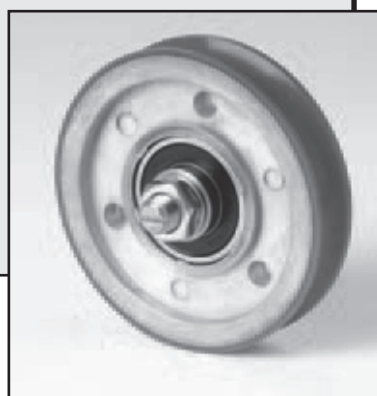
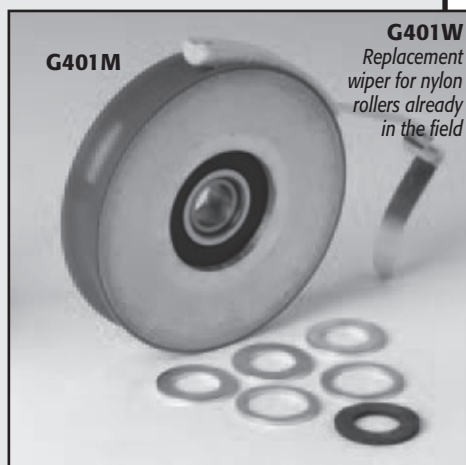


The GateKeeper 3D sensor projects the invisible 'cone' of infrared light out onto the landing to detect people and objects approaching the elevator.

Part Number	Description
A850G7	7-ft. GateKeeper unit w/mounting kit (doors up to 7 ft. high)
A850G10	10-ft. GateKeeper unit w/mounting kit (doors up to 10 ft. high)
A850G7WP	NEW waterproof model for doors up to 7 ft. high
A8503D	GateKeeper 3-D Sensor (includes mounting hardware).
A8503D100	GateKeeper Single 3-D Rectangular Sensing Beam Kit (For use with any GateKeeper or other existing 2-D light curtain. Includes intelligent distance and motion detection, intelligent "timeout" feature, automatic door fadeout.)
A850EZ159	GateKeeper EZ-159 Economy Kit with 24 VDC power
A850EZ159110	GateKeeper EZ-159 Economy Kit with 110 VAC power
A850EZ1593D	GateKeeper EZ-159 Kit with 3-D Sensing Beam

Questions? Answers at...

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G.A.L. Door Operator Rollers

Replacement Rollers

Adams is the leading manufacturer of replacement G.A.L. door hanger rollers. You can count on the G401M for long life and reliability, and reduce the number of door-related call-backs while improving the overall quality of your G.A.L. installation.

- **Hubs:** Precision machined cast aluminum.
- **Tire:** Adams' own **low-friction LFX^{70™} Durabond™ polyurethane** goes into every smooth- and quiet-running tire. LFX^{70™} is as tough as any material now in use for door rollers. It resists breaking, cracking, and wear, and eliminates the need for a wiper.
- **Bearings:** Special low-friction bearings make the G401M one of the true "easy riders." To ensure concentricity and long life, rollers are machined after the bearings are installed.

Part Number	Description
G401M	Door hanger roller kit: includes (1) roller, (7) washers, and complete installation instructions. (Replaces G.A.L. NH roller kit.)
G401AM	Door hanger roller with axle stud

Replacement Wipers

Replacement felt wiper impregnated with light oil for superior cleaning action. *Not required with G401M superior-quality polyurethane tire.*

Part Number	Description	Units in Package
G401W	Replacement felt wiper for G.A.L. original roller (Replaces G.A.L. HH-1-2-E.)	1
G401WX	100-Pack of G401W wipers	100

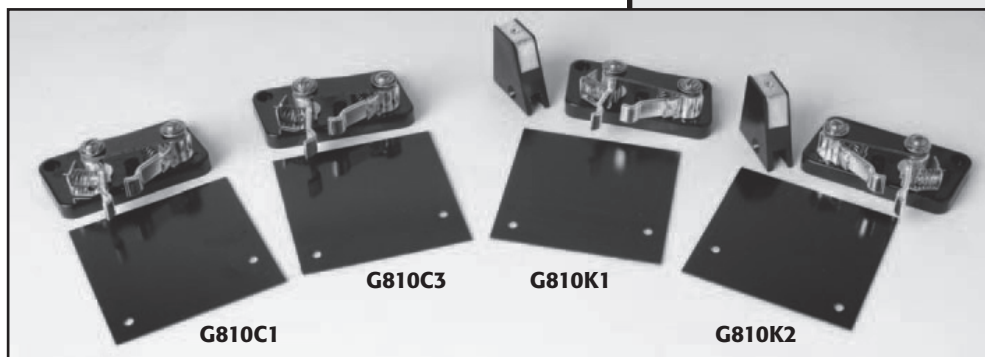
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G.A.L. Door Operator Interlocks

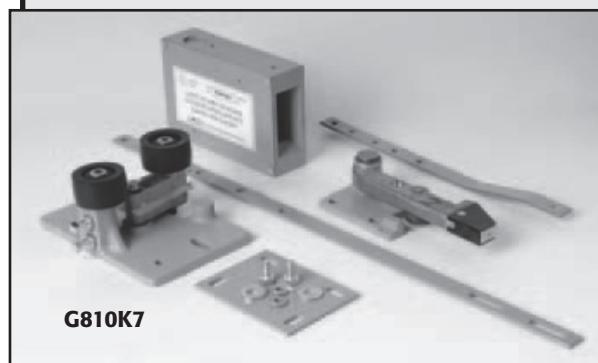
Contact Assemblies

Part Number	Description	G.A.L. Part Number
G810C1	Contact assembly for MO interlock, RH, complete; includes canvas/phenolic insulator	INT1H-0024R
G810C2	Contact assembly for MO/MOCP interlock, LH, complete; includes insulator; use with G810C3 RH contact assembly	INT1H-0024L
G810C3	Contact assembly for MOCP interlock, RH, complete; includes canvas/phenolic insulator	INT2H-0018R
G810K1	MO contact kit, RH; includes one each: G810C1 contact assembly, G812C1 MO keeper bridging block, canvas/phenolic insulator and mounting screws	INT1H-0036R
G810K2	MO/MOCP contact kit, LH; includes one each: G810C2 contact assembly, G812C1 MO keeper bridging block, canvas/phenolic insulator & mounting screws; use with G810K3 RH contact kit	INT1H-0036L
G810K3	MOCP contact kit, RH; includes one each: G810C3 contact assembly, G812C1 MO keeper bridging block, canvas/phenolic insulator and mounting screws	INT2H-0017R



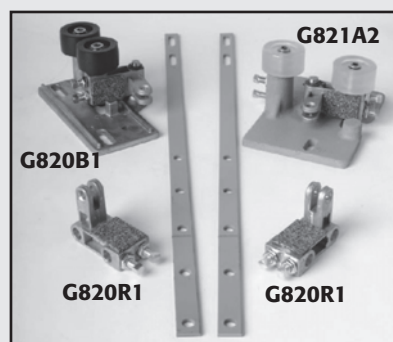
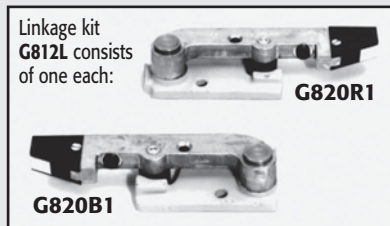
Interlock Kits

Part Number	Description
G810K4	MOH interlock kit, LH; includes one each: G810B2 switch housing, G812B2 keeper assembly, G812LL lower linkage, and G820B2 MOH horizontal release assembly. (G.A.L. INT1H-0002L)
G810K5	MOH interlock kit, RH; includes one each: G810B1 switch housing, G812B1 keeper assembly, G812LL lower linkage, G812UL upper linkage, and G820B1 MOH horizontal release assembly. (G.A.L. INT1H-0002R)
G810K6	MOM interlock kit, LH; includes one each: G810A2 switch housing, G812A2 keeper assembly, G812LL lower linkage, and G821A2 MOM vertical release assembly.
G810K7	MOM interlock kit, RH; includes one each: G810A1 switch housing, G812A1 keeper assembly, G812LL lower linkage, G812UL upper linkage, and G821A1 MOM vertical release assembly.



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 Linkage kit
 G812L consists
 of one each:


G.A.L. Door Operator Interlocks & Jumpers

MO Keeper

Part Number	Description	G.A.L. Part Number
G812A1	MO keeper assembly, RH; includes cast iron mounting base, brass keeper, keeper bridging block contact	—
G812A2	MO keeper assembly, LH; same as above	—
G812C1	MO keeper bridging block contact	INT1H-0017N
G812L	MO adjustable linkage kit; includes one each: G812LL, G812UL	—
G812LL	MO lower linkage; includes snap link pin & lower bushing	INT1H-0026N
G812UL	MO upper linkage; includes snap link pin & retainer clip	INT1H-0018N

GAL Jumpers

Part Number	Description	G.A.L. Part Number
G30L3	"Tomahawk" with MO jumper head & 10½" long looped handle	INT1H-0035N
G30L2	Double-barrel contact head	INT5-0029N
G30L1	Combination MO jumper head does the job of both jumpers above; no handle.	INT5-0042N

MOH Horizontal Release & MOM Vertical Release

Part Number	Description	G.A.L. Part Number
G820B1	MOH horizontal release assembly, complete; RH; includes aluminum mounting base, release rocker, clutch rollers, lower actuator link snap link bushing. (Steel G820A1)	INT1H-0022R
G820B2	MOH horizontal release assembly, complete; LH; opposite of G820B1. (Steel G820A2)	INT1H-0022L
G820R1	MOM release rocker; includes set screws, nuts, bumper pad. Can be used for both right- and left-hand applications.	—
G821A1	MOM vertical release assembly, complete; RH; includes cast iron mounting base, release rocker, clutch rollers, lower actuator link, snap link bushing (opposite of G821A2, shown)	INT1M-0033R
G821A2	MOM vertical release assembly, complete; LH;	INT1M-0033L

MO Interlock

Part Number	Description	G.A.L. Part Number
G810A1	MO interlock switch housing and contacts, RH; complete with mounting plate	INT1H-0013R
G810A2	MO interlock switch housing and contacts, LH; complete with mounting plate	INT1H-0013L
G810B	Interlock mounting bracket used to convert side-opening interlocks to center-opening	—

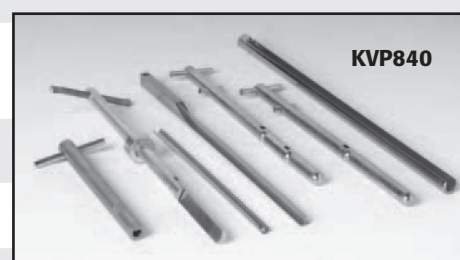
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G.A.L. Door Operator Interlock Components

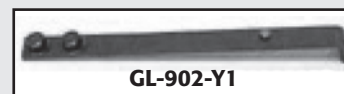
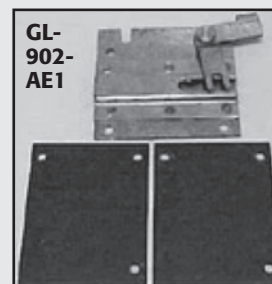
Interlock Components

Part Number	Description	G.A.L. Part Number
G825	Replacement clutch roller (flat) & shaft; brown heavy-duty poly roller, diameter = 1 1/2"	INT1H-0023N
G825A	Replacement clutch roller & shaft; black Quiet Poly roller, diameter = 1 1/2"; tire radius = 3"	—
G825R	Black Quiet Poly clutch roller & bushing assembly without shaft; same roller as G825A	—
G840	Corridor door lock key, KMO-type (universal)	INT1H-0034N
G841	Type M key for swing doors	INT1H-0129N
G20A1	Movable contact finger for intermediate relay	RH LC-0021R
G20A2	Movable contact finger for intermediate relay	LH LC-0021L
G20C1	Stationary silver contact for intermediate relay; 3/8"-diameter silver contact on threaded hex stud w/nut; 1" length overall	—
G20C2	Stationary carbon contact for intermediate relay; 3/8"-dia. carbon contact on threaded hex stud w/nut	CONT-0001L
KVP840	Door Key Value Pack; includes one each: G840, G841, W824L, W824T, O825A, O825B, O825C	—



Keeper & Locking Components

Part Number	Description	G.A.L. Part Number
GL-902-AE8	Locking Bar Guide, LH	CLU3-0328L
GL-902-A8	Door Lock Assembly, SM, RH	INT6-0001R
GL-902-C5	Door Lock Assembly, SM, LH	INT6-0001L
GL-902-R4	Interlock, Type "N", LH	INT22-0001L
GL-902-C4	Interlock Roller, 4 1/2" centers	INT5-0025N
GL-902-L8	Roller & Bolt	INT5-0027N
GL-945-H	Gate Switch Assembly, Complete	SW1-0001N
GL-945-M	Operating Cam Assembly	SW1-0010N
G30B1	Keeper Stem Bumper	INT1H-0019N
GL-902-Y1	Locking Bar	
GL-902-Y2	Locking Cam, LH	
GL-902-AA9	Locking Cam, RH	

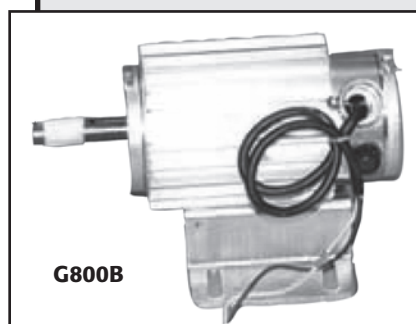


GAL Door Motor

The G800B replacement motor comes with only two armature leads. OEM-wound field motors (and the older G800A replacement) have 4 leads. Two fewer leads makes installation easier than ever. Connect only the A1 & A2 armature leads. Unused field leads can be taped off and ignored.

Specifications

Operating voltage	230VDC
HP	1/6
Weight	11.0 lbs.
No-load rpm	1150
Motor type	Perm. magnet
Length, Body/Shaft	6 7/8" / 1 5/8"
Diameter, Body/Shaft	4 3/16" / 3/8"



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Adams Keyswitches

All Adams keyswitches use our Survivor base and are built with tough Lexan® housings. Choose from 2-, 3-, and 4-position configurations. 2-position switches are rated B300, Q300. All locks are 5-disk tumbler type. Key movement is 12:00/3:00 for 2-pull models; 9:00/12:00/3:00 for 3-pull models; and 6:00/9:00/12:00/3:00 for 4-pull keyswitches.

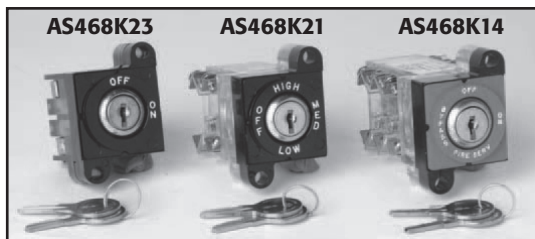
Keyswitches are available in 1/8" or 1/4" high halos. Order a complete assembly, halo only, base only, keyswitch only, or replacement key. Keyswitches can also be ordered in bronze or stainless cylinders. Keyswitches come with 2-, 4-, or 6-contact bases.

Order the switch and halo style from the table. For a switch not listed, please call CED.

NOTE: All keyswitches listed have 1/8"- high halos. Call for 1/4"-high halos (necessary for swing return stations).

Ordering Keyswitches

1. **Choose the function and halo legend** that matches the service configuration you need.
2. **Select halo style you need:** Survivor, Designer, Classic, or Survivor/PLUS.
3. **For complete keyswitch assembly:** Order "Switch only" and the halo you need from the appropriate "halo only" style column. [For a complete Survivor keyswitch, order from "Complete keyswitch" column; complete keyswitch includes a Survivor-style halo.]
4. **Stainless or bronze:** Complete keyswitch part numbers listed are for stainless. To order bronze switches, substitute a "J" for the "K" in the complete-keyswitch part number. For example, for a bronze Survivor assembly of keyswitch number **AS468K01** Fire Service, you would order complete-keyswitch part number **AS468J01**. [To order same switch with a **Classic** halo, order **AS468A101** (switch only) **PLUS AS480B319** (Classic halo only) for stainless; use switch-only part no. **AS468B101** for bronze.]
5. **Length of Base:** 2 contacts 1.875" deep, 4 contacts 2.375" deep, 6 contacts 3.000" deep.



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Keyswitches

Function	Halo designations/locations				Keypulls				Survivor® Part Number				Designer™		Classic™		Survivor/Plus®		Key only	Key Code	Base Contacts Config.
	12:00	3:00	6:00	9:00	12:00	3:00	6:00	9:00	Complete Keyswitch	Switch Only	Halo Only*	Halo Only*	Halo Only*	Halo Only*	Halo Only*	Halo Only*	Halo Only*				
Car Call			Up		X	M	-	-	AS468K06	AS468A115	A449B113	HBDO113W	AS480B313	A448B113	Custom	MAxxx	4	DPDT			
	Off	On	Down		X	M	-	-	AS468K07	AS468A115	A449B114	HBDO114W	AS480B314	A448B114	Custom	MAxxx	4	DPDT			
Fire Service (Hall) Phase I			Call		X	M	-	-	AS468K17	AS468A113	A449B119	HBDO119W	-	-	AKC0052A	AE102	4	DPDT			
			Up		X	M	-	-	AS468K15	AS468A113	A449B113	HBDO113W	-	-	AKC0052A	AE102	4	DPDT			
		Up			X	M	-	M	AS468K11	AS468A205	A449B117	HBDO117W	AS480B317	A448B117	Custom	MAxxx	4	SPDT			
			Down		X	M	-	-	AS468K16	AS468A113	A449B114	HBDO114W	-	-	AKC0052A	AE102	4	DPDT			
		Up	Down		X	M	-	M	AS468K18	AS468A305	A449B117	HBDO117W	-	-	AKC0052A	AE102	4	SPDT			
	Off	On	Fire Service		X	X	-	0	AS468K01	AS468A101	A449R181	HBDO181R	AS480R381	A448R181	AKC0054A	WD01	4	SP3T			
	Off	On	Fire Recall		X	X	-	0	AS468K09	AS468A101	A449R189	HBDO189R	AS480R389	A448R189	AKC0054A	WD01	4	SP3T			
	Off	On	Fire Service		X	X	-	0	AS468K14	AS468A202	A449R181	HBDO181R	-	-	AKC0054A	WD01	4	SP3T			
2000 Code Fire Control Panel Control	Off	On	Fire Service		X	X	-	0	AS468K30	AS468A218	A449R181	HBDO181R	AS480R381	A448R181	AKC0056	H341	6	SP3T			
	Off	On	Fire Service		X	X	-	-	AS469K14	AS469A17	A449R187	HBDO187R	AS480R387	A448R187	AKC0054A	WD01	2	SPDT			
	Off	On	Fire Service		X	X	-	-	AS469K04	AS469A17	A449R182	HBDO182R	AS480R382	A448R182	AKC0054A	WD01	2	SPDT			
	Off	On	Fire Recall		X	X	-	0	AS468K39	AS468A101	HRR0192	HBDO192R	-	HRR0192V	AKC0054A	WD01	4	SP3T			
2000 Code (Optional Halo)	Off	On			-	-	-	-	-	-	HRR0194	HBDO194R	-	HRR0194V	-	-	-	-	-	-	
2000 Code Fire Control Panel Control	Off	On	Fire Recall		X	X	-	-	AS469K14	AS469A17	HRR0187	HRR0187R	-	HRR0187V	AKC0054A	WD01	6	SPDT			

Notes:

Blank Keyswitch Halos:

A450H4B, Survivor, black, 1/8"h
AS472-12B, Designer, black, 1/8"h

A450H4R, Survivor, red, 1/8"h
AS472-12R, Designer, red, 1/8"h

Keypulls Legend: X = Keypull at that location 0 = No keypull - = No function M = Momentary contact/spring return

Keyswitches



ADAMS PRODUCTS

Survivor® Part Number-----											
Halo designations/locations-----				Keypulls-----				Complete			
Function	12:00	3:00	6:00	9:00	12:00	3:00	6:00	9:00	Keyswitch	Switch Only	Halo Only*
Fire Service (Car) Phase II	Hold	On	Fire Service	Off	X	X	X	X	AS468K05	AS468A201	A449R186
	Hold	On	Fire Service	Off	X	X	X	X	AS468K25	AS468A116	A449R186
	Hold	On	Fire Service	Off	X	X	X	X	AS468K13	AS468A102	A449R186
	Hold	On	Fire Service	Off	X	X	X	X	AS468K29	AS468A123	A449R186
	Off	On	Fire Service	Off	X	X	X	X	AS468K01	AS469A02	A449R187
2000 Code (Optional Halo)	Off	On	Fire Recall	Off	X	X	X	X	AS469K20	AS469A02	A449R187
	Hold	On	Fire Operation	Off	X	X	X	X	AS468K32	AS468A149	HRR0190
Fan	Hold	On	Fan	Off	X	X	X	X	AS469K12	AS469A05A	HRR0195
	Off	On	Fan	Off	X	X	X	X	AS468K21	AS468A207	A449B109
	High	Med	Low	Off	X	X	X	X	AS468K02	AS468A104	A449B110
Fan/Light	High	Low	Fan	Off	X	X	X	X	AS468K03	AS468A104	A449B112
	Light	High	Low	Off	X	X	X	X	AS468K20	AS468A207	A449B122
	Light	High	Fan/Light	Off	X	X	X	X	AS469K10	AS469A05A	A449B111
Photo Eye	Off	On	Photo Eye	Off	X	X	X	X	AS469K07	AS469A05	A449B104
	Off	On	Top Eye	Off	X	X	X	X	AS469K08	AS469A05	A449B105
	Off	On	Bottom Eye	Off	X	X	X	X	AS469K09	AS469A05	A449B106
Motor/Generator	Off	On	M/G	Off	X	X	X	X	AS469K15	AS469A05	A449B101
	On	Start	M/G	Off	X	M	X	X	AS468K19	AS468A111	A449B121
	Stop	Stop	M/G	Start	X	M	M	M	AS468K22	AS468A212	A449B102
Off/On	Off	On	Emer. Service	Off	X	X	X	X	AS468K23	AS468A209	A449B118
	Off	On	Emer. Power	Off	X	X	X	X	AS469K02	AS469A07	A449R184
	Run	Stop	Code Blue	Off	X	X	X	X	AS469K16	AS469A05	A449R183
Emergency	Run	Stop	Code Blue	Off	X	X	X	X	AS469K21	AS469A04C	A449R188
	Off	On	Code Blue	Off	X	X	X	X	AS468K26	AS468A409	A449R188
	Run	Stop	Hosp. Service	Off	X	X	X	X	AS468K31	AS468A113	HBR0150
Service	Off	On	Hosp. Service	Off	X	X	X	X	AS469K03	AS469A07	A449R185
	Off	On	Ind. Service	Off	X	X	X	X	AS469K05	AS469A05	A449B103
	Off	On	Attendant	Off	X	X	X	X	AS469K06	AS469A05	A449B107
Access	Up	Up	Access	Down	X	M	M	M	AS468K04	AS468A103	A449B115
	Off	On	Access	Down	X	M	M	M	AS468K12	AS468A114	A449B115
	Off	On	Inspection	Inspection	X	X	X	X	AS469K22	AS469A04	A449B128
Inspection	Off	On	Inspection	Inspection	X	X	X	X	AS469K13	AS469A04	A449B116
	Off	On	Inspection	Inspection	X	X	X	X	AS468K24	AS468A309	A449B116
	Off	On	Inspection	Inspection	X	X	X	X	AS469K17	AS469A15	A449B118
Floor Disconnect	Off	On	Light	Off	X	X	X	X	AS469K18	AS469A13	A449B118
	Off	On	Light	Off	X	X	X	X	AS469K19	AS469A05	A449B118
	Off	On	Light	Off	X	X	X	X	AS469K11	AS469A05A	A449B108
Light	Off	On	Light	Off	X	X	X	X	AS469K11	AS469A05A	A449B108

Keypulls Legend: X = Keypull at that location O = No keypull -- = No function M = Momentary contact/spring return

*Separate contacts

Notes:

2-Contact Base=1.875"d; 4-Contact Base=2.375"d; 6-Contact Base=3.0"d
Halo for Code Blue: **HBR0150**-Blue Halo Survivor Style **HBR0190**-Red Halo
RUN/STOP Vandal-resistant halos: A448R188 = black halo A448R190 = red halo
AS458-10 = #4 stainless, engraved w/red fill; fits into coined pocket

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



KE Terminal Limit Switch

The electronic replacement for obsolete mechanical switches

Easy to Install—Nothing to Maintain

The KE Terminal Limit Switch's breakthrough design features magnetic actuators mounted in the elevator shaft for consistent activation, without the wear and tear of traditional roller-arm switches. You'll experience noiseless operation, improved ride quality and a longer maintenance-free life.

How It Works

A magnetically activated cartop-mounted switch array is teamed with rail-mounted actuating magnets to provide consistent bi-directional signals that bring out the best in today's microprocessor-based controls.

Maintenance Free

KE Terminal Limit Switches are reliable, accurate and require no maintenance. Break free from bulky and noisy mechanical cams and switches and the maintenance they require.

Advantages

- Cartop mounting eliminates hoistway rewiring by using available traveling cable conductors
- Straightforward installation on cartop
- Non-contact, noiseless operation—silent inside the car, even on the cartop!
- Rugged, durable switch technology was developed to sense high-speed bullet train position
- Consistent activation flight after flight, year after year
- Set and forget design requires no adjustment or maintenance once installed
- Better price point than competitive magnetic switches

Many Uses

- Normal terminal slowdown device
- Emergency terminal stopping device
- Speed-limiting device
- Access limit switch
- Earthquake car-to-counterweight switch
- Not for final limits, which must be mechanical per code

Part Number	Description
KE-8	Car speed: 0 to 350 fpm 8 switches, 8 lanes
KE-14	Car speed: 350 to 1400 fpm 14 switches, 14 lanes

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

LEDs for Adams Fixtures

LEDs for Survivor Base

These LEDs will work with Adams Survivor® base jewel or button including Survivor, Designer, Classic, Homelift and Survivor Plus (Sold in 10-packs; base sold separately, see page 1.19).

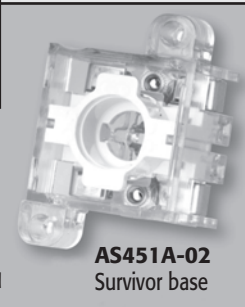
Part Numbers		
Red	Amber	Voltage AC/DC
A494LR0*	—	Phone*
A494LR1	A494LW1	6
A494LR2	A494LW2	12
A494LR3	A494LW3	24/28
A494LR4	A494LW4	48/60
A494LR5	A494LW5	120
—	A494LW7	240



AS451A-02
Survivor base for
LED illumination



A494LW1



AS451A-02
Survivor base

7-jewel LEDs for A474IL

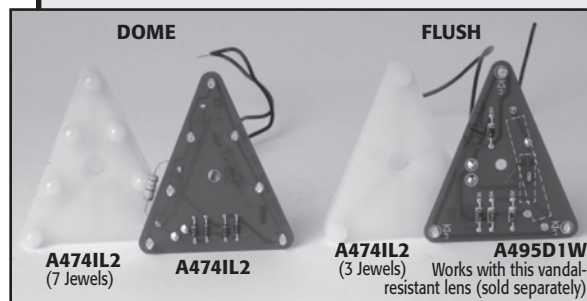
Triangular Hall Lanterns

Part Numbers			
Green	Red	Amber	Voltage AC/DC
A495I1G2	A495I1R2	A495I1A2	24
A495I2G2	A495I2R2	A495I2A2	48
A495I3G2	A495I3R2	A495I3A2	60
A495I4G2	A495I4R2	A495I4A2	120
A495I5G2	A495I5R2	A495I5A2	240

LEDs for A474FL Hall Lanterns

(3-jewel units to replace existing A495D-series)

Part Numbers			
Green	Red	Amber	Voltage AC/DC
A495D0G	A495D0R	A495D0W	12
A495D1G	A495D1R	A495D1W	24/28
A495D2G	A495D2R	A495D2W	48
A495D3G	A495D3R	A495D3W	60
A495D4G	A495D4R	A495D4W	120



A474IL2
(7 Jewels)

A474IL2

A474IL2
(3 Jewels)

A495D1W
Works with this vandal-resistant lens (sold separately)

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Rollers Dover & ElSCO



ElSCO™ Roller Guides

Genuine ElSCO roller guides and guide wheels. Wheels on all models are fitted with Neoprene tires. Increase the load capacity of A901 and A902 by replacing the Neoprene wheels with Adams SPx80 Quiet Poly rollers (sold separately).

Part Number	Recommended Application	
A901	High-speed passenger and heavy-duty freight elevator six-wheel guide with adjustable stops.	
A902	Moderate-speed and moderate-capacity elevator with adjustable stops.	
A903	A smaller version of the A901. Designed for many elevators and counterweights.	
A904	For low-speed & low-load elevators and moderate-speed counterweights.	

Part Number	Number of Wheels	Wheel Diameter	Cab Capacity			Speed		ELSCO Part Number
			Passenger	Freight	Counterweight	Passenger/Freight	Counterweight	
A901	6	6"	8000lbs.	12,000lbs.**	N/A	1500ft./min.	N/A	Model A
A902*	3	6"	4500lbs.	6000lbs.**	8000lbs.	700ft./min.	1400ft./min.	Model B
A903	6	3 1/4"	2500lbs.	N/A	8000lbs.	400ft./min.	800ft./min.	Model C
A904*	3	3 1/4"	2000lbs.	2000lbs.	4000lbs.	250ft./min.	800ft./min.	Model D

*Sold only in sets of 2.

**When modified with Adams SPx80™ Quiet Poly rollers (sold separately).



Dover Door Clutch Replacement Roller Kit

Kit includes 1 5/8"-dia. poly roller, nylon washers and retaining clip.

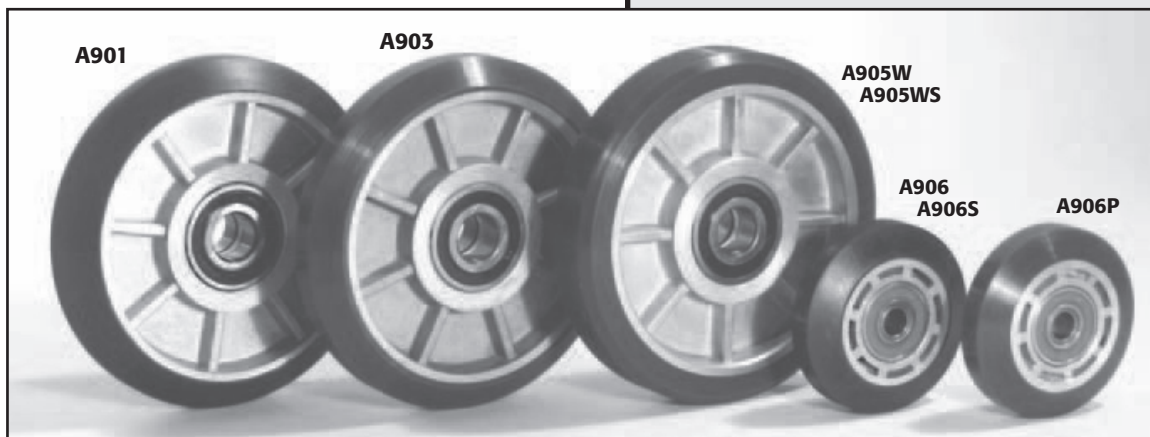
Part Number **D803R1**

(Replacement for Dover parts 9838351 & 63835)

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Rollers Elsco



Elsco™ Replacement Roller Guide Wheels

Adams replacements for Elsco roller guide wheels are meticulously machined, then concentrically ground to within 0.002" total indicator run-out.

The two precision ball bearings in each wheel are fully sealed, and protected by neoprene and metal shields. You won't find a better-made replacement roller for Elsco roller guide assemblies.

Looking for the quiet ride of rubber with the durability of polyurethane? Consider Adams' exclusive SPx80™ Quiet Poly Durabond™ tires. You get the quiet ride of rubber, plus longer life and greater resistance to ozone and petroleum products that invade the hoistway. Choose from quiet-running SPx80 Quiet Poly or HDx95™ Heavy-Duty Durabond

Tires are beveled to give smooth-running roller surfaces around the entire roller circumference.

Accept no substitutes! These replacement roller guide wheels are designed to be used exclusively with the Elsco roller guide assemblies shown on the facing page.

For high-speed elevators, order **A905S**, **A905WS**, and **A906S** Quiet Poly rollers.

For high-capacity elevators, your best choice is HDx95 Heavy Duty: **A905P** face roller, **A905W** side roller, and **A906P**.

Color Key for Adams Poly
Red = LFX80 Low Friction
Black = SPx80 Soft
Clear = HDx95 Heavy Duty

Replacement Guide Wheels

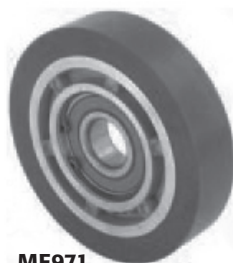
Part Number	Diam.	Width	Face	Bore	Tire Material	For use on	Elsco Part Number
A905S	6"	1 1/4"	1/2"	0.7874"	SPx80 Quiet Poly	Model A	18359
A905P	6"	1 1/4"	1/2"	0.7874"	HDx95 Heavy-Duty	high-speed	XELA-48
A905W	6"	1 1/4"	7/8"	0.7874"	HDx95 Heavy-Duty	& Model B	—
A905WS	6"	1 1/4"	7/8"	0.7874"	SPx80 Quiet Poly	roller guides	—
A906S	3 1/4"	3/4"	1/2"	0.4724"	SPx80 Quiet Poly	Models C&D	18405
A906P	3 1/4"	3/4"	1/2"	0.4724"	HDx95 Heavy-Duty	roller guides	XELC-41

Roller Guide Components

Part Number	Description
EC-600-A	Spring
EC-600-B	Spring
EC-600-C	Hub Spring
EC-900-A	Guide Roller, 10" elsco ex02002
EC-900-A3	Adj. Stop Kit (set of 4) for Model C
EC-900-C3	Roller Guide Coverplate kit (Model B)
EC-900-C4	Roller Guide Coverplate kit (Model C)
EC-900-C6	Roller Guide Coverplate kit (Model D)
EC-900-G	Adj. Stop angle (set of 12pcs. ((Model B)
EC-900-H1	10" Roller Guide Assm. (Each)
EC-900-K	Wheel Stud
EC-900-X	Roller

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

**ME971****P-13787****M410M****M411M**

Rollers

Kone/Montgomery

New Durabond SPx^{80™}— quiet performance, long life

In-house manufacturing of Montgomery rollers ensures strict adherence to specifications.

Looking for a quiet guide roller? Adams SPx^{80™} Quiet Poly Durabond™ guide rollers give the quiet ride of rubber... plus these advantages:

- Last longer than rubber
- Stand up to petroleum products that invade hoistway and reduce roller life
- Resist ozone degradation

Durabond poly is noted for its durability, adhesion to the hub, and quiet running. A lot of other polyurethane formulations look like Durabond, but none perform like Durabond.

Adams HDx^{95™} Heavy-Duty Durabond® polyurethane is used for heavy-duty guide roller performance.

LFx^{70™} is the super-hard, low-friction Durabond poly formulation that you'll find on all Adams replacement door hanger rollers.

Part Number	Description	Poly Tire	Poly Color	OEM Part No.
M410M	Door hanger roller for MAC door operator; 3 ⁵ / ₈ "-O.D. polyurethane tire with ⁹ / ₃₂ " concave radius; includes ⁷ / ₁₆ -20 threaded axle stud with hex jam nut	LFx ⁷⁰	Red	P-31344 MAP-344
M411M	Door hanger roller for MAC door operator; 2 ⁷ / ₈ "-O.D. polyurethane tire with ⁹ / ₃₂ " concave radius; includes ⁷ / ₁₆ -20 threaded axle stud with hex jam nut	LFx ⁷⁰	Red	P-31341 MAP-341
ME971	Roller guide wheel for hydraulic elevators and escalators; precision-machined aluminum hub with 3 ¹⁵ / ₁₆ "-O.D. tire, ⁷ / ₈ "W; bearing I.D. = 0.7874"	HDx ⁹⁵	Clear	P-12963 P-12908
P-13787	Roller guide wheel 6.5" diam.			

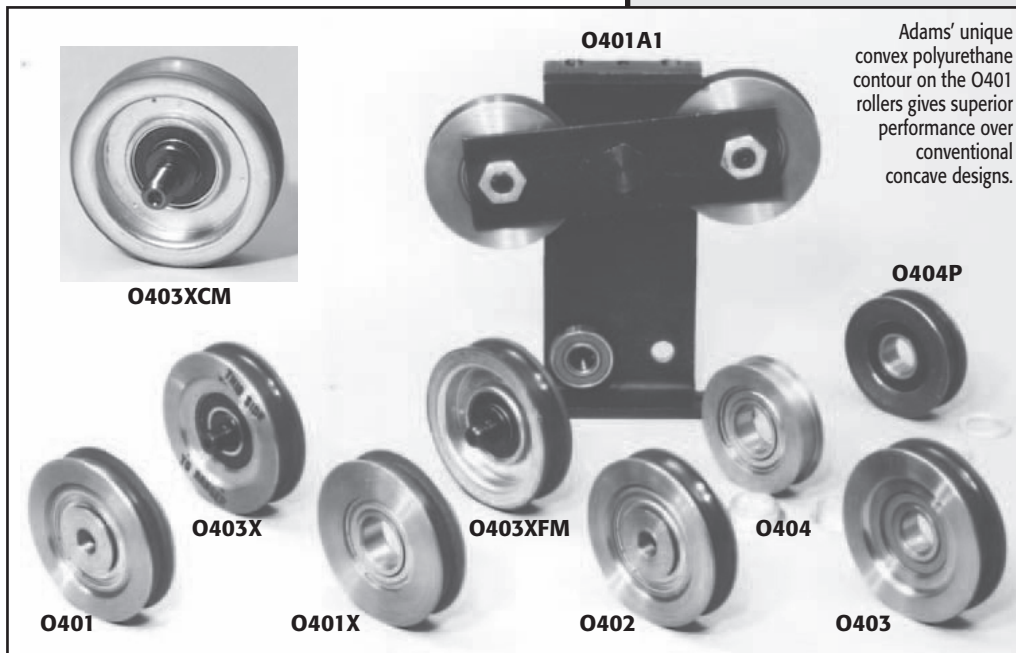
Color Key for Adams Poly

Red = LFx80 Low Friction
 Black = SPx80 Soft
 Clear = HDx95 Heavy Duty

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Rollers Otis



Part Number	Description	Roller Dimensions			Materials		Otis Part Number
		Diameter	Thickness	Bearing ID	Hub	Tire	
O401	Hanger roller with convex surface; for type AU & 6178A flat track hangers	3 1/4"	1 1/16"	0.500" (bushed)	Solid Steel	HDx ⁹⁵ ™ Poly	A456W1
O401HP	Same as O401, with low-friction hard poly	3 1/4"	1 1/16"	0.500" (bushed)	Solid Steel	LFx ⁷⁰ ™ Poly	A456W1
O401A1	Teeter-bar hanger with two O401 rollers and one O410 up-thrust roller; for heavy doors	3 1/4"	1 1/16"	0.500" (bushed)	Solid Steel	HDx ⁹⁵ ™ Poly	368203907
O401X	Hanger roller with convex tire surface; for Type "A" (6178A) hangers	3 1/4"	1 1/16"	0.9843"	Solid Steel	HDx ⁹⁵ ™ Poly	456W1
O402	Hanger roller for AU & 6178A hangers; concave roller surface	3 1/4"	1 1/16"	0.500"	Solid Steel	HDx ⁹⁵ ™ Poly	A456EA1
O402HP	Same as O402, with low-friction	3 1/4"	1 1/16"	0.500"	Solid Steel	LFx ⁷⁰ ™ Poly	A456EA1
O403	Hanger roller with 1 1/32" radius on concave surface	3 3/8"	1 3/16"	0.7874"	Solid Steel	HDx ⁹⁵ ™ Poly	456CX4
O403X	Hanger roller with eccentric axle stud, steel hub	3 3/8"	1 3/16"	n/a	Solid Steel	HDx ⁹⁵ ™ Poly	456DH1
O403XCM	Hanger roller, projection welded; eccentric axle has 1/2"-20 thread and 3/16" socket, machined hub	3 3/8"	1 3/16"	n/a	Machined	HDx ⁹⁵ ™ Poly	456DH2
O403XFM	Hanger roller, projection welded; eccentric axle has 1/2"-20 thread and 3/16" socket, machined hub	3 3/8"	3/4"	n/a	Machined	HDx ⁹⁵ ™ Poly	456EW1
O404	All-steel hanger roller for integral hoistway hanger	2 3/4"	1 1/16"	0.785"	Steel	Steel	456CC1
O404HP	Same as O404, with low-friction hard poly tire	2 3/4"	1 1/16"	0.785"	Steel	LFx ⁷⁰ ™ Poly	456CC1
O404P	Same as O404, with heavy-duty poly tire	2 3/4"	1 1/16"	0.785"	Steel	HDx ⁹⁵ ™ Poly	456CC1

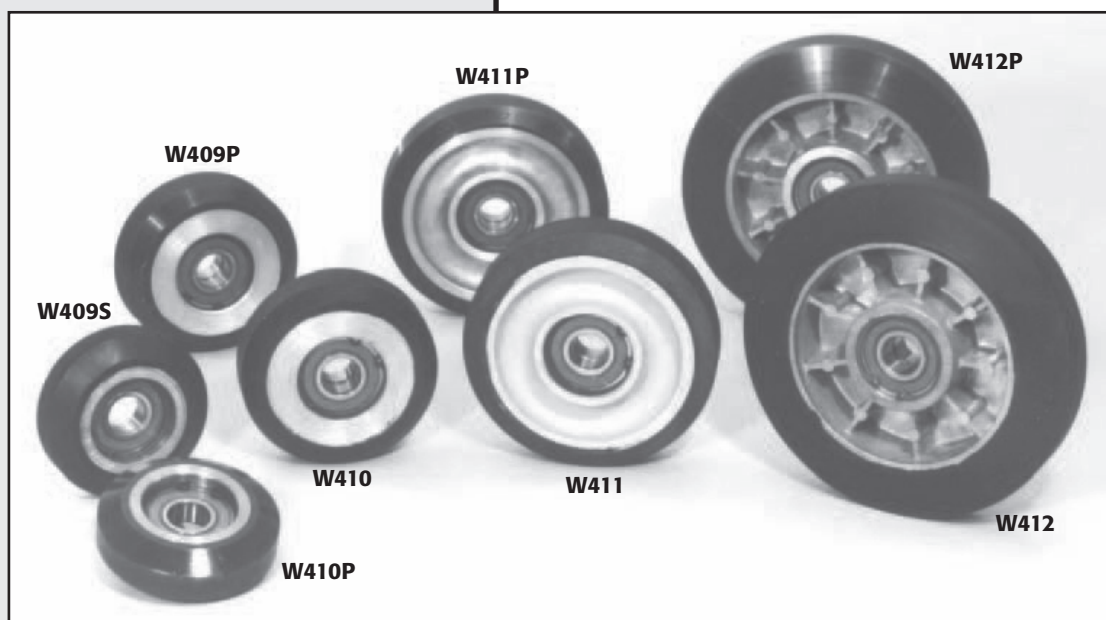
Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Rollers

Schindler/Westinghouse

Replacement Wheels for Westinghouse Guide Roller Assemblies



You can't get a quieter riding guide roller than Adams' SPx⁸⁰™ Quiet Poly. SPx⁸⁰ gives you the quiet ride you enjoy with rubber, plus these added advantages:

- Quiet Poly guide rollers last longer than rubber
- Quiet Poly stands up to petroleum products that invade the hoistway and reduce roller life
- Quiet Poly resists ozone degradation

Part Number	Description	Diameter	Width	Tire Material	Bearing Bore	Westinghouse Part Number
W409P	Steel-hub counterweight roller guide wheel	3"	1.000"	HDx ⁹⁵ ™ poly	0.6693"	144A277G02
W409S	Steel-hub counterweight roller guide wheel	3"	1.000"	SPx ⁸⁰ ™ Quiet Poly	0.6693"	144A277G02
W410	Cast aluminum roller guide wheel	3½"	1.250"	Rubber	0.6693"	M5594G04
W410P	Cast aluminum roller guide wheel	3½"	1.250"	HDx ⁹⁵ ™ poly	0.6693"	M5594G04
W411	Cast aluminum roller guide wheel	4½"	1.250"	Rubber	0.6693"	M5594G02
W411P	Cast aluminum roller guide wheel	4½"	1.250"	HDx ⁹⁵ ™ poly	0.6693"	M5594G02
W411S	Cast aluminum roller guide wheel	4½"	1.250"	SPx ⁸⁰ ™ Quiet Poly	0.6693"	M5594G02
W412	Cast aluminum roller guide wheel	6"	1.200"	Rubber	0.6693"	323C160G01
W412P	Cast aluminum roller guide wheel	6"	1.200"	HDx ⁹⁵ ™ poly	0.6693"	323C160G02
W412S	Cast aluminum roller guide wheel	6"	1.200"	SPx ⁸⁰ ™ Quiet Poly	0.6693"	323C160G02
W416	Guide roller (not pictured)	10¼"	1.250"	Rubber	0.6693"	M5594G05
146A988H01	Shaft for face roller of 627D989G03 RGS ASSY (not pictured)					
576B710H01	Shaft for face roller of 627D989G03 RGS ASSY (not pictured)					

Color Key for Adams Poly

Red = LFX80 Low Friction
 Black = SPx80 Soft
 Clear = HDx95 Heavy Duty

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Spirators Door Bumpers

Universal Standard- & Heavy-Duty Spirators

True universal mounting format in two long-lasting models

Choose from two models of reel-type door closers with universal hub design. Both models include retaining ring and nylon washer.

Heavy-duty Spirator

Comes complete with a heavy-duty rewind tension spring and heavy-duty cable terminal for use with heavy elevator doors.

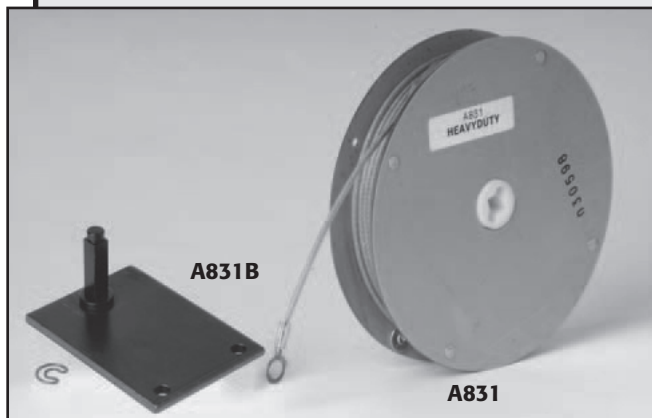
Standard-duty spirator

Works best with light- to middle-weight doors.

Square-Peg Mounting Bracket

This mounting bracket with "snake eyes" works with either model. It also mounts spirators from other manufacturers.

Part Number	Description
A831	5"-dia. heavy-duty spirator with heavy-duty rewind tension spring and cable terminal.
A832	5"-dia. standard-duty spirator w/nylon runner.
W832	6"-dia. standard-duty spirator w/nylon runner.
A831B	Mounting bracket for Adams and other spirators.



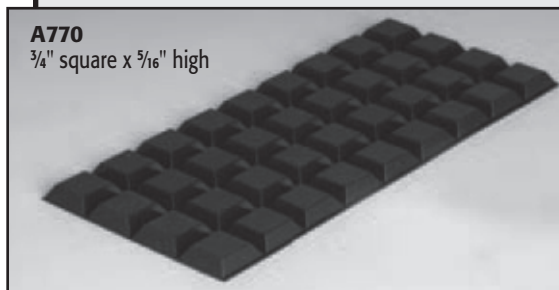
Door Bumpers

The economical way to silence closing elevator doors

Self-adhesive bumper pads attach to door jamb, and stay put. They take the hit of noisy doors as they close, and deaden the sound. No more metal against metal.

Sold in strips of 36 self adhesive bumpers. Just peel off from the backing strip and press into place.

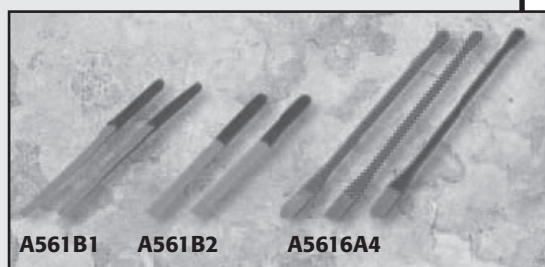
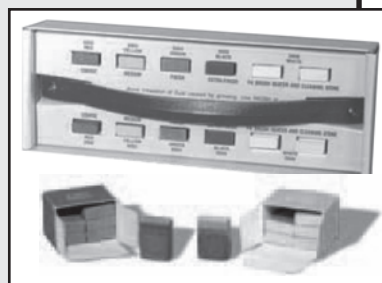
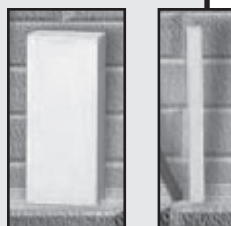
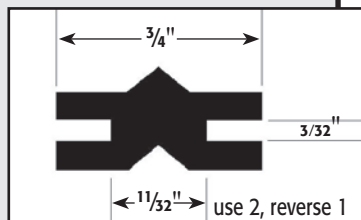
Part Number **A770**



A770
3/4" square x 5/16" high

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Adams Miscellaneous

Astragal

Makes door closings quieter; seals out light between doors. Flexible black rubber, reversing astragal for $\frac{3}{8}$ "-wide groove; install one on door, and one on jamb or opposite door. Eight-foot lengths; easily cut to size at job site.

Part Number **A853L**

Burnishing & Polishing Tools

Brush Seating Cleaning Stones

Part Number	Dimensions (L W H)	Grade	Qty./box
A5612A1	4 $\frac{3}{4}$ " x 2" x 1 $\frac{1}{4}$ "	Med. Soft	1
A5612A6	4 $\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ "	Fine hard	4

Commutator Treating Kit

Packs into a convenient storage box everything you need for thorough commutator maintenance:

- 2 each: coarse, medium, finish and x-finish
- 4 firm/hard seating stones
- 1 stone holder
- 1 storage case

Part Number **A5613A1**

Commutator Kit Replacement stones (6/pkg.):

- Part Number **A5614A1** Coarse
A5614A2 Medium
A5614A3 Finish
A5614A4 X-Finish
A5614A5 Firm/Hard Seating

Contact Burnishing Tools

The easy way to polish contacts and remove any non-conductive residual material for safe and reliable operation.

Part Number	Dimensions (L x W x Thickness)	Per pack
A561B1	4" x $\frac{3}{16}$ " x 0.007"	10
A561B2	3 $\frac{5}{8}$ " x $\frac{1}{4}$ " x 0.010"	10

Diamond Spatula Kit

Use premium, long-lasting, non-residual diamond spatulas, the most popular, longest lasting, and in the long run, most economical tools.

Part Number	Description
A5616A4	3-piece spatula kit, includes one each: Coarse-grit spatula (green handle) Medium-grit spatula (red handle) Fine-grit spatula (blue handle, grit on one side only)

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Adams Miscellaneous

Chimes, Electronic, with Timer

Replace the harsh, mechanical sound of floor landing bells with our pleasant-sounding electronic chime. Order as a retrofit unit, or specify it next time you install a hall or travelling lantern. Timer sounds once for "up" and twice for "down." All models include pressure-sensitive mounting pads and helpful wiring diagram. Match your voltage range to the models listed at right.

Dimensions: 4"W x 2 $\frac{3}{8}$ "H x $\frac{7}{8}$ "D

Part Number	Voltage/Description
CH024	20/40 VAC/VDC
ACH120	40/125 VAC/VDC
ACH024S	20/40 VAC/VDC; chimes once in both directions (unless controller can send a 2-stroke signal for down).
ACH120S	40/125 VAC/VDC; chimes once in both directions (unless controller can send a 2-stroke signal for down)

NOTE: Adams electronic chimes are UL recognized.

Emergency Light Unit & Components

Restore worn or damaged emergency light units with these service ready components.

Part Number	Description
A911	Emergency light unit, complete.
A911LL	Heavy-duty Lexan lens; 6 $\frac{3}{4}$ " x 2 $\frac{1}{2}$ " (not shown)
A911X6	2 lamp sockets with wiring harness, bayonet type.
A911X3	Rechargeable battery, 6 volts; 3 $\frac{3}{4}$ " x 6" x 1 $\frac{1}{2}$ "
A911X1	6V solid-state PCB with switch assembly, bracket, and wire leads; 5" x 5" x 2" deep.
A911AX	6V/240 Emergency light, PCB only.
A911X1A	6V/240 PCB with switch assembly.
A480L30	Replacement lamp for emergency light unit; 10/pkg.

Survivor® Buttons & Bases

Part Number	Description
AS451A	Contact Base with Lamp Holder (2NO)
AS451A-02	Contact Base for LEDs (2NO)
AS451C	Contact base with Lamp Holder (1NO/1NC)
AS458C2	Illuminated Button & Halo (no base)
AS458C6	Survivor®PLUS Complete Button Assembly, Illuminated, Stainless Steel (1NO/NC)

Position Indicator Lens Cap

Clear Lens Cap for Position Indicator Lens 146A560H05.

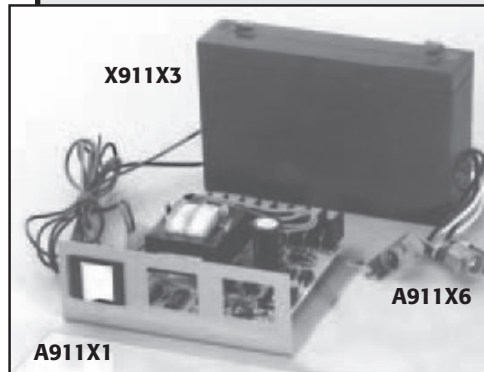
Part Number **W454BC1**



ACH024

Mini Buzzer

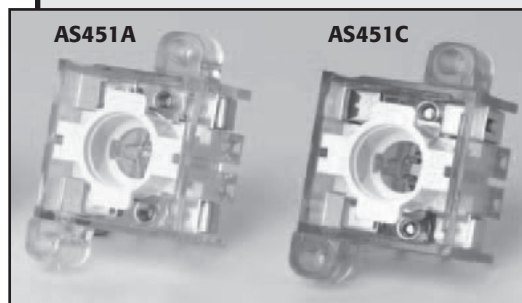
24VAC Mini Nudging Buzzer, Part Number **A924C**



X911X3

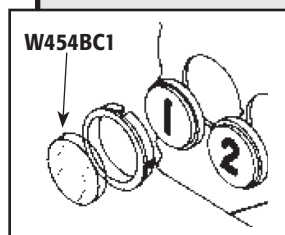
A911X6

A911X1



AS451A

AS451C



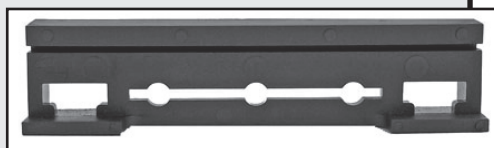
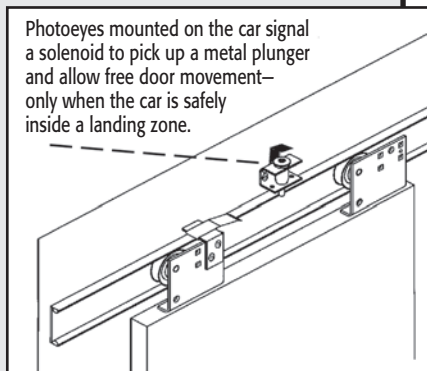
W454BC1

Questions? Answers at...

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Photoeyes mounted on the car signal a solenoid to pick up a metal plunger and allow free door movement—only when the car is safely inside a landing zone.



Adams Miscellaneous

HatchLatch® Electronic Door Restrictor

Prevents Unsafe Elevator Cab Openings

Comes standard with all the material you need to protect one elevator, up to five floors. To protect more than 5 floors, order additional reflective tape.

Here's how it works:

Reflective Tape You position pieces of reflective tape in the hatchway inside the landing zone and on the door operator.

First Photoeye When the first of the two photoeyes sees the tape in the hoistway, it senses that the elevator is inside the landing zone.

Second Photoeye When the second photoeye sees the tape on the door operator, it picks up a solenoid-controlled plunger.

Plunger The plunger rises out of the way, clearing the door roller or blocking bracket as the door opens.

No Exit! Zone Between landing zones, the photoeye senses no tape reflection and the plunger holds its door-blocking position.

Part Number	Description
A835A3	EDR Assembly w/Box (includes battery)
A835R2P	Reflective Tape, 2"x150' (for up to 75 floors)

Soft Stop "Anti-Chatter" Additive

This performance-improving fluid is a special friction modifier that enhances the flow characteristics of most hydraulic systems. It can relieve the "stick-slip" problem on noisy hydraulic cylinders. Not recommended for machines with common systems for hydraulic, transmission, and braking.

Part Number	Description
APO800QC	Adams Soft Stop Hydraulic Additive (32-oz. bottle, 12 quarts/case only)

Run/Stop Pit Switch

The Adams Run/Stop Pit Switch features a sturdy metal safety guard to help prevent unintentional start-up.

Meets ANSI A17.1, Rules 106.1f and 210.2e/2g. Even conforms to Rule 210.2e(4), not met by many other pit switches.

Part Number	Description
A913	Run/Stop pit switch, complete
A913X	Replacement toggle switch assembly.

Selector Tape Guide

Nylatron tape guide for W302 selector tape.

Part Number **W875**

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

BATTERIES

In this Section

Sealed Lead-Acid Batteries 2.2

Alkaline Batteries 2.3

Rechargeable Alkaline Batteries . 2.3



Questions? Answers at...

***Western US: 1-866 CED-ELEV
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***Eastern US: 1-866-253-2915
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***or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!***

Full line catalog available on request

Commonly Used Elevator Batteries

Sealed Lead-Acid Batteries

Part Number	Nominal Voltage	Nominal Capacity AH	Current @ 20-hr. rate mA	Length	Width	Height	Weight lbs. / kg.	Standard Terminals
PS-612	6	1.4	70	3.82	0.94	2.00	0.66/0.30	F1
PS-630	6	3.5	175	5.28	1.34	2.35	1.37/0.62	F1
PS-640	6	4.5	225	2.76	1.86	3.94	1.60/0.73	F1
PS-670	6	7.0	350	5.95	1.34	3.70	2.42/1.10	F1
PS-682	6	9.0	450	3.86	2.20	4.65	3.20/1.45	F1
PS-6100	6	12.0	600	5.95	2.00	3.70	4.30/1.95	F1 or F2
PS-6120FP	6	13.0	650	4.25	2.80	5.55	4.80/2.18	FP
PS-1212	12	1.4	70	3.78	1.69	2.04	1.20/0.54	F1
PS-1229	12	2.9	145	7.00	1.38	3.36	2.30/1.04	F1
PS-1250	12	5.0	250	3.54	2.76	3.98	3.50/1.59	F1 or F2
PS-1270	12	7.0	350	5.95	2.56	3.70	4.80/2.18	F1 or F2
PS-12120	12	12.0	600	5.95	3.86	3.70	7.92/3.59	F2
PS-12260F2	12	26	1300	6.54	6.88	4.95	18/8.18	F2
PS-12260NB	12	26	1300	6.54	6.88	4.95	18/8.18	NB

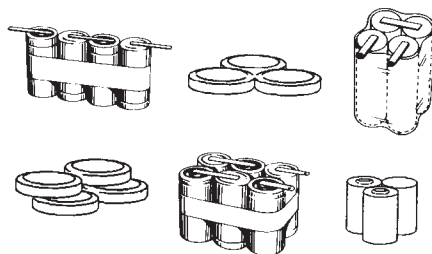
*Additional sizes available upon request.

Battery Packs & Button Cells

Part Number	Nominal Voltage	Nominal Capacity Ah	Length	Height	Description	Terminals
D/5	4.8	4.0	3.75	2.5	(5) D cells stacked 2 on 3	wire leads
D090302	4.8	2.2	5.75	1.25 dia	(4) 1/2 D cells stacked end to end	wire leads
JBS EA113AA541H0	6	150 mAh	3.42	.68 dia	(5) 1/3 AA cells stacked end to end	solder tabs
BR23AT2SP	3	1200 mAh	1.319	.669 dia	Panasonic Lithium	solder tabs
357	1.55	155 mAh			11.6mm dia x 5.42mm Button cell	n/a
CR2430	3	270 mAh			24mm dia x 3.0mm Button cell	n/a



SPECIAL CONFIGURATIONS AVAILABLE



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Alkaline Batteries

Ray-O-Vac Alkaline Batteries

Here is a new generation of alkaline batteries that protect the environment by having a mercury-free formula. Reformulated for better performance, these batteries are reliable and safe to use, because they are guaranteed not to leak. No other battery in the industry is more powerful.

Part Number	Description
AL-D	Size D, 6-pack
AL-C	Size C, 6-pack
AL-AA	Size AA, 8-pack
AL-AAA	Size AAA, 8-pack
AL-9V	9-volt, 6-pack



RAY-O-VAC

Rechargeable Alkaline

Part Number	Description
7132	Size D Renewal
7142	Size C Renewal
7154	Size AA Renewal
7244	Size AAA Renewal
PS1	Renewal 4-Pos. Charger, AA or AAA Batteries
PS2	Renewal Kit-PS3 w/ (4) D, (2) C, (4) AAA, (4) AA Batteries

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Notes



Questions? Answers at...
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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970
Full line catalog available upon request

CABLE & INSTALLATION HARDWARE



Questions? Answers at...

Western US: 1-866 CED-ELEV
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or 1-860-256-2211 • Fax 1-860-290-8970

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for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

3

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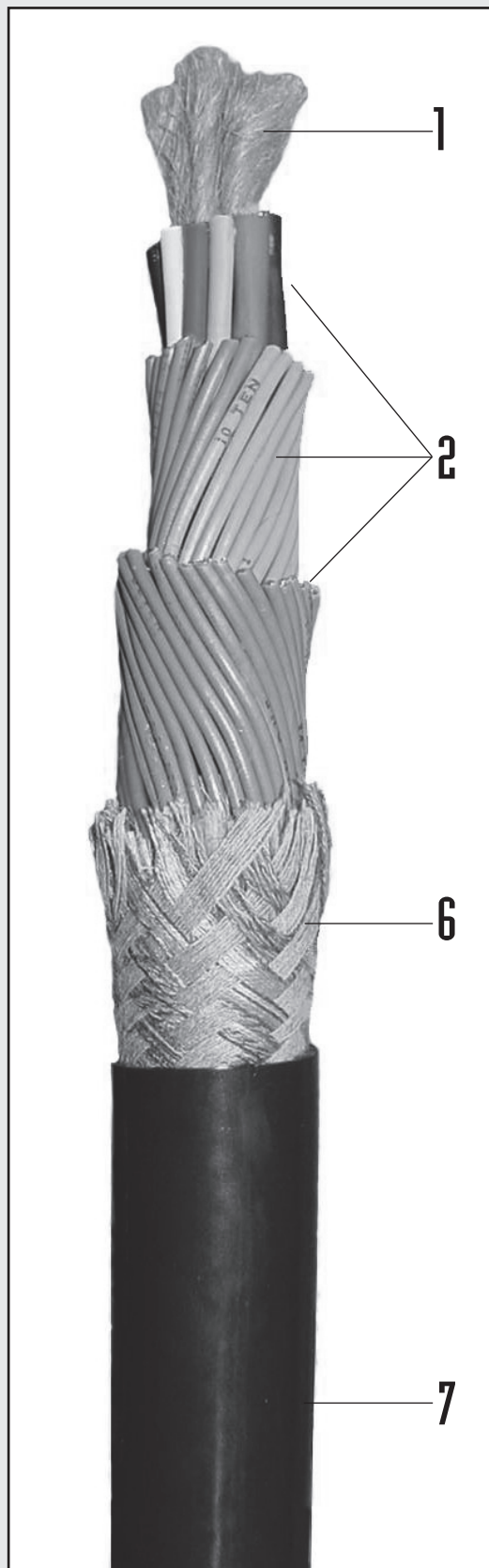
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Elevator Traveling Cable Type ETT-JC (Jute Core)

Type ETT-JC (Jute Center Core) Traveling cables are designed for installations in elevators, dumbwaiters, personnel and material hoists. The cables are used for suspended lengths of under 200 feet (61 meters) as specified by the NEC, UL, CSA, and Canadian Electrical Codes.

Construction

1. Center Jute Core

Fibrous-plyed jute center core, insulated conductors are cabled around.

2. Insulated Conductors

Soft-annealed, bunched stranded, bare copper per ASTM Standards B3 and B174. The conductors are insulated with flame retardant 60°C polyvinyl chloride and are rated at 300 volts in accordance with the requirements of UL 62, CSA C22.2 No. 49 and the appropriate articles of the NEC and Canadian Electrical codes. Each conductor is color and number-coded for easy identification.

3. Shielded Pairs (optional, not shown)

Two insulated No. 20 AWG soft-drawn bare copper conductors, PVC insulated, twisted with a bare drain wire. The laminated polyester and aluminum foil tape creates 100% shield coverage. The assembly has an overall colored PVC jacket and rated 300V.

4. Coaxial Cable (optional, not shown)

RG-6, 75 ohm and 300V rated coaxial cable.

5. Fillers (not shown)

Fibrous-plyed jute fillers to provide the cable a circular cross section, enhance torsion stability, and cushion the construction during flexing.

6. Braid

A tightly woven braid of cotton, rayon, or equivalent applied over the core to help maintain core shape, torsion balance and add mechanical strength.

7. Jacket

An overall jacket of polyvinyl chloride provides a smooth, flexible, abrasion-resistant covering complying with the flame test requirements UL 1581 and is CSA FT-1 flame rated.

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

Elevator Traveling Cable Type ETT-JC (Jute Core)

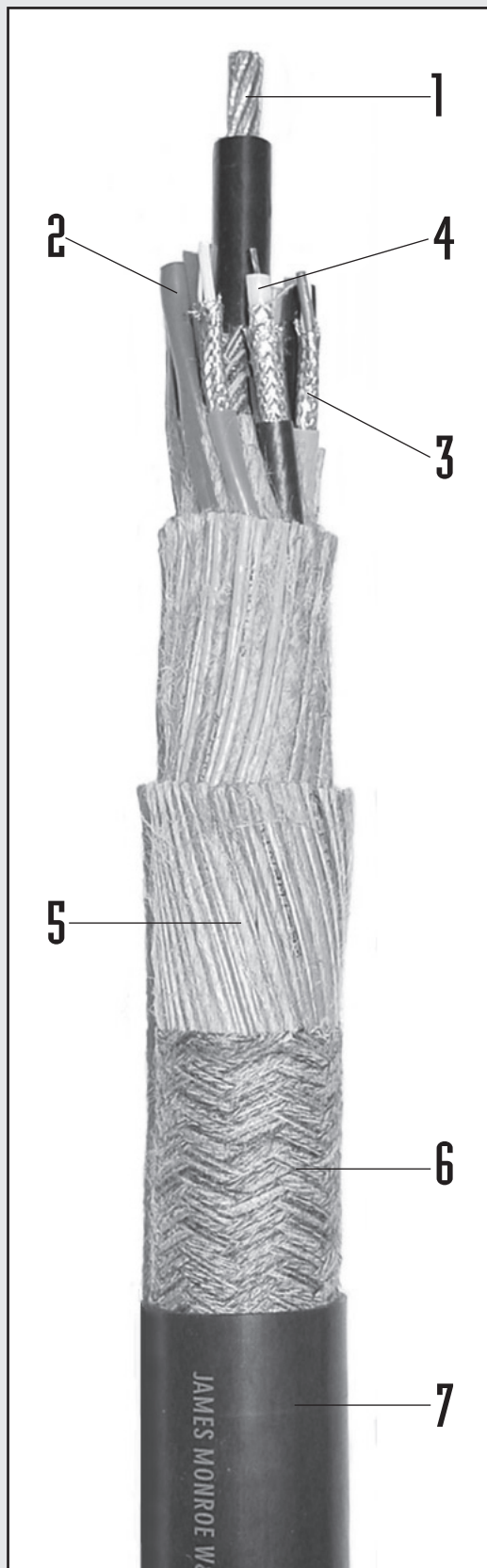
Specifications Type ETT-JC (Jute Core)

Part Number	Size and Number of Components			Outside Diameter		Weight	
	14 AWG (2.08mm ²)	18 AWG (.82mm ²)	20 AWG Shld Pair 2x(.51mm ²)	inches	mm	lbs./Mft	kg/km
TCJ0414	4			0.48	12.2	132	196
TCJ0418		4		0.36	9.1	68	101
TCJ0618SPL		6		0.43	10.9	96	143
TCJ1018		10		0.54	13.7	160	238
TCJ1618		16		0.64	16.3	219	326
TCJ2018		20		0.65	16.5	251	373
TCJ2418		24		0.73	18.5	304	452
TCJ3018		30		0.82	20.8	378	562
TCJ4018		40		0.92	23.4	475	707
TCJC27	3	20	2	0.94	23.9	466	693
TCJC33SPL	3	22	4	1.23	31.2	719	1070
TCJC37	4	31	1	1.19	30.2	672	1000
TCJC38W	12	18	4	1.25	31.8	806	1199
TCJC45	4	39	1	1.20	30.5	718	1068
TCJC45D	4	31	5	1.31	33.3	805	1198
TCJC51	4	45	1	1.20	30.5	757	1126
TCJC55D	4	41	5	1.39	35.3	917	1364
TCJC57	6	45	3	1.39	35.3	943	1403
TCJC59	4	49	3	1.22	31.0	872	1298
TCJC60	4	54	1	1.26	32.0	855	1272
TCJC66	4	56	3	1.33	33.8	956	1423
TCJC73	6	61	3	1.35	34.3	1042	1550
TCJC76		66	5	1.42	36.1	1017	1513
TCJC79SPL	7	64	4	1.45	36.8	1200	1786
TCJC86	4	76	3	1.39	35.3	1128	1678
TCJC96		86	5	1.42	36.1	1180	1756

The data herein is approximate and subject to normal manufacturing tolerances.
These specifications subject to change without notice.

(1) NEC Article 620-41 allows for unsupported lengths of up to 200 feet (61 meters) when travelling cables are suspended from the supports by means that automatically tighten around the cable when tension is increased.

Questions? Answers at...
Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211



Elevator Traveling Cable

Type ETT-SC (Steel Center Core)

Type ETT-SC (Steel Center Core) Traveling cables are designed for installations in elevators, dumbwaiters, personnel, and material hoists. They are recommended for suspended lengths of over 200 feet (61 meters) as specified by the NEC and Canadian Electrical Codes.

Construction

1. Center Steel Support Cable

Flexible, performance rated, galvanized steel wire rope support strand, manufactured to Military Specification MIL-W-83420. The steel core has 60C flame-retardant polyvinyl chloride insulation and a reinforcing tightly woven braid of cotton or rayon.

2. Insulated Conductors

Soft-annealed, bunched stranded, bare copper per ASTM Standards B3 and B174. The conductors are insulated with flame retardant 60°C polyvinyl chloride and are rated at 300 volts in accordance with the requirements of UL 62, CSA C22.2 No. 49 and the appropriate articles of the NEC and Canadian Electrical codes. Each conductor is color and number-coded for easy identification.

3. Shielded Pairs (optional)

Two insulated No. 20 AWG soft-drawn bare copper conductors, PVC insulated, twisted with a bare drain wire. The laminated polyester and aluminum foil tape creates 100% shield coverage. The assembly has an overall colored PVC jacket and rated 300V.

4. Coaxial Cable (optional)

RG-6, 75 ohm and 300V rated coaxial cable.

5. Fillers

Fibrous-plied jute fillers to provide the cable a circular cross-section, enhance torsion stability, and cushion the construction during flexing.

6. Braid

A tightly woven braid of cotton, rayon, or equivalent applied over the core to help maintain core shape, torsion balance and add mechanical strength.

7. Jacket

An overall jacket of polyvinyl chloride provides a smooth, flexible, abrasion-resistant covering complying with the flame test requirements UL 1581 and is CSA FT-1 flame rated.

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
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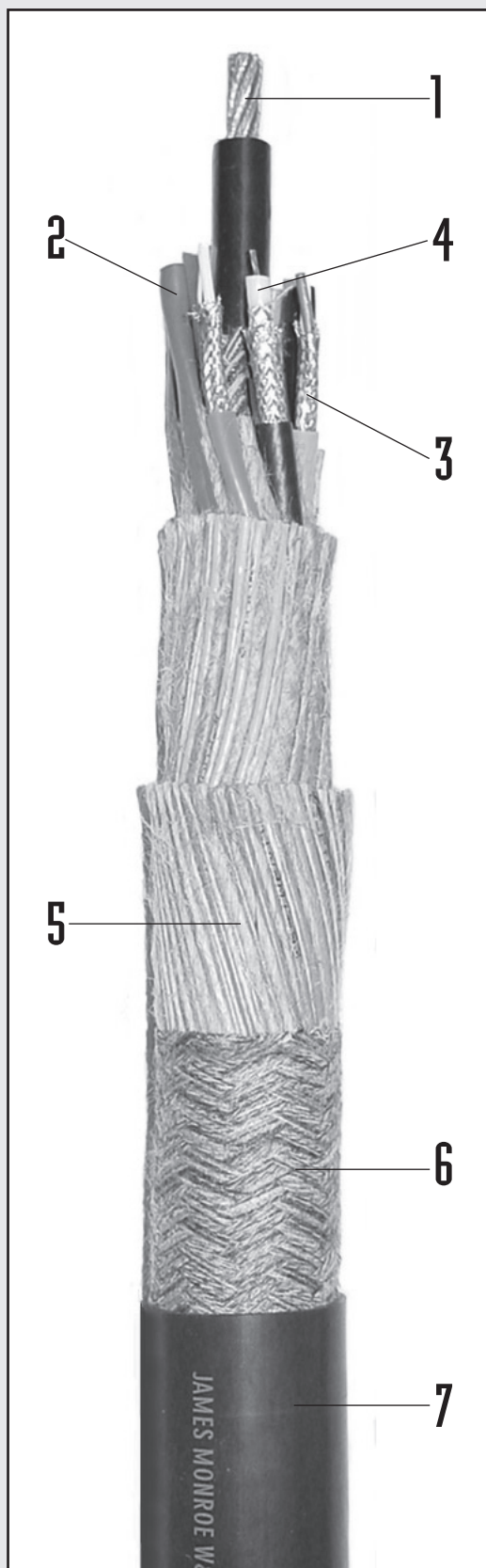
Elevator Traveling Cable Type ETT-SC (Steel Center Core)

Specifications Type ETT-SC (Steel Center Core)

Part Number	Size and Number of Components				Outside Diameter		Weight		Maximum Hanging Length		Steel Core Diameter	
	14 AWG (2.08mm ²)	18 AWG (.82mm ²)	20 AWG Shld Pair 2x(.51mm ²)	Coax 22 AWG (.36mm ²)	inches	mm	lbs./Mft	kg/km	feet	meters	inches	mm
TCS0414	4				0.57	14.5	166	247	900	274	3/32	2.4
TCS0814	8				0.70	17.8	293	436	900	274	1/8	3.2
TCS1514	15				0.93	23.6	487	725	900	274	1/8	3.2
TCS0618		6			0.49	12.4	124	185	900	274	3/32	2.4
TCS1018		10			0.54	13.7	178	265	861	262	3/32	2.4
TCS2018		20			0.70	17.8	286	426	804	245	3/32	2.4
TCS3018		30			0.82	20.8	417	620	900	274	1/8	3.2
TCS4018		40			0.93	23.4	534	795	874	266	5/32	4.0
TCS4518		45			0.93	23.6	543	808	900	274	1/8	3.2
TCS7518SPL		75			1.19	30.2	906	1348	773	236	5/32	4.0
TC SX05	3			2	1.00	25.4	460	684	900	274	5/32	4.0
TC SX14			6	2	1.06	26.9	470	848	900	274	5/32	4.0
TC SX18			8	2	1.38	25.4	483	719	900	274	5/32	4.0
TC SC20		14	3		0.95	24.1	376	559	612	187	3/32	2.4
TC SC27	4	21	1		0.96	24.4	500	744	900	274	5/32	4.0
TC SX28			13	2	1.35	24.4	500	744	900	274	5/32	4.0
TC SX36	17		8	3	1.61	40.9	1271	1891	900	274	1/4	6.4
TC SC37	4	31	1		1.18	30.0	700	1042	900	274	5/32	4.0
TC SC44	14	24	3		1.33	33.8	929	1382	753	230	5/32	4.0
TC SC45D	4	31	5		1.31	33.3	902	1342	776	237	5/32	4.0
TC SC48LO	4	30	7		1.32	31.1	836	1244	838	255	3/16	4.8
TC SC48HI	4	30	7		1.32	31.1	836	1244	838	255	3/16	4.8
TC SC51	4	45	1		1.20	30.5	797	1186	878	268	5/32	4.0
TC SX53	4	45	1	2	1.34	34.0	985	1466	711	217	5/32	4.0
TC SC56	6	48	1		1.20	30.5	847	1260	826	252	5/32	4.0
TC SX57	4	40	6	1	1.53	38.9	1144	1702	612	187	5/32	4.0
TC SC58LO	4	40	7		1.51	38.4	1125	1674	622	190	5/32	4.0
TC SC58HI	4	40	7		1.51	38.4	1125	1674	622	190	5/32	4.0
TC SC59	4	49	3		1.22	31.0	885	1317	791	241	5/32	4.0
TC SC60	7	27	13		1.58	40.1	1289	1918	900	274	1/4	6.4
TC SX61	7	27	13	1	1.65	41.9	1373	2043	900	274	1/4	6.4
TC SC64	22	30	6		1.61	40.9	1425	2120	900	274	1/4	6.4
TC SC71	6	61	2		1.50	38.1	1140	1696	614	187	5/32	4.0
TC SC74	20	38	8		1.54	39.1	1426	2122	491	150	5/32	4.0
TC SX750	20	38	8	1	1.58	40.1	1472	2190	900	274	1/4	6.4
TC SC75	4	69	1		1.38	35.1	1056	1571	663	202	5/32	4.0
TC SX77	4	69	1	2	1.64	41.7	1315	1957	532	162	5/32	4.0
TC SX77S	4	60	6	1	1.52	38.6	1269	1888	900	274	1/4	6.4
TC SC81	8	59	7		1.60	40.6	1336	1988	524	160	5/32	4.0
TC SC90	6	80	2		1.46	37.1	1262	1878	555	169	5/32	4.0
TC SC94	12	70	6		1.68	42.7	1663	2475	900	274	1/4	6.4
TC SC96		86	5		1.42	36.1	1215	1808	576	176	5/32	4.0

The data herein is approximate and subject to normal manufacturing tolerances.
These specifications subject to change without notice.

Questions? Answers at...
Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211



Elevator Traveling Cable Type ETT-C (Communications)

Type ETT-C (Communications Steel Center Core) Traveling cables are designed to complement existing or new communications cable installation and designed to track with other cables within the hoistway.

Construction

1. Center Steel Support Cable

Flexible, performance rated, galvanized steel wire rope support strand, manufactured to Military Specification MIL-W-83420. The steel core has polyvinyl chloride insulation and a reinforcing tightly woven braid of cotton.

2. Insulated Conductors (optional)

Soft-annealed, bunched stranded, bare copper per ASTM Standards B3 and B174. The conductors are insulated with flame retardant 60°C polyvinyl chloride and are rated at 300 volts in accordance with the requirements of UL 62, CSA C22.2 No. 49 and the appropriate articles of the NEC and Canadian Electrical codes. Each conductor is color- and number-coded for easy identification.

3. Shielded Pairs

Two insulated No. 20 AWG soft-drawn bare copper conductors, PVC insulated, twisted with a bare drain wire. The laminated polyester and aluminum foil tape creates 100% shield coverage. The assembly has an overall colored PVC jacket and rated 300V.

4. Coaxial Cable

RG-6, 75 ohm and 300V rated coaxial cable.

5. Fillers

Fibrous-plied jute fillers to provide the cable a circular cross section, enhance torsion stability, and cushion the construction during flexing.

6. Braid

A tightly woven braid of cotton, rayon, or equivalent is applied over the core to help maintain core shape, torsion balance and add mechanical strength.

7. Jacket

An overall jacket of polyvinyl chloride provides a smooth, flexible, abrasion-resistant covering complying with the flame test requirements UL 1581 and is CSA FT-1 flame rated.

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
 Eastern US: 866-253-2915 or 860-256-2211

Type ETT-C (Communications) Shielded Pairs

Specifications Type ETT-C (Communications)

Jute Core

Part Number	Number of Components		Outside Diameter		Weight		Maximum Hanging Length			
	20 AWG Shld Pair 2x(.51 mm ²)	Coax 20 AWG (.36 mm ²)	inches	mm	lbs./Mft	kg/km	feet	meters		
TCJCC0420SH	4		0.79	20.1	170	253	402	123		

Steel Core

Part Number	Size and Number of Components			Outside Diameter		Weight		Maximum Hanging Length		Steel Core Diameter	
	18 AWG Sh Pair (0.8 mm ²)	20 AWG Sh Pair 2x(.51 mm ²)	Coax 20 AWG (.36 mm ²)	inches	mm	lbs./Mft	kg/km	feet	meters	inches	mm
TCSCC0220SH		2		0.77	19.6	200	298	900	274	3/32	2.4
TCSCC0420SH		4		0.77	19.6	330	491	900	274	1/8	3.2
TCSCC0620SH		6		0.85	21.6	365	543	900	274	1/8	3.2
TCSCC0820SH		8		1.00	25.4	490	729	900	274	5/32	4.0

The data herein is approximate and subject to normal manufacturing tolerances.
These specifications subject to change without notice.

Shielded Pairs

Two insulated No. 20 AWG soft-annealed, bare copper conductors are twisted with an uninsulated drain wire. The laminated polyester and aluminum foil tape creates a 100% shield coverage. The assembly is covered with an overall colored PVC jacket.

Conductors: No. 20 AWG (10/.010") soft bare copper
(.51 mm²–10/.254 mm)

Nominal D.C. Resistance: 10.4 ohms/1000 ft.
(34.1 ohms/Km)

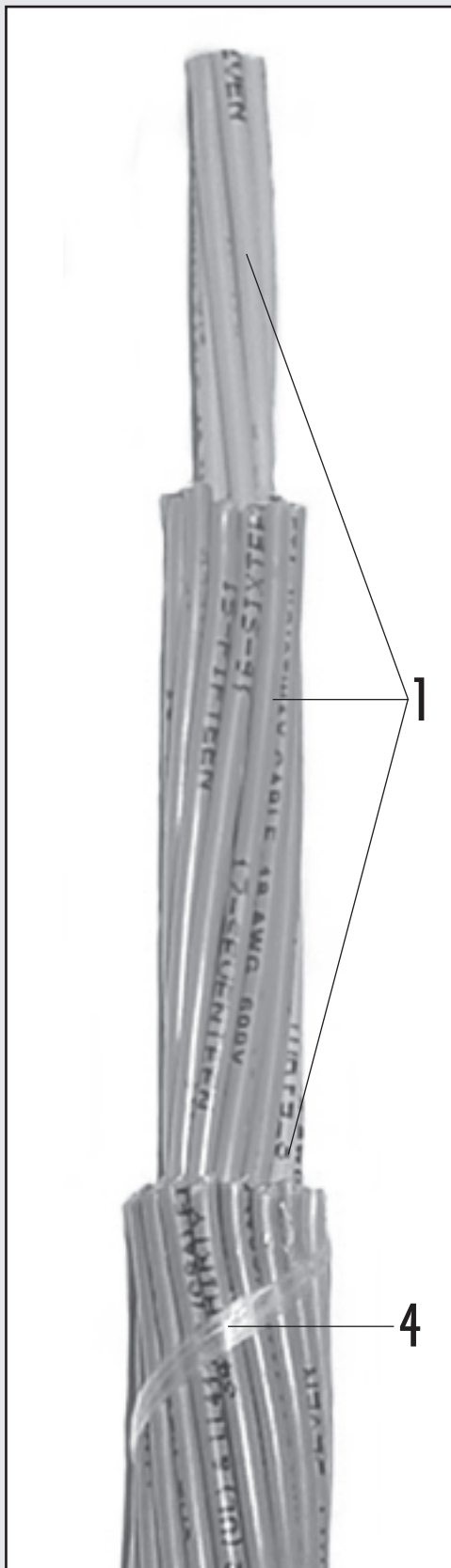
Nominal Capacitance:

Between conductors: 40 pF/ft. (131 pF/m)

Between 1 conductor and other conductor connected to shield: 68 pF/ft. (223 pF/m)

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211



Elevator Hoistway Cable

600V

600V Hoistway cables permit faster and easier interconnection of hoistway control and signaling devices. The insulated, identified conductors, cabled together and bound with a strong spiral binder for quick removal for breakout connections.

Construction

1. Insulated Conductors

Soft-drawn, solid or stranded, bare copper per ASTM Standards B3 and B174. The conductors are insulated with flame retardant 60°C polyvinyl chloride and are rated at 600 volts in accordance with the requirements of UL 62, CSA C22.2 No. 49 and the appropriate articles of the NEC and Canadian Electrical codes. Each conductor is color and number-coded for easy identification.

2. Shielded Pairs (optional, not shown)

Two insulated No. 20 AWG soft-drawn bare copper conductors, PVC insulated, twisted with a bare drain wire. The laminated polyester and aluminum foil tape creates 100% shield coverage. The assembly has an overall colored PVC jacket and rated 300V.

3. Coaxial Cable (optional, not shown)

RG-6, 75 ohm and 300V rated coaxial cable.

4. Binder

High-strength synthetic fiber applied over the core to help maintain core shape, torsion balance and add mechanical strength.

5. Jacket (Optional, not shown)

An optional flame retardant polyvinyl chloride (PVC) jacket is available upon request and in accordance with UL 1084 and CSA FT-1.

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

Elevator Hoistway Cable 600V

Stranded Hoistway—600V

Part Number	Size and Number of Components				Outside Diameter		Weight	
	14 AWG (2.08mm ²)	18 AWG (.82mm ²)	20 AWG Shld Pair 2x(.51mm ²)	COAX	inches	mm	lbs./Mft	kg/km
HC0314	3				0.31	7.9	59	88
HC0814SPL	8				0.50	12.7	158	228
HC1414	14				0.63	16.0	276	399
HC0418		4			0.27	6.9	41	59
HC0418SPL		4			0.27	6.9	41	59
HC0718		7			0.34	8.6	72	100
HC1018		10			0.43	10.9	103	144
HC1218		12			0.46	11.7	119	172
HC1418		14			0.49	12.4	144	203
HC1618		16			0.53	13.5	165	238
HC1918		19			0.56	14.2	195	274
HC2118SPL		21			0.65	16.5	215	303
HC2418		24			0.66	16.8	307	349
HC3018		30			0.72	18.3	380	432
HC3718		37			0.78	19.8	380	566
HC3718SPL		37			0.78	19.8	380	566
HC4218		42			0.84	21.3	432	643
HC6118		61			0.98	24.9	625	930
HCC39	4	35			0.85	21.6	427	635
HCC42	14	24	2		0.96	24.4	599	891
HCC49	4	45			0.98	24.9	530	789
HCC57	4	40	6	1	1.05	26.7	648	936
HCC62	4	58			1.07	27.2	658	979
HCC71	6	61	2		1.18	30.0	816	1214

The data herein is approximate and subject to normal manufacturing tolerances.
These specifications are subject to change without notice.

*Cables with SPL designation have a special numbering sequence
and/or conductor color arrangement:

HC0814SPL: non-standard conductor colors: #1/green; #2-#4/white; #5-#8/black

HC2118SPL: conductors are numbered 32 to 52

HC3718SPL: conductors are numbered 38 to 74

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

Stationary Wiring Shielded Pairs

Audio and Communication

300V Audio systems requiring circuit isolation, data control, and process control computer systems.

Construction

Single and Multi-paired, individually shielded per UL 2464, AWM, CL2 and CSA 300V 80C

Insulated Conductors:

Composed of 20 AWG stranded tinned copper, insulated with 80°C semi-rigid polyvinyl chloride, shielded with polyester/aluminum tape for 100% coverage over each pair, 22awg stranded tinned copper drain wire under the shield

Jacket:

Outer sheath is a chrome polyvinyl chloride (PVC) that provides a smooth, wear-resistant surface.

Stationary Wiring Shielded Pairs

300 Volt/Jacketed/for Audio and Data Communications

Part Number	Number of Components		Outside Diameter		Weight	
	20 AWG PR 2x(.51mm ²)		inches	mm	lbs./Mft	kg/km
M13141	1		0.22	5.5	29	43
M13142	2		0.23	5.8	34	51
M13143	3		0.30	7.6	52	77
M13144	4		0.32	8.1	64	95
M13146	6		0.38	9.7	87	130
M13149	9		0.45	11.4	132	196
M13152	12		0.50	12.7	169	251
M13155	15		0.60	15.2	225	335

Color Codes

1 Pair = Red/White	10 Pair = Red/Blue
2 Pair = Black/White	11 Pair = Red/Yellow
3 Pair = Black/Green	12 Pair = Red/Brown
4 Pair = Black/Blue	13 Pair = Red/Orange
5 Pair = Black/Yellow	14 Pair = Green/White
6 Pair = Black/Brown	15 Pair = Green/Blue
7 Pair = Black/Orange	
8 Pair = Red/White	
9 Pair = Red/Green	

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

Compensating Cable

Compensating Cable is designed to reduce sway and provide a dampening effect to provide for smooth operation at temperatures between -15°C to +60°C. For use in the US, in elevators with rated speeds of 700 ft/min (3.56 m/sec) or less.

Construction

1. Chain

Low-carbon, electrically-welded proof coil chain. Each link is proof tested at two times the working load limit.

2. Inner Insulation (not shown)

Polyvinyl chloride insulation (PVC) extruded to form a round cross-section.

3. Jacket

A 60°C flame-retardant polyvinyl chloride (PVC) jacket designed to reduce oxidation, weathering, chemical and flame resistant.

Pre-stripped Compensating Cable is available.

Call CED for details.

Part Number	Cable Weight lb./ft. • kg/m	Cable Nom. O.D. inches • mm	Max. Hang Length feet • meters	Rec. Nom. Loop Width inches • mm
CC10	1.0 • 1.5	1.15 • 29	600 • 183	24 • 610
CC15	1.5 • 2.2	1.36 • 35	600 • 183	24 • 610
CC20	2.0 • 3.0	1.50 • 38	600 • 183	26 • 660
CC25	2.5 • 3.7	1.63 • 41	600 • 183	26 • 660
CC30	3.0 • 4.5	1.77 • 45	600 • 183	26 • 660
CC35	3.5 • 5.2	1.91 • 49	600 • 183	27 • 690
CC40	4.0 • 6.0	2.03 • 52	600 • 183	27 • 690

CED can help you determine which size of Compensating Cable to use. Call us and have the following information ready:

- 1) Number of hoist ropes per car
- 2) Outer diameter of the hoist ropes
- 3) Stranding of the hoist ropes (i.e. 8 x 19, 8 x 25...)
- 4) Car roping (i.e. 1:1, 2:1, other...)
- 5) Number of cables per car
- 6) Length of cable needed



Questions? Answers at...
Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

Coaxial

Inner Conductor: No. 20 AWG

(6 strands of .010" tinned copper around
1 strand of .010" tinned copper-covered steel)

Nominal D.C. Resistance: 16.2 ohms/1000 ft.
(53 ohms/Km)

Dielectric: Cellular polypropylene

Nominal Impedance: 75 ohms

Nominal Capacitance: 18 pF/ft. (59 pF/m)

Nominal Velocity of Propagation: 78%

Shield: 85% coverage copper over a laminated
polyester and aluminum foil for 100% coverage

Nominal D.C. Resistance:
8.3 ohms/1000 ft. (27 ohms/Km)

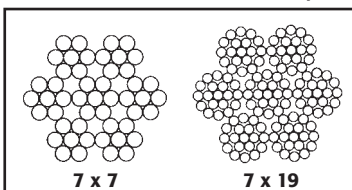
Nominal Attenuation:

MHz	dB/100 ft.	dB/100 m
1	0.4	1.3
5	0.8	2.6
10	1.0	3.3
50	2.1	6.9
100	3.0	9.8

Steel Core for Elevator Traveling Cable

The steel support cables utilized in elevator traveling cables are flexible or extra flexible constructions specifically designed and selected for their high strength, resistance to fatigue and minimum stretch characteristics.

Manufactured to U.S. military specification MIL-W-83420, the individual wires are fully preformed and galvanized to provide maximum service life.



Inches	Diameter		Breaking Strength		Weight
	Dec. In. • mm	Construction	lbs. • kg	lbs/Mft • kg/km	
3/32	.0938 • 2.381	7x7	920 • 417	16 • 24	
1/8	.1250 • 3.175	7x19	2000 • 907	29 • 43	
5/32	.1563 • 3.969	7x19	2800 • 1270	45 • 67	
3/16	.1875 • 4.763	7x19	4200 • 1905	65 • 97	
1/4	.2500 • 6.350	7x19	7000 • 3175	110 • 164	
5/8	.3750 • 9.525	7x19	14400 • 6532	243 • 362	

Elevator Cable Technical Information

Color Code Chart

Gauge	Cond. Number	Color	Pr. Color
14 AWG	1	Black	N/A
	2	White	N/A
	3	Green	N/A
	4-10	Lavender	N/A
	11-20	Orange	N/A
16 AWG or	1-10	Yellow	N/A
	11-20	Orange	N/A
18 AWG or	21-30	Tan	N/A
	31-40	Blue	N/A
20 AWG	41-50	Red	N/A
	51-60	Gray	N/A
	61-70	Black	N/A
	71-80	Pink	N/A
	81-90	Brown	N/A
	91-100	Purple	N/A
Shielded Pairs	1	Blue	Red-White
	2	Purple	Red-White
	3	Black	Red-White
	4	Orange	Red-White
	5	Yellow	Red-White
	6	White	Red-White
	7	Brown	Red-White
	8	Green	Red-White
	9	Blue	Black-White
	10	Purple	Black-White
	11	Black	Black-White
	12	Orange	Black-White
	13	Yellow	Black-White
	14	White	Black-White
	15	Brown	Black-White
	16	Green	Black-White
Coaxial	1	Black	N/A
	2	Black/White	N/A

Metric Cross-Reference

Wire Size		Stranding	
AWG	mm2	#/Diam. in.	#/Diam. mm
14	2.080	41/.010"	41/.254
16	1.310	26/.010"	26/.254
18	0.823	16/.010"	16/.254
20	0.519	10/.010"	10/.254
22	0.348	7/.010"	7/.254

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

Cable Installation Kits, Damping Devices

Compensating Cable Installation Kits

Each installation hardware kit includes:

2 Support Brackets (includes grade 8 nut, bolts, heavy duty cable TIE, lockwashers and hardened washers), 1 U-bolt (includes nuts and washers), 1 S-hook, 1 heavy duty grip and electrical tape

For safe and economical installation, when used as recommended, this system will provide you with safe operation of your compensating cable. An installation guide is provided with each kit.

Part Number	For Use on Cable	S-hook Part Number	Grip Part Number	3/4" Electrical Tape Part Number
CC10KIT	CC10	SH1	024-20-1504	MMM 33+
CC15KIT	CC15	SH3	024-20-1470	MMM 33+
CC20KIT	CC20	SH3	024-20-1510	MMM 33+
CC25KIT	CC25	SH6	024-20-1510	MMM 33+
CC30KIT	CC30	SH6	024-20-1499	MMM 33+
CC35KIT	CC35	SH6	024-20-1499	MMM 33+
CC40KIT	CC40	SH6	024-20-1542	MMM 33+

SteadySway™ Damping Device Kit

Maintenance-free, self-lubricating damping device for compensating cable on elevators with rated speeds up to 450 fpm. Field-proven to reduce cable wear, compared to other similar devices

Part Number **SS1** Steady Sway Kit

SteadyRoller™ Damping Device Kit

Compact, maintenance-free damping device with self-lubricating, free-spinning rollers for elevator compensating cable. The device has four sturdy, vibration-resistant corner posts and a support bracket that keeps the cable tracking smoothly without pinching, and provides the most protection against wear.

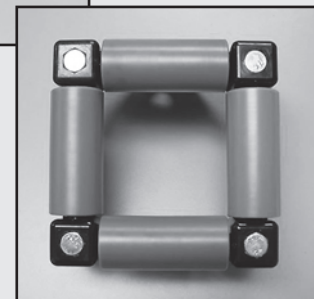
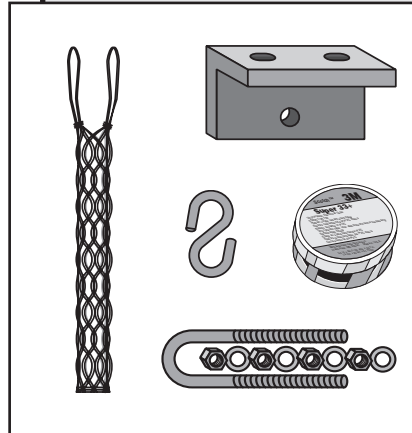
Part Number **SR1-DSCN911** SteadyRoller

PhlexGrip™ Cable Hanging Support Bracket

The fastest and easiest method for hanging steel-supported, elevator traveling cable. The support device is specifically designed for flexible steel rope and provides a support point for cable pre-hanging and/or hoisting the cable into position. The cable and support device can be adjusted and even removed from the support bracket without ever having to cut the cable's steel support.

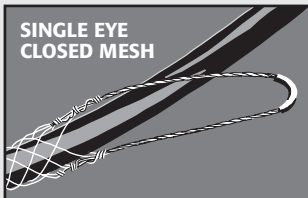
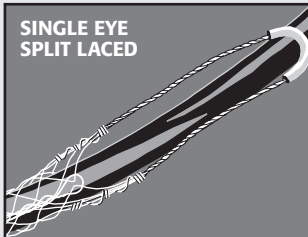
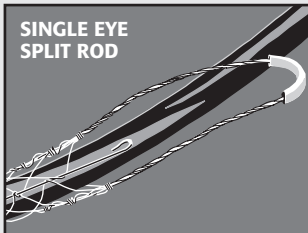
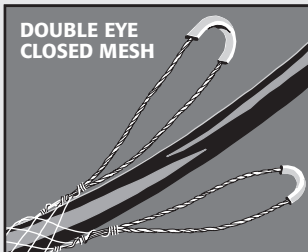
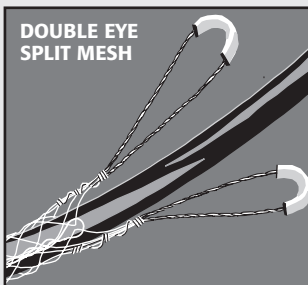
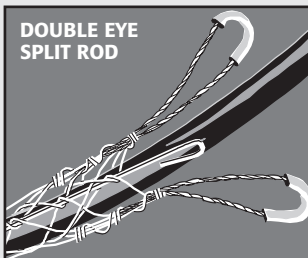
Part Number **TCSBT**

Traveling Cable Support Bracket for 5/32 Steel Cable



Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

**SINGLE EYE
CLOSED MESH**

**SINGLE EYE
SPLIT LACED**

**SINGLE EYE
SPLIT ROD**

**DOUBLE EYE
CLOSED MESH**

**DOUBLE EYE
SPLIT MESH**

**DOUBLE EYE
SPLIT ROD**


Kellems® Grips—Tinned Bronze

Single Eye Design/Single Weave—Closed Mesh & Split Rod

Part Number Closed Mesh	Part Number Split Laced	Cable Dia. Range inches • cm	Approx. Breaking Wt. lbs • kg	Eye Length inches • cm	Nom. Mesh Length inches • cm
022-01-013	022-02-013	.50 to .62 • 1.27 to 1.57	530 • 240	7 • 17.8	10 • 25.4
022-01-014	022-02-014	.63 to .74 • 1.60 to 1.88	790 • 358	8 • 20.3	10 • 25.4
022-01-015	022-02-015	.75 to .99 • 1.91 to 2.51	1020 • 463	8 • 20.3	13 • 33.0
022-01-017	022-02-017	1.00 to 1.24 • 2.54 to 3.15	1610 • 730	9 • 22.9	14 • 35.6
022-01-018	022-02-018	1.25 to 1.49 • 3.18 to 3.78	1610 • 730	10 • 25.4	15 • 38.1
022-01-019	022-02-019	1.50 to 1.74 • 3.81 to 4.42	1610 • 730	12 • 30.5	17 • 43.2
022-01-020	022-02-020	1.75 to 1.99 • 4.45 to 5.05	2150 • 975	14 • 35.6	19 • 48.3

Single Eye Design/Single Weave—Split Rod

Part Number	Cable Dia. Range inches • cm	Approx. Breaking Wt. lbs • kg	Eye Length inches • cm	Nom. Mesh Length inches • cm
022-03-013	.50 to .62 • 1.27 to 1.57	530 • 240	7 • 17.8	8.5 • 21.6
022-03-014	.63 to .74 • 1.60 to 1.88	790 • 358	8 • 20.3	8.5 • 21.6
022-03-015	.75 to .99 • 1.91 to 2.51	1020 • 463	8 • 20.3	10.5 • 26.7
022-03-017	1.00 to 1.24 • 2.54 to 3.15	1610 • 730	9 • 22.9	12.5 • 31.7
022-03-018	1.25 to 1.49 • 3.18 to 3.78	1610 • 730	10 • 25.4	14.5 • 36.8
022-03-019	1.50 to 1.74 • 3.81 to 4.42	1610 • 730	12 • 30.5	15.5 • 39.4
022-03-020	1.75 to 1.99 • 4.45 to 5.05	2150 • 975	14 • 35.6	16.5 • 41.9

Double Eye Design/Single Weave—Closed Mesh & Split Laced

Part Number Closed Mesh	Part Number Split Laced	Cable Dia. Range inches • cm	Approx. Breaking Wt. lbs • kg	Eye Length inches • cm	Nom. Mesh Length inches • cm
022-01-001	022-02-001	.50 to .62 • 1.27 to 1.57	530 • 240	4 • 10.2	10 • 25.4
022-01-002	022-02-002	.63 to .74 • 1.60 to 1.88	530 • 240	4 • 10.2	10 • 25.4
022-01-003	022-02-003	.75 to .99 • 1.91 to 2.51	1020 • 463	4 • 10.2	13 • 33.0
022-01-005	022-02-005	1.00 to 1.24 • 2.54 to 3.15	1610 • 730	5 • 12.7	14 • 35.6
022-01-006	022-02-006	1.25 to 1.49 • 3.18 to 3.78	1610 • 730	5 • 12.7	15 • 38.1
022-01-007	022-02-007	1.50 to 1.74 • 3.81 to 4.42	1610 • 730	5 • 12.7	17 • 43.2
022-01-008	022-02-008	1.75 to 1.99 • 4.45 to 5.05	2150 • 975	6 • 15.2	19 • 48.3

Double Eye Design/Single Weave—Split Rod

Part Number	Cable Dia. Range inches • cm	Approx. Breaking Wt. lbs • kg	Eye Length inches • cm	Nom. Mesh Length inches • cm
022-03-001	.50 to .62 • 1.27 to 1.57	790 • 358	4 • 10.2	8.5 • 21.6
022-03-002	.63 to .74 • 1.60 to 1.88	790 • 358	4 • 10.2	8.5 • 21.6
022-03-003	.75 to .99 • 1.91 to 2.51	1020 • 463	4 • 10.2	10.5 • 26.7
022-03-005	1.00 to 1.24 • 2.54 to 3.15	1610 • 730	5 • 12.7	12.5 • 31.7
022-03-006	1.25 to 1.49 • 3.18 to 3.78	1610 • 730	5 • 12.7	14.5 • 36.8
022-03-007	1.50 to 1.74 • 3.81 to 4.42	1610 • 730	5 • 12.7	15.5 • 39.4
022-03-008	1.75 to 1.99 • 4.45 to 5.05	2150 • 975	6 • 15.2	16.5 • 41.9

Component Specifications

These grips are intended for low rise installations only! Listed breaking strengths should not be loaded more than 25% to ensure a four-to-one safety factor. To maintain original grip set, the base of all grips should be secured with vinyl tape.

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
 Eastern US: 866-253-2915 or 860-256-2211

Kellems® Grips—Stainless Steel

Single Eye Design/Single Weave/Split Rod

Part Number	Cable Dia. Range inches • cm	Approx. Breaking Wt. lbs • kg	Eye Length inches • cm	Nom. Mesh Length inches • cm
024-03-014	.63 to .74 • 1.60 to 1.88	2000 • 908	8 • 20.3	8.5 • 21.6
024-03-015	.75 to .99 • 1.91 to 2.51	2050 • 930	8 • 20.3	10.5 • 26.7
024-03-017	1.00 to 1.24 • 2.54 to 3.15	2650 • 1202	9 • 22.9	12.5 • 31.7
024-03-018	1.25 to 1.49 • 3.18 to 3.78	4500 • 2041	10 • 25.4	14.5 • 36.8
024-03-019	1.50 to 1.74 • 3.81 to 4.42	4500 • 2041	12 • 30.5	15.5 • 39.4

Double Eye Design/Double Weave/Closed Mesh

Part Number	Cable Dia. Range inches • cm	Approx. Breaking Wt. lbs • kg	Eye Length inches • cm	Nom. Mesh Length inches • cm
024-20-1504	1.00 to 1.24 • 2.54 to 3.15	6000 • 2722	12 • 30.5	14 • 35.6
024-20-1470	1.25 to 1.49 • 3.18 to 3.78	8200 • 3720	12 • 30.5	15 • 38.1
024-20-1510	1.50 to 1.74 • 3.81 to 4.42	8300 • 3765	12 • 30.5	17 • 43.2
024-20-1499	1.75 to 1.99 • 4.45 to 5.05	15000 • 6804	12 • 30.5	19 • 48.3
024-20-1542	2.00 to 2.50 • 5.08 to 6.35	15000 • 6804	12 • 30.5	22 • 55.9

Double Eye Design/Double Weave/Split Laced

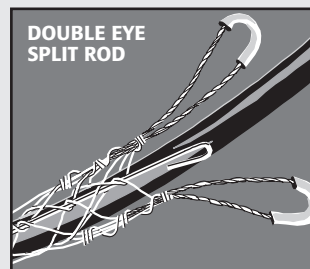
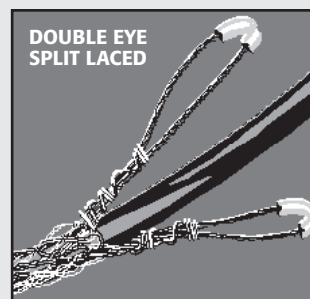
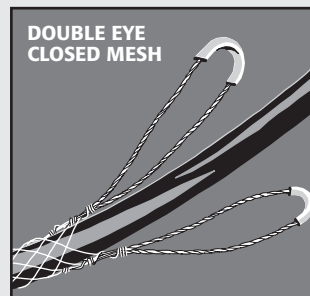
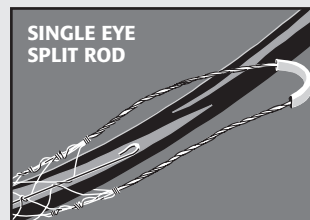
Part Number	Cable Dia. Range inches • cm	Approx. Breaking Wt. lbs • kg	Eye Length inches • cm	Nom. Mesh Length inches • cm
024-20-1284	.75 to .99 • 1.91 to 2.51	3100 • 1406	4 • 10.2	13 • 33.0
024-20-1285	1.00 to 1.24 • 2.54 to 3.15	4000 • 1814	4 • 10.2	14 • 35.6
024-20-1286	1.25 to 1.49 • 3.18 to 3.78	4000 • 1814	4 • 10.2	15 • 38.1
024-20-1287	1.50 to 1.74 • 3.81 to 4.42	4000 • 1814	4 • 10.2	17 • 43.2
024-20-1500	1.75 to 2.00 • 4.45 to 5.08	11000 • 4990	12 • 30.5	19 • 48.3

Double Eye Design/Single Weave/Split Rod

Part Number	Cable Dia. Range inches • cm	Approx. Breaking Wt. lbs • kg	Eye Length inches • cm	Nom. Mesh Length inches • cm
024-03-005	1.00 to 1.24 • 2.54 to 3.15	2650 • 1202	5 • 12.7	12.5 • 31.7
024-03-006	1.25 to 1.49 • 3.18 to 3.78	4500 • 2041	5 • 12.7	14.5 • 36.8
024-03-007	1.50 to 1.74 • 3.81 to 4.42	4500 • 2041	5 • 12.7	15.5 • 39.4

Component Specifications

These grips are intended for mid- and high-rise installations, and could be used as the primary hanging method for cables up to 200' (61 meters) in travel. Installations of over 40 stories should utilize the heavy duty double-weave grips for back-up purposes ONLY and not as the primary hanger. To maintain original grip set, the base of all grips should be secured with vinyl tape.



Barclays California Code of Regulations

(applies to 1970–August 8, 1997)

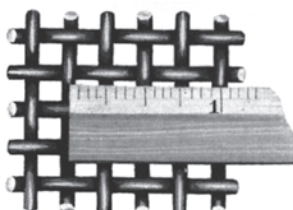
2.(c) Guarding of Counterweights in a Multiple-Elevator Hoistway

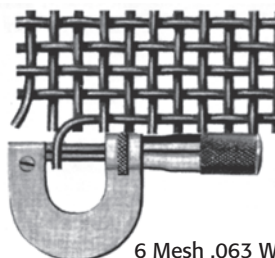
(1) Where counterweights are located between elevators in a hoistway having more than one elevator, the counterweight shall be guarded for the entire height of the hoistway. The guard shall extend at least 6 inches horizontally beyond each counterweight rail. The guard shall be made from wire-mesh material equal to or stronger than .048-inch diameter wire with openings not exceeding 1/2-inch, securely fastened to keep the guard taut and plumb.

(2) The guarding of counterweights required in Section 3013(c)(1) shall be accomplished within three years of the effective date of this regulation. (Title 24, Part 7, Section 7–3013.)

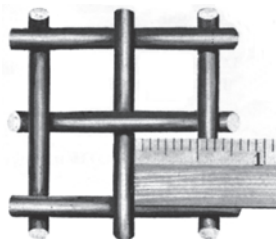
OHSA Regulations require the installation of screening between adjacent elevator hoistways to protect workers from injury.

The National Elevator Industry's Field Employee Safety Handbook, Section 8.3, "Hoistway Screening," requires that, "When an elevator is operating in a multiple hoistway, and construction or modernization work is to be performed, in an adjacent position of that multiple hoistway, that portion of the elevator hoistway where the work is to be performed, shall be fully separated."

MESH

 4 Mesh .092 Wire,
.158 Opening

WIRE


6 Mesh .063 Wire

OPENING


.50 Opening



Hoistway Safety Netting & Guard System

Square Mesh Wire Cloth

- Galvanized, Hot-Dipped after Welded
- Mesh: 1/2" x 1/2" (center to center)
- .063" diameter wire
- Rolls are 100 feet long and are available in widths of 18, 24, 30, 36, 48, 60 and 72 inches.

Specifications

Mesh

Number of openings per lineal inch. Measured from the center of wires. The number of openings precedes the word "Mesh."

Wire

The diameter of wire (in decimals) used in weaving cloth.

Opening

The size of clear opening between parallel wires. For a given mesh, the space is determined by the diameter of wire used.

PearlWeave Hoistway Safety Netting

PearlWeave netting, when installed vertically inside elevator hoistways, provides protection equivalent to that of wire mesh. It replaces screening behind traveling cables, protects counterweight frames, and most important, protects workers working inside of one hoistway from straying into the adjacent hoistway or the area between counterweight rails, thereby preventing serious injury, and even loss of life.

PearlWeave safety netting products are lightweight, durable and easier to use than traditional wire meshes, while exceeding their strength characteristics. Our chemical- and mildew-resistant products, are also flame retardant, and if burned, will not emit toxins into the hoistway.

Available in 48in. x 160ft. rolls

Hoistway Guard Systems

Hoistway guard systems are used to prevent round and flat traveling cable from striking obstructions in the hoistway and from crossing over into adjoining hoistways. Their use may extend the life span and prevent possible interference of your installed elevator cables.

Our guarding systems are available in two sizes, each containing 100ft x 1.5ft of 1/2"x 1/2" wire mesh, installation hardware, and detailed installation instructions.

Part Number	Description
HGS	Hardware, mesh and base mounting kit
HGS-EXT	Hardware, mesh and extension mounting kit (used to extend HGS an additional 100ft)

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538

Eastern US: 866-253-2915 or 860-256-2211

Cable & Wire Cutting Tools

Super Peeler

The Cadillac of cable stripping tools! Easy to calibrate and use, this unique cable "peeler" allows you to precisely score round traveling cable jackets for fast removal without nicking the conductors underneath. Just a turn of the dial adjusts the spring-loaded blade from 20 to 70 mils (0.5 to 1.8 mm).

Part Number	Description	Standard Packaging
BP1A	For cable dia. 0.75 to 1.25 in (19 to 32 mm)	1
BP2A	For cable dia. 1.25 to 2.00 in (32 to 51 mm)	1
34230	Replacement blade for either Super Peeler	1

Roto-Peeler

An easy-to-use blade that allows you to lock in the required cutting depth as to cleanly strip away the jacket, yet leave the individual conductor insulation undisturbed. The blade also can be positioned to allow circular, spiral and longitudinal cutting of the jacket. Designed for cable from 0.75 to 1.58 in (19 to 40 mm) in diameter.

Part Number	Description	Standard Packaging
1903	Roto-Peeler	1

FCJ Stripper

Faster and safer than the utility knife it replaces, the FCJ makes easy work of stripping jackets from flat cables. A rigid, ergonomic handle fits the worker's hand and protects it from cuts and skinned knuckles. The blade is housed in an L-shaped hardened steel guide that eases stripping while keeping blade and fingers from touching. Two extra blades are included and stored within the handle. Common Schick™ injector-type blades can be economically replaced.

Part Number	Description	Standard Packaging
N2878	Stripper	1
N2878H	Replacement Blades	1

Steel Core Cutters

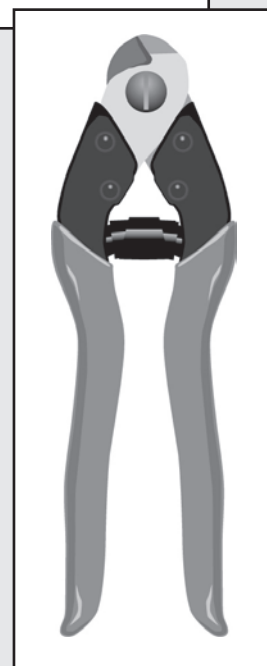
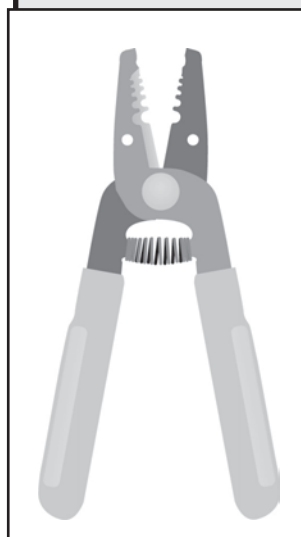
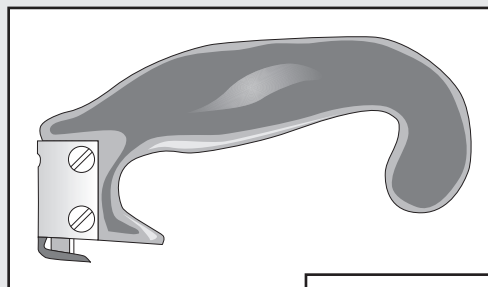
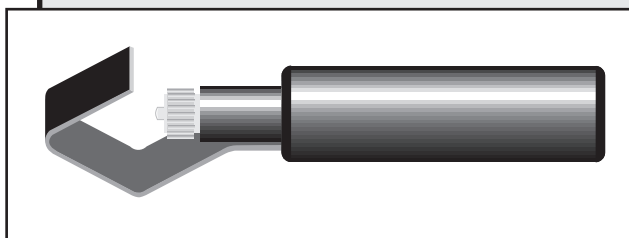
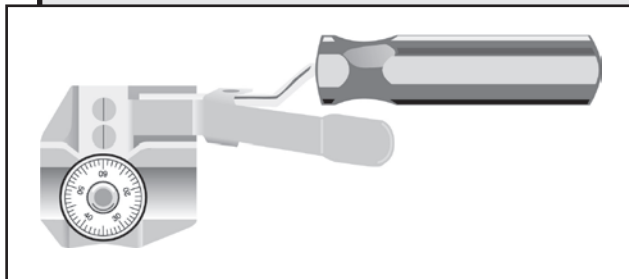
High-leverage cutters with Swiss-made carbide steel blades that make quick work of the steel reinforcement cable in traveling cables. Plastic-coated handles for comfort and grip. Blades lock in a closed position for better fit in a toolbelt.

Part Number	Description	Standard Packaging
63016	Steel Core Cutters	1

Wire Strippers

A compact, lightweight tool rugged enough for hoistway use. Precision-ground holes cleanly strip 16, 18, 20, 22, 24 and 26 AWG (1, 0.75, 0.50, 0.34, 0.25 and 0.19 mm²) stranded wire. Spring-loaded jaws and specially designed handles reduce fatigue.

Part Number	Description	Standard Packaging
KLEIN 11055	Wire Strippers	1



Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

Notes



Questions? Answers at...
Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970
Full line catalog available upon request

CONTACTORS, STARTERS, RELAYS & TIMERS



Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

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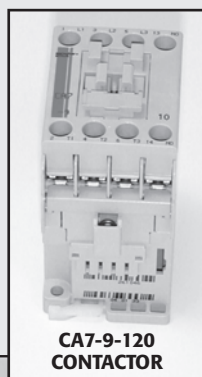
Sprecher & Schuh 3-Pole Contactors

CA7 Non-Reversing Three-Pole Contactors

Part Number*	AC Operated	DC Operated	Nema Equivalents	Maximum Horsepower Ratings				Maximum Inductive		
				1-phase 50/60 Hz		3-PHASE 50/60 Hz		Current		Aux
				115/120V	230/240V	200/208V	220/240V	460/480V	575/600V	(Amps) N/O N/C
CA7-9-10-*	CA7-9E-10-*	Size 00	0.5	1.5	2	2	5	7.5	9	1 0
CA7-9-01-*	CA7-9E-01-*	"	0.5	1.5	2	2	5	7.5	9	0 1
CA7-12-10-*	CA7-12E-10-*	"	0.5	2	3	3	7.5	10	12	1 0
CA7-12-01-*	CA7-12E-01-*	"	0.5	2	3	3	7.5	10	12	0 1
CA7-16-10-*	CA7-16E-10-*	SIZE 0	1	3	5	5	10	15	16	1 0
CA7-16-01-*	CA7-16E-01-*	"	1	3	5	5	10	15	16	0 1
CA7-23-10*	CA7-23E-10*	SIZE 1	2	3	5	7.5	15	15	23	1 0
CA7-23-10*	CA7-23E-10*	"	2	3	5	7.5	15	15	23	1 0
CA7-30-00-*	CA7-30E-00-*	"	2	5	7.5	10	20	25	30	0 0
CA7-37-00-*	CA7-37E-00-*	"	3	5	10	10	25	30	37	0 0
CA7-43-00-*	CA7-43E-00-*	SIZE 2	3	7.5	10	15	30	30	43	0 0
CA7-60-00-*	CA7-60D-00-*	"	5	10	15	20	40	50	60	0 0
CA7-72-00-*	CA7-72D-00-*	"	5	15	20	25	50	60	72	0 0
CA7-85-00-*	CA7-85D-00-*	SIZE 3	7.5	15	25	30	60	60	85	0 0
CA7-97-00-*	CA7-97-00-*	"	7.5	15	30	30	75	75	95	1 1
CA6-115-EI-11-*	CA6-115-EI-11-*	"	10	25	40	40	75	100	110	1 1
CA6-140-EI-11-*	CA6-140-EI-11-*	SIZE 4	15	30	40	50	100	125	140	1 1
CA6-180-EI-11-*	CA6-180-EI-11-*	"		40	50	60	150	150	180	1 1
CA6-210-EI-11-*	CA6-210-EI-11-*	"		50	60	75	150	200	210	1 1
CA6-250-EI-11-*	CA6-250-EI-11-*	SIZE 5			75	100	200	250	250	1 1
CA6-300-EI-11-*	CA6-300-EI-11-*	"			100	125	250	300	300	1 1
CA6-420-EI-11-*	CA6-420-EI-11-*	"			150	175	350	400	420	1 1
CA6-630-EI-11-*	CA6-630-EI-11-*	SIZE 6			200	250	500	600	630	1 1
CA6-860-EI-11-*	CA6-860-EI-11-*	SIZE 7			250	300	600	700	860	1 1

*Please add coil voltage when ordering.

** For additional accessory info call and speak with a salesperson.


 CA7-9-120
CONTACTOR

 CA7-85-00-120
CONTACTOR

CA7 Aux Blocks

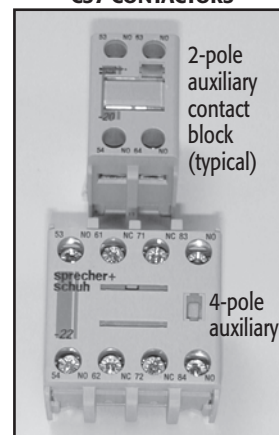
Part Number	N.O.	N.C.	Mount
CS7-PV-10	1	0	Front
CS7-PV-01	0	1	Front
CS7-PV-11	1	1	Front
CS7-PV-20	2	0	Front
CS7-PV-02	0	2	Front
CS7-PV-22	2	2	Front
CS7-PV-13	1	3	Front
CS7-PV-31	3	1	Front
CS7-PV-40	4	0	Front
CA7-PA-10	1	0	Side
CA7-PA-01	0	1	Side
CA7-PA-20	2	0	Side
CA7-PA-02	0	2	Side
CA7-PA-11	1	1	Side
CA7-PA-L11	1EM	1LB	Side

*Additional types available.

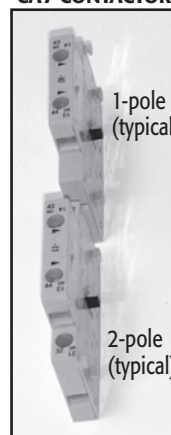
CA6 Aux Blocks

Part Number	N.O.	N.C.	Mount
CA6-S1-11	1	1	Inside left or right
CA6-S2-11	1	1	Outside left or right
CA6-S1-L11	1	1LB	Inside left or right
CA6-S1-20	2	0	Inside left or right
CA6-S2-20	2	0	Outside left or right

CS7 CONTACTORS



CA7 CONTACTORS



Questions? Answers at...

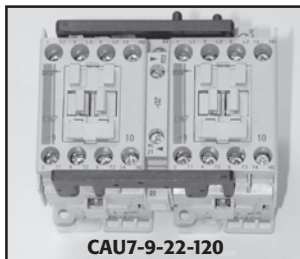
 Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Sprecher & Schuh Mechanically Interlocked Contactors

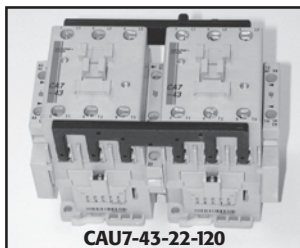
CA7 Mechanically & Electrically Interlocked Contactors

		Maximum Inductive Current		3-Phase 50/60 Hz													
		Nema Equivalents	Amps (3 Wire)	Line Connected - 3 Wire												Delta Connected - 6 Wire	
Part Number*	DC Operated			1-phase 50/60 Hz				Reversing Contactor				Remove the load side poer buss for wye-delta use				Supplied as a 3 wire reversing contactor	
AC Operated	DC Operated			115/120V	230/240V	200/208V	220/240V	460/480V	575/600V	200/208V	220/240V	460/480V	575/600V	N/O	N/C		
CAU7-9-22-*	CAU7-9E-22-*	Size 00	9	0.5	1.5	2	2	5	7.5	5	5	10	10	2	2		
CAU7-12-22-*	CAU7-12E-22-*	"	12	0.5	2	3	3	7.5	10	5	7.5	15	15	2	2		
CAU7-16-22-*	CAU7-16E-22-*	SIZE 0	16	1	3	5	5	10	15	7.5	10	20	20	2	2		
CAU7-23-22*	CAU7-23E-22*	SIZE 1	23	2	3	5	7.5	15	15	7.5	10	25	25	2	2		
CAU7-30-22*	CAU7-30E-22*	"	30	2	5	7.5	10	20	25	10	15	30	30	2	2		
CAU7-37-22*	CAU7-37E-22*	"	37	3	5	10	10	25	30	15	20	40	40	2	2		
CAU7-43-22*	CAU7-43E-22*	SIZE 2	43	3	7.5	10	15	30	30	20	25	50	50	2	2		
CAU7-60-22*	CAU7-60D-22*	"	60	5	10	15	20	40	50	30	40	75	75	2	2		
CAU7-72-22*	CAU7-72D-22*	"	72	5	15	20	25	50	60	40	50	100	100	2	2		
CAU7-85-22*	CAU7-85D-22*	SIZE 3	85	7.5	15	25	30	60	60	50	60	125	125	2	2		
CAU7-97-22*	CAU7-97-22*	"	97	7.5	15	30	30	75	75	50	60	125	125	2	2		
CAU6-115-EI-22*	CAU6-115-EI-22*	"	110	10	25	40	40	75	100	SEE PCEC SOFT STARTER SECTION				2	2		
CAU6-140-EI-22*	CAU6-140-EI-22*	SIZE 4	140	15	30	40	50	100	125					2	2		
CAU6-180-EI-22*	CAU6-180-EI-22*	"	180		40	50	60	150	150					2	2		
CAU6-210-EI-22*	CAU6-210-EI-22*	"	210		50	60	75	150	200					2	2		
CAU6-250-EI-22*	CAU6-250-EI-22*	SIZE 5	250			75	100	200	250					2	2		
CAU6-300-EI-22*	CAU6-300-EI-22*	"	300			100	125	250	300					2	2		
CAU6-420-EI-22*	CAU6-420-EI-22*	"	420			150	175	350	400					2	2		
CAU6-630-EI-22*	CAU6-630-EI-22*	SIZE 6	630			200	250	500	600					2	2		
CAU6-860-EI-22*	CAU6-860-EI-22*	SIZE 7	860			250	300	600	700					2	2		

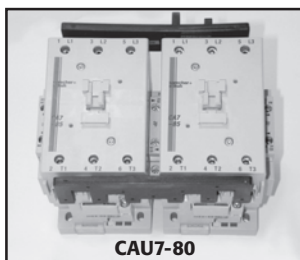
REVERSING CONTACTORS



CAU7-9-22-120



CAU7-43-22-120



CAU7-80



Surge Suppressors

Limits coil switching transients.

- Plug-in, coil mounted
- Suitable for all CS7 contactors

CM7-02



Mechanical/Electrical Interlocks

- Common to all CA7 contactors; interlocks different contactor sizes
- Mechanical and electrical interlocking possible in one module by means of integrated auxiliary contacts
- Dovetail (CA7-S9) connector included (9mm)

*Please add coil voltage when ordering.

** For additional accessory info call and speak with a salesperson.

CA7 Surge Suppressors

Part Number	Type	Voltage Range
CRC7-48	RC Module	24-48vac
CRC7-280	RC Module	110-280vac
CRC7-480	RC Module	380-480vac
CRD7-250	Diode Module	12-240vdc
CRV7-55	Varistor Module	12-55vac
		12-77vdc
CRV7-136	Varistor Module	56-136vac
		78-180vdc
CRV7-277	Varistor Module	137-277vac
		181-350vdc
CRV7-575	Varistor Module	278-575vac

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Sprecher & Schuh 4-Pole Contactors



CA7 Non-Reversing Four Pole Contactors

Part Number*		Maximum Horsepower Ratings						Maximum	Contact Configuration	
AC	DC	1-phase 50/60 Hz		3-PHASE 50/60 Hz				Inductive	Main Pole	
Operated	Operated	115/120V	230/240V	200/208V	220/240V	460/480V	575/600V	Current (Amps)	N/O	N/C
CA7-9-M40*	CA7-9E-M40*	0.5	1.5	2	2	5	7.5	9	4	0
CA7-9-M31*	CA7-9E-M31*	0.5	1.5	2	2	5	7.5	9	3	1
CA7-9-M22*	CA7-9E-M22*	0.5	1.5	2	2	5	7.5	9	2	2
CA7-12-M40*	CA7-12E-M40*	0.5	2	3	3	7.5	10	12	4	0
CA7-12-M31*	CA7-12E-M31*	0.5	2	3	3	7.5	10	12	3	1
CA7-12-M22*	CA7-12E-M22*	0.5	2	3	3	7.5	10	12	2	2
CA7-16-M40*	CA7-16E-M40*	1	3	5	5	10	15	16	4	0
CA7-16-M31*	CA7-16E-M31*	1	3	5	5	10	15	16	3	1
CA7-16-M22*	CA7-16E-M22*	1	3	5	5	10	15	16	2	2
CA7-23-M40*	CA7-23E-M40*	2	3	5	7.5	15	15	23	4	0
CA7-23-M31*	CA7-23E-M31*	2	3	5	7.5	15	15	23	3	1
CA7-23-M22*	CA7-23E-M22*	2	3	5	7.5	15	15	23	2	2
CA7-40-M40*	CA7-40E-M40*	3	5	10	10	25	30	37	4	0
CA7-40-M22*	CA7-40E-M22*	3	5	10	10	25	15	37	2	2
CA7-90-M40*		7.5	15	25	30	60	50	85	4	0
CA7-90-M22*		7.5	15	25	30	50	20	95	2	2

*Please add coil voltage when ordering.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Sprecher & Schuh Overload Relays

Electronic Overload Relays

Adjustable trip class 10, 15, 20 & 30

Part Number	Adjustable Trip Range (Amps)	For Use with Contactors
CEP7-EECB	1 to 5	CA7-9 to CA7-23
CEP7-EEDB	3.2 to 16	CA7-9 to CA7-23
CEP7-EEEB	5.4 to 27	CA7-9 to CA7-23
CEP7-EEED	5.4 to 27	CA7-30 to CA7-43
CEP7-EEFD	9 to 45	CA7-30 to CA7-43
CEP7-EEFE	9 to 45	CA7-60 to CA7-85
CEP7-EEGE	18 to 90	CA7-60 to CA7-85
CEP7-EEJF	40 to 200	CA6-95 to CA6-180

*Additional sizes available

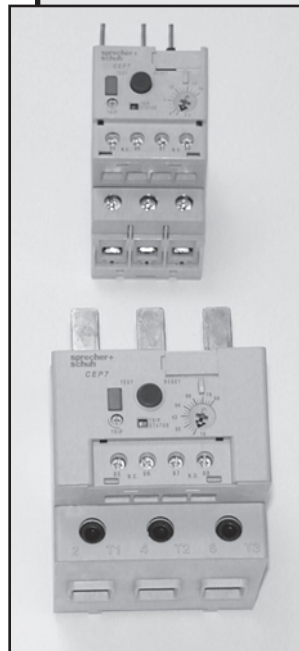
Panel Mount Adapters

Part Number	Fits Overload Type
CEP7-EPB	CEP7-EE...B
CEP7-EPD	CEP7-EE...D
CEP7-EPE	CEP7-EE...E
CT7N-37-P-A	CT7N-23...37

Thermal Overload Relays

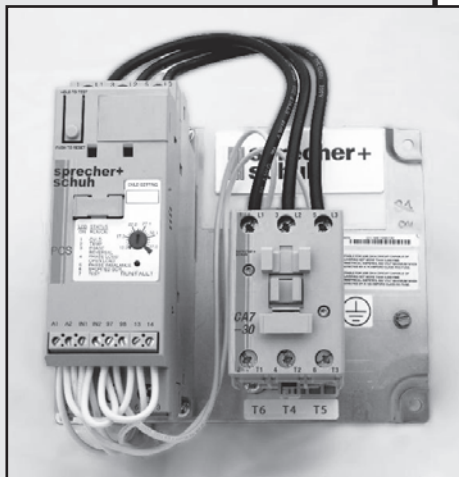
Adjustable trip class 10

Part Number	Adjustable Trip Range (Amps)	For Use with Contactors
CT7N-23-B75	5.5 to 7.5	CA7-9 to CA7-23
CT7N-23-C10	7.2 to 10	CA7-9 to CA7-23
CT7N-23-C12	9 to 12.5	CA7-12 to CA7-23
CT7N-23-C16	11.3 to 16	CA7-16 to CA7-23
CT7N-23-C20	15 to 20	CA7-16 to CA7-23
CT7N-23-C25	21 to 25	CA7-16 to CA7-23
CT7N-37-C25	21 to 25	CA7-30 to CA7-37
CT7N-37-C30	24.5 to 30	CA7-30 to CA7-37
CT7N-37-C36	29 to 36	CA7-30 to CA7-37
CT7N-37-C38	33 to 38	CA7-37
CT7N-85-C47P	35 to 47	Separately mounted
CT7N-43-C25	17 to 25	CA7-43
CT7N-43-C36	24.5 to 36	CA7-43
CT7N-43-C47	35 to 47	CA7-43
CT7N-85-C47	35 to 47	CA7-60 to CA7-85
CT7N-85-C60	45 to 60	CA7-60 to CA7-85
CT7N-85-C60P	45 to 60	Separately mounted
CT7N-85-C75	58 to 75	CA7-85
CT7N-85-C75P	58 to 75	Separately mounted
CT7N-85-C90	72 to 90	CA7-85
CT7N-85-C90P	72 to 90	Separately mounted



Questions? Answers at...

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Elevator Softstarter

Part Number	DELTA Connected (6 Wire) H.P. Ratings				Overload Range	LINE Connected (3 Wire) H.P. Ratings				Overload Range
	3-PHASE 50/60 Hz					3-PHASE 50/60 Hz				
120VAC Control Voltage	208V	240V	480V	575V	(Amps)	208V	240V	480V	575V	(Amps)
PCEC-032-600V-120V	10	10	15	30	10.9...32.9	5	5	10	15	6.3...19
PCEC-051-600V-120V	15	15	30	40	17.3...51.9	7.5	10	20	25	10...30
PCEC-064-600V-120V	20	20	40	60	21...64	10	10	25	30	12.3...37
PCEC-074-600V-120V	20	25	50	60	25...74	10	15	30	40	14.3...43
PCEC-104-600V-120V	30	40	75	100	84.6...104	15	20	40	50	20...60
PCEC-147-600V-120V	40	50	100	150	50...147	25	30	60	75	28.3...85
PCEC-234-600V-120V	60	75	150	150	59...234	40	50	100	100	34...135

Replacement Parts

PCEC Assembly	PCE Controller Only	PCE Fans	Fault Contactor	Fault Contactor Coils*	
				120vac	208 - 240vac
PCEC-032-600V-120V	PCEC-032-600V	PCV-064 (optional)	CA7-37-00-120	TC473	TC296
PCEC-051-600V-120V	PCEC-051-600V		CA7-37-00-120		
PCEC-064-600V-120V	PCEC-064-600V		CA7-37-00-120		
PCEC-074-600V-120V	PCEC-074-600V	PCV-147	CA7-43-00-120	TD473	TD296
PCEC-104-600V-120V	PCEC-104-600V		CA7-60-00-120	TE473	TE296
PCEC-147-600V-120V	PCEC-147-600V		CA7-85-00-120	TE473	TE296
PCEC-234-600V-120V	PCEC-234-600V		CA6-180-EI-11-120	CA6-TGE865	CA6-TGE866

PCEC Aux Blocks

Part Number	N.O.	N.C.
PCS-PA-10	1	0
PCS-PA-01	0	1
PCS-PA-11	1	1

Sprecher & Schuh PCEC Hydraulic Elevator Softstarters

Thinking of replacing that old mechanical contactor with a softstarter but are concerned about it fitting... The PCEC is much smaller than other commonly used softstarters. It's the ideal wye-delta contactor replacement because it typically fits within the existing contactor footprint. The PCEC is supplied mounted to a back panel but the components will also snap on a DIN rail.

Diagnostics:

- Overload
- Over temp protection
- Phase reversal
- Phase loss/open Load
- Phase imbalance
- Shorted SCR
- Test overload

Features:

- Selectable overload class, 10, 15, 20, off
- Phase imbalance selectivity
- LED diagnostic & run display
- ½-sec "hold-in" display
- "Up-to-speed" contact

* The PCE controller's control voltage operating range is 100-240vac. The coil voltage of the fault contactor determines the control voltage of the PCEC assembly.

Dimensions

Controller Sizes	Units	Width	Height	Depth	Approx. Weight
32 / 51 / 64	mm	178	144	115.7	4 lbs
	inch	7.01	5.67	4.56	
74 / 104 / 147	mm	240	225	147.9	14 lbs
	inch	9.45	8.86	5.82	
234	mm	362	515	216.4	51 lbs
	inch	14.25	20.28	8.52	

Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Sprecher & Schuh CS7 Control Relays

CS7 Control Relays

10 amp a/c, 5 amp d/c continuous

Part Number*	DC Operated	Contacts	
		N/O	N/C
CS7-22E-*	CS7E-22E-*	2	2
CS7-31E-*	CS7E-31E-*	3	1
CS7-40E-*	CS7E-40E-*	4	0
CS7-04E-*	CS7E-04E-*	0	4*

Please add coil voltage when ordering.

CS7 Master Control Relays

20 amp a/c, 5 amp d/c continuous

Part Number*	DC Operated	Contacts	
		N/O	N/C
CS7-M22E-*	CS7E-M22E-*	2	2
CS7-M31E-*	CS7E-M31E-*	3	1
CS7-M40E-*	CS7E-M40E-*	4	0
CS7-M04E-*	CS7E-M04E-*	0	4

*Please add coil voltage when ordering.

Aux Blocks

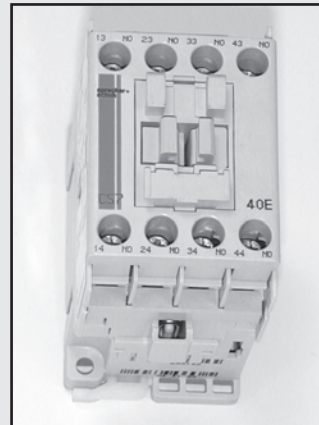
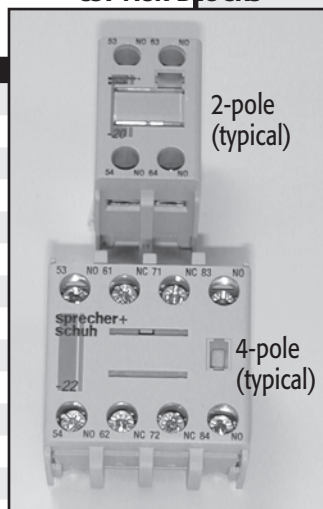
Part Number	N.O.	N.C.	Mount
CS7-PV-10	1	0	Front
CS7-PV-01	0	1	Front
CS7-PV-11	1	1	Front
CS7-PV-20	2	0	Front
CS7-PV-02	0	2	Front
CS7-PV-22	2	2	Front
CS7-PV-13	1	3	Front
CS7-PV-31	3	1	Front
CS7-PV-40	4	0	Front
CS7-PV-04	0	4	Front
CA7-PA-10	1	0	Side
CA7-PA-01	0	1	Side
CA7-PA-20	2	0	Side
CA7-PA-02	0	2	Side
CA7-PA-11	1	1	Side
CA7-PA-L11	1EM	1LB	Side

*Additional types available.

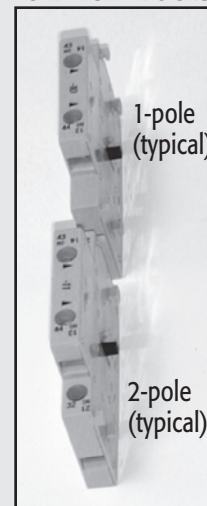
CA7 Surge Suppressors

Part Number	Type	Voltage Range
CRC7-48	RC Module	24-48vac
CRC7-280	RC Module	110-280vac
CRC7-480	RC Module	380-480vac
CRD7-250	Diode Module	12-240vdc
CRV7-55	Varistor Module	12-55vac 12-77vdc
CRV7-136	Varistor Module	56-136vac 78-180vdc
CRV7-277	Varistor Module	137-277vac 181-350vdc
CRV7-575	Varistor Module	278-575vac

CS7 AUX BLOCKS

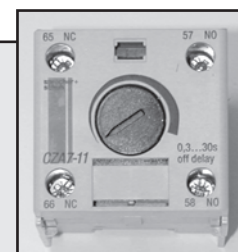


CA7 AUX BLOCKS



Pneumatic Timing Modules

Part Number	Type	Time Range
CZE7-30	On-Delay	0.1 to 3 s
CZE7-180	On-Delay	1.8 to 180 s
CZA7-30	Off-Delay	0.1 to 3 s
CZA7-180	Off-Delay	1.8 to 180 s



Questions? Answers at...

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Sprecher & Schuh

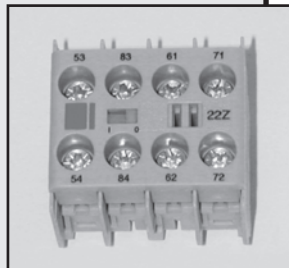
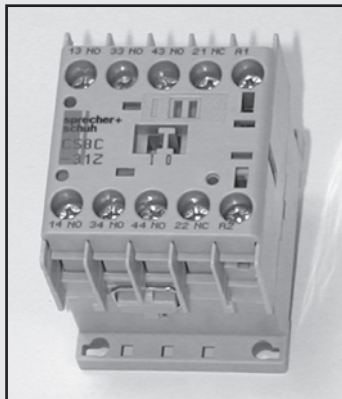
CA8 & CS8

Contactors & Relays

CA8 Contactors

Part Number*	AC Operated	DC Operated	Maximum Horsepower Ratings						Maximum Inductive		
			1-phase 50/60 Hz		3-PHASE 50/60 Hz				Current (Amps)	Aux	
			115/120V	230/240V	200/208V	220/240V	460/480V	575/600V		N/O	N/C
CA8-9-10-*	CA8-9C-10-*		0.5	1.5	2	2	5	5	9	1	0
CA8-9-01-*	CA8-9C-01-*		0.5	1.5	2	2	5	5	9	0	1
CA8-12-10-*	CA8-12C-10-*		0.75	2	3	3	7.5	7.5	12	1	0
CA8-12-01-*	CA8-12C-01-*		0.75	2	3	3	7.5	7.5	12	0	1

*Please add coil voltage when ordering.



CS8 Control Relays

Part Number*	AC Operated	DC Operated	Contacts	
			N/O	N/C
CS8-40E-*	CS8C-40E-*		4	0
CS8-31Z-*	CS8C-31Z-*		3	1
CS8-22Z-*	CS8C-22Z-*		2	2

*Please add coil voltage when ordering.

Aux Blocks

Part Number	N.O.	N.C.
CS8-P02	0	2
CS8-P20	2	0
CS8-P11	1	1
CS8-P04	0	4
CS8-P22	2	2
CS8-P40	4	0

*Additional types available.

CS8 Surge Suppressor modules

Part Number	Link Type	Voltage
CRC8-50	RC	24 - 48VAC
CRC8-240	RC	110 - 280VAC
CRC8-480	RC	380 - 480VAC
CRD8-250	Diode	12 - 250VDC
CRV8-55	Varistor	12-55VAC/12-77VDC
CRV8-136	Varistor	56-136VAC/78-180VDC
CRV8-277	Varistor	137-277VAC/181-250VDC

Questions? Answers at...

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Telemacanique

3-Pole AC Contactors

Part Number*	Nema Equivalents	Max Inductive Current (Amps)	Maximum Horsepower Ratings							Aux N/O N/C	
			1-phase 50/60 Hz		3-phase 50/60 Hz						
			115/120V	230/240V	200/208V	220/240V	460/480V	575/600V			
LC1D09*	Size 00	9	0.5	1	2	2	5	7.5	1	1	
LC1D12*	"	12	1	2	3	3	7.5	10	1	1	
LC1D18*	Size 0	18	1	3	5	5	10	15	1	1	
LC1D25*	Size 1	25	2	3	7.5	7.5	15	20	1	1	
LC1D32*	"	32	2	5	10	10	20	30	1	1	
LC1D40*	"	40	3	5	10	10	30	30	1	1	
LC1D50*	Size 2	50	3	7.5	15	15	40	40	1	1	
LC1D65*	"	65	5	10	20	20	50	50	1	1	
LC1D80*	"	80	7.5	15	25	30	60	60	1	1	
LC1D115*	Size 3	115	-	-	30	40	75	100	0	0	
LC1D150*	Size 4	150	-	-	40	50	100	125	0	0	

*Please add coil voltage code when ordering.

Coil Voltage Codes

AC Volts (50/60 Hz)																				
Part Numbers	24	42	48	110	115	120	127	208	220	230	240	277	380	400	415	440	480	575	600	
LC1D09 to D32	B7	D7	E7	F7	FE7	G7	FC7	LE7	M7	P7	U7	W7	Q7	V7	N7	R7	T7	SC7	X7	
LC1D40 to D150*	B7	D7	E7	F7	FE7	G7		L6	M7	P7	U7	W6	Q7	V7	N7	R7	T6	S6	X6	

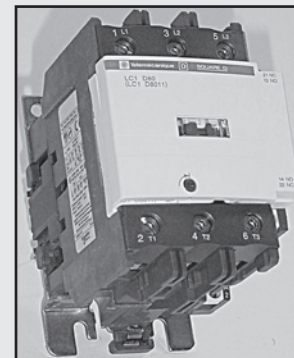
*with built-in surge suppression

DC Volts															
Part Numbers		5	12	20	24	36	48	60	72	96	110	125	220	250	440
LP1D09 to D80			JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LP1D115 to D150*					BD	ED	ND	SD	FD	GD	MD	UD	RD		

*with built-in surge suppression

Auxiliary Contacts

Part Number	N.O.	N.C.	Mount
LADN10	1	0	Front
LADN01	0	1	Front
LADN11	1	1	Front
LADN20	2	0	Front
LADN02	0	2	Front
LADN22	2	2	Front
LADN13	1	3	Front
LADN31	3	1	Front
LADN40	4	0	Front
LADN04	0	4	Front
LAD8N11	1	1	Side
LAD8N20	2	0	Side
LAD8N02	0	2	Side



Questions? Answers at...

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Telemecanique

3-Pole AC Reversing Contactors & Interlock Kits

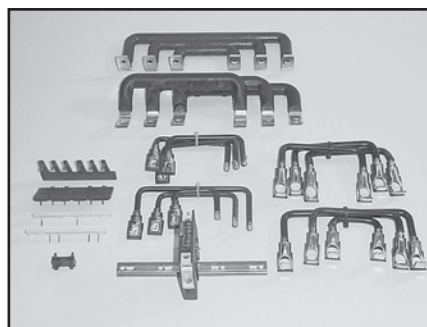
Part Number*	Nema Equivalents	Max Inductive Current (Amps)	Maximum Horsepower Ratings							Aux	
			1-phase 50/60 Hz		3-phase 50/60 Hz						
			115/120V	230/240V	200/208V	220/240V	460/480V	575/600V	N/O	N/C	
LC2D09*	Size 00	9	0.5	1	2	2	5	7.5	2	4	
LC2D12*	"	12	1	2	3	3	7.5	10	2	4	
LC2D18*	Size 0	18	1	3	5	5	10	15	2	4	
LC2D25*	Size 1	25	2	3	7.5	7.5	15	20	2	4	
LC2D32*	"	32	2	5	10	10	20	30	2	4	
LC2D40*	"	40	3	5	10	10	30	30	2	4	
LC2D50*	Size 2	50	3	7.5	15	15	40	40	2	4	
LC2D65*	"	65	5	10	20	20	50	50	2	4	
LC2D80*	"	80	7.5	15	25	30	60	60	2	4	
LC2D115*	Size 3	115	-	-	30	40	75	100	0	0	
LC2D150*	Size 4	150	-	-	40	50	100	125	0	0	

*Please add coil voltage code when ordering.
See page 4.2 for selection table.

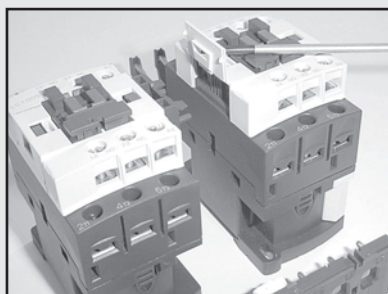


Interlock Kits for Field Assembly

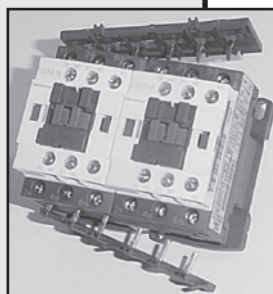
Mechanical Interlock Part Number	Power Bus Part Number	Used on Contactors
LAD9R1V	Included	LC1D09 to D38
LA9DR4002	LA9D6569	LC1D40 to D65
LA9DR4002	LA9D8069	LC1D80
LA9D11502	LA9D11569	LC1D115 to D150



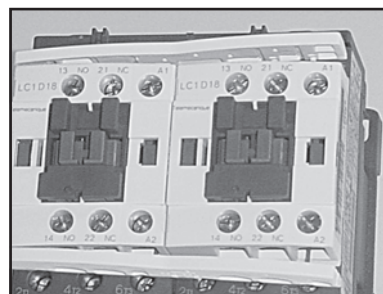
Interlock and Bus Kits make field assembly quick and easy. (LC1D09-D32 shown)



REMOVE SIDE COVER
AND ATTACH INTERLOCK



ATTACH POWER BUS



ATTACH CONTROL CIRCUIT BUS

Questions? Answers at...

4.10

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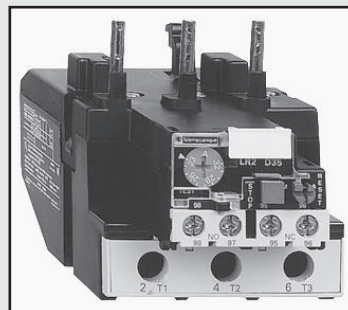
Telemecanique Overload Relays

Class 10 Bi-Metallic Overloads (2-10 sec. Trip)

Part Number*	Adjustable Trip Range (Amps)	For Use with Contactors
LRD01	0.10 to 0.16	D09 to D32
LRD02	0.16 to 0.25	D09 to D32
LRD03	0.25 to 0.40	D09 to D32
LRD04	0.40 to 0.63	D09 to D32
LRD05	0.63 to 1	D09 to D32
LRD06	1 to 1.7	D09 to D32
LRD07	1.6 to 2.5	D09 to D32
LRD08	2.5 to 4	D09 to D32
LRD10	4 to 6	D09 to D32
LRD12	5.5 to 8	D09 to D32
LRD14	7 to 10	D09 to D32
LRD16	9 to 13	D12 to D32
LRD21	12 to 18	D18 to D32
LRD22	16 to 24	D25 to D32
LRD32	23 to 32	D25 to D32
LRD3322	17 to 25	D40 to D80
LRD3353	23 to 32	D40 to D80
LRD3355	30 to 40	D40 to D80
LRD3357	37 to 50	D40 to D80
LRD3359	48 to 65	D50 to D80
LRD3361	55 to 70	D50 to D80
LRD3363	55 to 70	D65 to D80
LRD4365	63 to 80	D115 to D150
LRD4367	95 to 120	D115 to D150
LRD4369	110 to 140	D150

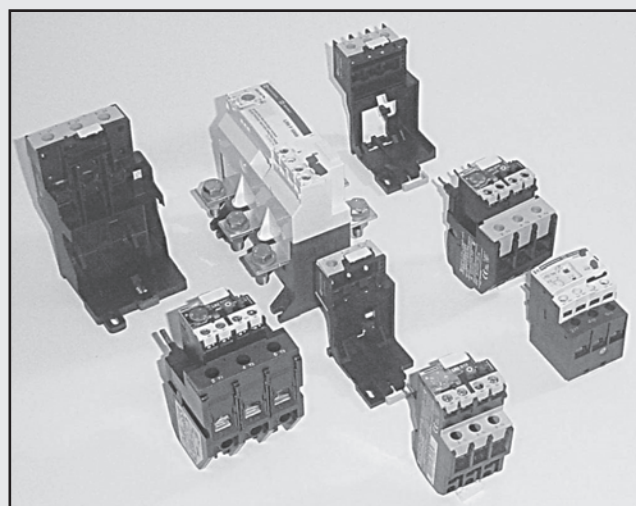
Class 20 Bi-Metallic Overloads (6-20 sec. Trip)

Part Number*	Adjustable Trip Range (Amps)	For Use with Contactors
LRD1508	2.5 to 4	D09 to D32
LRD1510	4 to 6	D09 to D32
LRD1512	5.5 to 8	D09 to D32
LRD1514	7 to 10	D09 to D32
LRD1516	9 to 13	D12 to D32
LRD1521	12 to 18	D18 to D32
LRD1522	17 to 25	D25 to D32
LR2D2553	23 to 32	D25 to D32
LR2D3522	17 to 25	D40 to D80
LR2D3553	23 to 32	D40 to D80
LR2D3555	30 to 40	D40 to D80
LR2D3557	37 to 50	D50 to D80
LR2D3559	48 to 65	D50 to D80
LR2D3561	55 to 70	D50 to D80
LR2D3563	63 to 80	D80
LR9D5567	60 to 100	D115 to D150
LR9D5569	90 to 150	D115 to D150



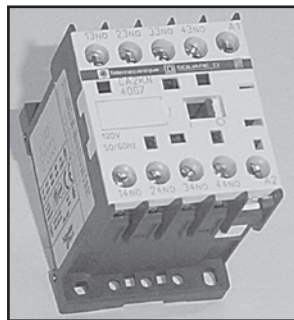
Panel Mount Adaptors

Part Number*	Fits Overload Type
LAD7B10	LRD01 to D35
LAD7B105	LRD15
LA7D1064	LR2D1
LA7D2064	LR2D2
LA7D3064	LR2D3



Questions? Answers at...

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H-Line Relays

Part Number*	N.O.	N.C.	Coil Type
CA2KN40*	4	0	AC
CA2KN31*	3	1	AC
CA2KN22*	2	2	AC
CA3KN40*	4	0	DC
CA3KN31*	3	1	DC
CA3KN22*	2	2	DC

*Please add coil voltage code when ordering.

Auxiliary Contacts

Part Number*	N.O.	N.C.
LA1KN11	1	1
LA1KN20	2	0
LA1KN02	0	2
LA1KN22	2	2
LA1KN13	1	3
LA1KN31	3	1
LA1KN40	4	0
LA1KN04	0	4



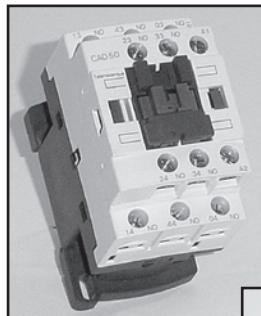
Electronic Timing Modules

Part Number	Voltage	Contacts
LA2KT2E	24 to 48 V AC/DC	1 x SPST
LA2KT2U	110 to 240 V AC	1 x SPST

Coil Voltage Codes

AC 50/60 Hz	12	24	48	120	208	240	277	480	600		
Code	J7	B7	E7	G7	LE7	U7	W7	T7	X7		
DC	12	24	36	48	60	72	110	125	220	250	440
Code	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD

Telemecanique D-Line & K-Line Control Relays



D-Line Relays

Part Number*	N.O.	N.C.
CAD50*	5	0
CAD32*	3	2

*Please add coil voltage code when ordering.



Auxiliary Contacts

Part Number	N.O.	N.C.	Mount
LADN10	1	0	Front
LADN01	0	1	Front
LADN11	1	1	Front
LADN20	2	0	Front
LADN02	0	2	Front
LADN22	2	2	Front
LADN13	1	3	Front
LADN31	3	1	Front
LADN40	4	0	Front
LADN04	0	4	Front
LAD8N11	1	1	Side
LAD8N20	2	0	Side
LAD8N02	0	2	Side

Pneumatic Timer Attachments

Part Number	Type	Time Range
LADT0	On-Delay	0.1 to 3 s
LADT2	On-Delay	0.1 to 30 s
LADT4	On-Delay	10 to 180 s
LADR0	Off-Delay	0.1 to 3 s
LADR2	Off-Delay	0.1 to 30 s
LADR4	Off-Delay	10 to 180 s

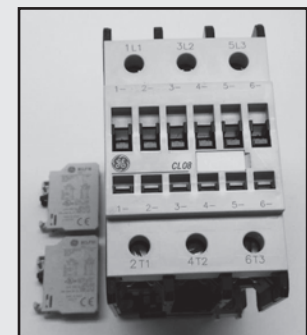
Questions? Answers at...

General Electric 3-Pole AC Contractors

Series C-2000 Non-Reversing Three Pole Contactors

Part Number*	Nema Equivalents	Maximum Horsepower Ratings			Maximum		
		200/230V	3-phase 50/60 Hz		Inductive	Aux	
AC Operated			380/400V	415/440V	(Amps)	N/O	N/C
CL00A310T*	Size 00	3	5.5	5.5	7.5	9	1 0
CL00A301T*	"	3	5.5	5.5	7.5	9	0 1
CL01A310T*	"	4	7.5	7.5	10	12	1 0
CL01A301T*	"	4	7.5	7.5	10	12	0 1
CL02A310T*	SIZE 0	5.5	10	10	13.5	18	1 0
CL02A301T*	"	5.5	10	10	13.5	18	0 1
CL03A310M*	SIZE 1	10	16	16	20	25	1 0
CL03A301M*	"	10	16	16	20	25	0 1
CL04A310M*	"	12	22	22	25	32	1 0
CL04A301M*	"	12	22	22	25	32	0 1
CL45A310M*	SIZE 2	15	25	30	34	40	1 0
CL06A311M*	"	20	30	34	40	50	1 1
CL07A311M*	"	25	40	50	55	65	1 1
CL08A311M*	"	30	50	60	60	80	1 1
CL09A311M*	SIZE 3	34	60	68	75	95	1 1
CL10A311M*	"	40	75	75	88	110	1 1
CK75CA311*	SIZE 4	60	100	108	135	150	1 1
CK08CA311*	"	75	125	135	150	185	1 1
CK85BA311*	"	88	150	170	180	205	1 1

*Please add coil voltage code when ordering.



Series C-2000 Aux Blocks

Part Number	N.O.	N.C.	Mount
BCLF10	1	0	Front
BCLF01	0	1	Front
BCLL11	1	1	Side
BCLL20	2	0	Side
BRLL20	2	0	Side, CK contactors
BRLL11	1	1	Side, CK contactors
BRLL02	0	2	Side, CK contactors

Coil Suffix

Voltage	Suffix
110 - 127	J
220 - 250	N
380 - 415	U
440 - 500	Y



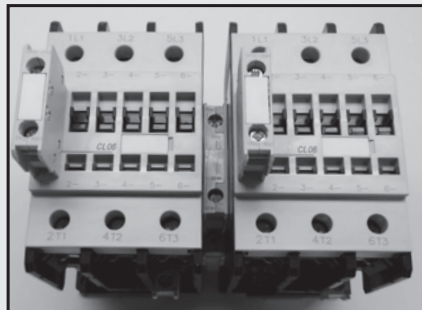
Series 2000 Accessories

Part Number	Type
BELA02	Mechanical / Electrical interlock, sizes CL00 - CL10
BTLF30C	Pneumatic timer attachment, on-delay 0.1 - 30 sec.
BTLF30D	Pneumatic timer attachment, off-delay 0.1 - 30 sec.
BSLV3G	Varistor surge suppressor module, 24 - 48V AC/DC
BSLV3K	Varistor surge suppressor module, 50 - 127V AC/DC
BSLV3R	Varistor surge suppressor module, 130 - 250V AC/DC

* Additional types available

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



General Electric Reversing Contactors & Overload Relays

Series C-2000 Reversing Contactors

Part Number* AC Operated	Nema Equivalents	Maximum Horsepower Ratings 3-phase 50/60 Hz				Maximum Inductive (Amps)	Aux	
		220V	230V	460V	575V		N/O	N/C
LDR00A*	Size 00	3	3	5	7.5	10	2	2
LDR01A*	"	3	3	7.5	10	13.8	2	2
LDR02A*	SIZE 0	5	5	10	15	17.5	2	2
LDR25A*	SIZE 1	5	7.5	15	15	22	2	2
LDR04A*	"	10	10	20	25	32	2	2
LDR45A*	"	10	10	25	25	34	2	2
LER06A*	SIZE 2	15	15	30	40	48	2	2
LER07A*	"	20	20	40	50	62	2	2
LER08A*	"	20	25	50	60	68	2	2
LER09A*	"	25	30	60	75	80	2	2
LER10A*	SIZE 3	30	40	75	75	96	2	2
KAR75C*	SIZE 4	40	50	100	100	140	2	2

*Please add coil voltage code when ordering.

Thermal Overload Relays - Class 10, Auto/Manual Reset

Part Number	Adjustable Trip Range Type	For Use with Contactors
RT1N	8 to 12	CL00, CL01, CL02, CL25, CL04, CL45
RT1P	10 to 16	CL00, CL01, CL02, CL25, CL04, CL45
RT2B	14.5 to 19	CL06, CL07, CL08, CL09, CL10
RT2D	24 to 32	CL06, CL07, CL08, CL09, CL10
RT2E	30 to 43	CL06, CL07, CL08, CL09, CL10
RT2G	42 to 55	CL06, CL07, CL08, CL09, CL10
RT2H	54 to 65	CL07, CL08, CL09, CL10
RT2J	64 to 82	CL08, CL09, CL10
RT2L	78 to 97	CL10
RT2M	90 to 110	CL10

*Additional sizes available

Coil Suffix

Voltage	Suffix
110 - 127	J
220 - 250	N
380 - 415	U
440 - 500	Y

Panel Mount Adapters

Part Number	Fits Overload Type
RTXP	RT1
RT2XP	RT2

Questions? Answers at...

General Electric Control Relays

Series C-2000 Control Relays - 10 amp a/c, 5 amp d/c continuous

Part Number		N/O	N/C
AC Operated	DC Operated		
RL4RA022T*	RL4RD022T*	2	2
RL4RA031T*	RL4RD031T*	3	1
RL4RA040T*	RL4RD040T*	4	0
RL4RA004T*	RL4RD004T*	0	4

*Please add coil voltage suffix when ordering.

Coil Suffix

Part Number	AC	DC
24	1	
48	F	
120	J	
208	L	
240	S	
480	U	
12		B
24		D
48		G
125		K
250		T

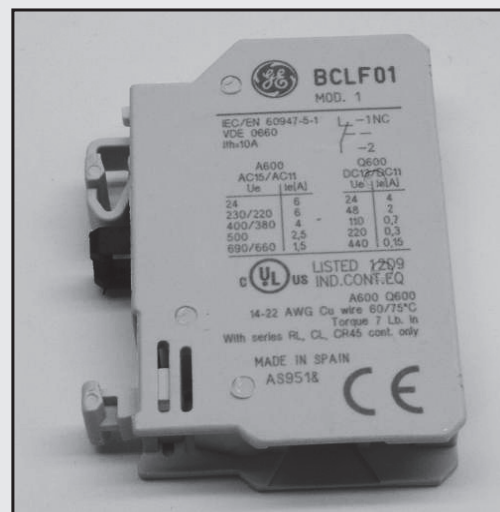
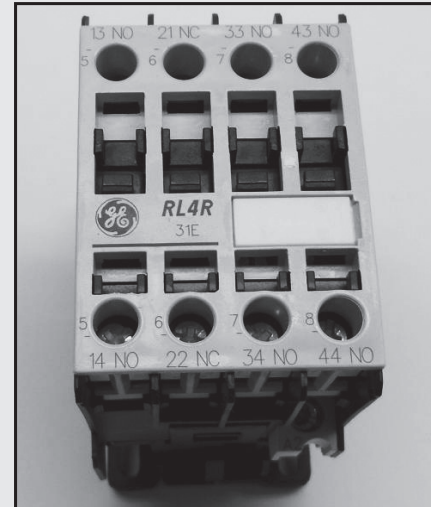
Series C-2000 Aux Blocks

Part Number	N/O	N/C	Mount
BCLF10	1	0	Front
BCLF01	0	1	Front
BCLL11	1	1	Side
BCLL20	2	0	Side
BRLL20	2	0	Side, CK contactors
BRLL11	1	1	Side, CK contactors
BRLL02	0	2	Side, CK contactors

*Please add coil voltage suffix when ordering.

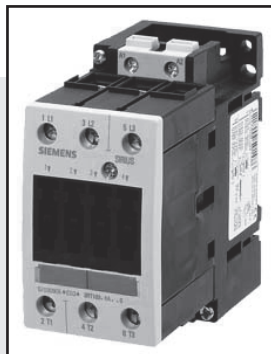
Series C-2000 Accessories

Part Number	Type
BELA02	Mechanical / Electrical interlock, sizes CL00 - CL10
BTLF30C	Pneumatic timer attachment, on-delay 0.1 - 30 sec.
BTLF30D	Pneumatic timer attachment, off-delay 0.1 - 30 sec.
BSLV3G	Varistor surge suppressor module, 24 - 48V AC/DC
BSLV3K	Varistor surge suppressor module, 50 - 127V AC/DC
BSLV3R	Varistor surge suppressor module, 130 - 250V AC/DC



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Siemens 3-Pole AC Contactors

Sirius Non-Reversing Three Pole Contactors

Part Number*	Nema Equivalents	Maximum Horsepower Ratings 3-phase 50/60 Hz					Maximum Inductive		Aux	
		200/230V	380/400V	415/440V	500V	(Amps)	N/O	N/C		
3RT1023-1A*0	Size 00	2	3	5	7.5	9	0	0		
3RT1024-1A*0	3RT1024-1B*0	3	3	7.5	10	12	0	0		
3RT1025-1A*0	3RT1025-1B*0	5	5	10	15	17	0	0		
3RT1026-1A*0	3RT1026-1B*0	7.5	7.5	15	20	25	0	0		
3RT1033-1A*0	3RT1033-1B*0	7.5	10	20	25	28	0	0		
3RT1034-1A*0	3RT1034-1B*0	10	10	25	30	32	0	0		
3RT1035-1A*0	3RT1035-1B*0	10	15	30	40	40	0	0		
3RT1036-1A*0	3RT1036-1B*0	15	15	40	50	50	0	0		
3RT1044-1A*0	3RT1044-1B*0	20	25	50	60	65	0	0		
3RT1045-1A*0	3RT1045-1B*0	25	30	60	75	80	0	0		
3RT1046-1A*0	3RT1046-1B*0	30	30	75	100	95	0	0		
3RT1054-6A*6	3RT1054-6A*6	40	50	100	125	115	2	2		
3RT1055-6A*6	3RT1055-6A*6	50	60	125	150	150	2	2		

*Please add coil voltage code when ordering.

Sirius Accessories

Part Number	Type
3RA1924-2B	Mechanical / Electrical interlock, sizes S0 - S3
3RA1922-2D	Dovetail connector, for joining S0 contactors together
3RA1932-2D	Dovetail connector, for joining S2 & S3 contactors together
3RT1926-1BB00	Varistor surge suppressor module, 24 - 48VAC, 24 - 70VDC
3RT19261BD00	Varistor surge suppressor module, 127 - 240VAC, 150 - 250VDC

*Additional types available.

Coil Suffix 3RT1054 & 56

Voltage	AC/DC Suffix
23 - 26	B3
110 - 127	F3
220 - 240	P3
440 - 480	R3
575 - 600	T3

Coil Suffix 3RT1026 - 46

Voltage	AC	DC
24	C2	A4
110		F4
120	K6	
240	P6	
480	V6	
600	T6	

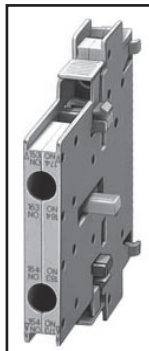
Questions? Answers at...

Siemens Reversing Contactors

Sirius Reversing Contactors

Part Number*	Nema	Maximum Inductive Current Amps	Maximum Horsepower Ratings					Aux	
			3-phase 50/60 Hz					N/O	N/C
AC Operated	Equivalents		200/208V	220/240V	460/480V	575/600V			
3RA1323-8XB30-1A*	Size 00	9	3	3	5	7.5	2	2	
3RA1324-8XB30-1A*	"	12	3	3	7.5	10	2	2	
3RA1325-8XB30-1A*	Size 0	17	5	5	10	15	2	2	
3RA1326-8XB30-1A*	Size 1	25	5	7.5	15	15	2	2	
3RA1334-8XB30-1A*	"	32	10	10	20	25	2	2	
3RA1335-8XB30-1A*	"	40	10	10	25	25	2	2	
3RA1344-8XB30-1A*	Size 2	65	15	15	30	40	2	2	
3RA1345-8XB30-1A*	"	80	20	20	40	50	2	2	
3RA1346-8XB30-1A*	Size 3	95	20	25	50	60	2	2	

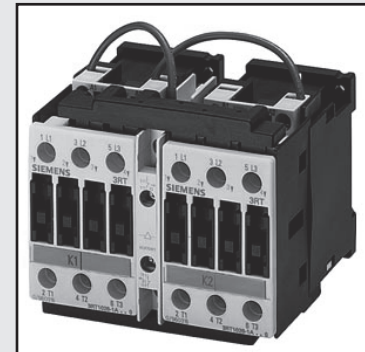
*Please add coil voltage code when ordering.



SIDE MOUNT AUX

Solid State Overload Relays - Class 10/20, Auto/Manual Reset

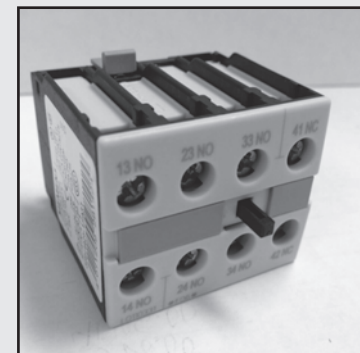
	Adjustable	
	Trip Range	
Voltage	(Amps)	Direct mount with Contactors
3RB2026-1SB0	3 to 12	S0
3RB2026-1QB0	6 to 25	S0
3RB2036-1UB0	12.5 to 50	S2
3RB2046-1EB0	25 to 100	S3 with busbar
3RB2133-4UB0	12.5 to 50	Separately Mounted
3RB2143-4EW1	25 to 100	Separately Mounted480



Sirius Contactor Aux Blocks

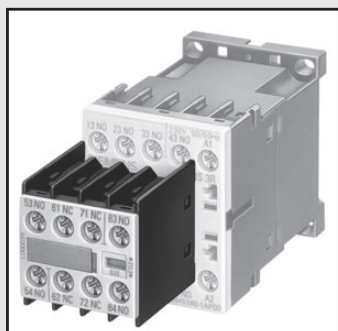
Part Number	N/O	N/C	Mount
3RH1921-1FA22	2	2	Front, sizes S0 - S12
3RH1921-1FA31	3	1	Front, sizes S0 - S12
3RH1921-1FA40	4	0	Front, sizes S0 - S12
3RH1921-1FA40	1	1	Front, sizes S0 - S12
3RH1921-1EA20	2	0	Side, sizes S0 - S12
3RH1921-1EA11	1	1	Side, sizes S0 - S12
3RH1921-1EA02	0	2	Side, sizes S0 - S12

*Additional types available.



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Siemens Control Relays

Sirius Control Relays - 10 amp

Part Number		N/O	N/C
AC Operated	DC Operated		
3RH1122-1A*	3RH1122-1B*	2	2
3RH1131-1A*	3RH1131-1B*	3	1
3RH1140-1A*	3RH1140-1B*	4	0

*Please add coil voltage suffix when ordering.

Coil Suffix

Voltage	AC	DC
24	B0	B4
110		F4
120	K6	
240	P6	
480	V6	
600	T6	

Sirius Control Relay Aux I

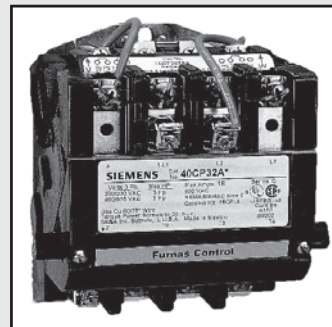
Part Number
3RH1911-1GA40
3RH1911-1GA31
3RH1911-1GA22
3RH1911-1GA13
3RH1911-1GA04

Questions? Answers at...

Class 40 Heavy Duty Contactors

Part Number*	Nema Sizes	Max Inductive Current (Amps)	Maximum Horsepower Ratings 3-phase 50/60 Hz			
			200/208V	220/240V	460/480V	575/600V
40BG32A	Size 00	9	1½	1½	2	2
40CP32A	Size 0	18	3	3	5	5
40DP32A	Size 1	27	7½	7½	10	10
40EP32A	Size 1¾	40	10	10	15	15
40FP32A	Size 2	45	10	15	25	25
40GP32A	Size 2½	60	15	20	30	30
40HP32A	Size 3	90	20	30	50	50
40IP32A	Size 3½	115	30	40	75	75
40JG32A	Size 4	135	40	50	100	100
40KG32A	Size 4½	210	50	75	150	150
40LG32A	Size 5	270	75	100	200	200
40MG32A	Size 6	540	150	200	400	400
40NG32A	Size 7	810		300	600	600
40PG32A	Size 8	1215		450	900	900

*Please add coil voltage code when ordering.



ESP200 Electronic Overload Relays

Part Number	Adjustable Trip Range (Amps)
48ATC3S00	3 to 20
48ATE3S00	10 to 40
48BTG3S00	25 to 100
48BTH3S00	50 to 200

*Additional sizes available

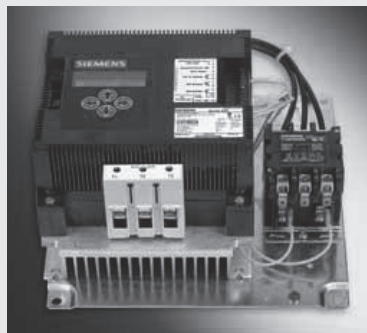
Coil Voltage Codes

AC Volts	Code
24 Separate Control	J
120 Separate Control	F
110-120 / 220-240	A
200-208	D
220-240	G
277	L
220-240 / 440-480	C
440-480	H
550-600	E



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Siemens Hydraulic Elevator Starters

Part Number	LINE Connected			Rated Current	Overload	Current Limit
120VAC	200 - 460V H.P. Ratings				Range	Range
Control Voltage	200V	230V	460V	(Amps)	(Amps)	(Amps)
72GG34AFP		5	10	18	6...25	24...85
72HG34AFP	5	7.5	15	22	8...30	28...103
72JG34AFP	7.5	10	20	28	10...39	36...135
72KG34AFP	7.5	10	25	35	13...49	45...166
72LG34AFP	10	15	30	42	15...57	53...196
72MG34AFP	15	20	40	55	20...75	70...257
72NG34AFP	20	25	50	68	24...93	87...319
72PG34AFP	25	30	60	80	29...112	104...382
72RG32AFP	40	50		130	48...181	168...618

Part Number	LINE Connected		Rated Current	Overload	Current Limit
120VAC	460 - 575V H.P. Ratings			Range	Range
Control Voltage	460V	575V	(Amps)	(Amps)	(Amps)
72GG34AFP	10	15	18	6...25	24...85
72HG34AFP	15	20	22	8...30	28...103
72JG34AFP	20	25	28	10...39	36...135
72KG34AFP	25	30	35	13...49	45...166
72LG34AFP	30	40	42	15...57	53...196
72MG34AFP	40	50	55	20...75	70...257
72NG34AFP	50	60	68	24...93	87...319
72PG34AFP	60	75	80	29...112	104...382

Part Number	DELTA Connected				Overload	Current Limit
120VAC	200 - 460V H.P. Ratings			Rated Current	Range	Range
Control Voltage	200V	230V	460V	(Amps)	(Amps)	(Amps)
72EG34AFP	5	7.5	15	22	7...27	26...94
72GG34AFP	7.5	10	25	35	12...44	41...148
72HG34AFP	10	15	30	42	14...53	49...179
72JG34AFP	15	20	40	55	18...69	64...234
72KG34AFP	20	25	50	68	22...85	79...289
72LG34AFP	25	30	60	80	26...100	93...340
72MG34AFP	30	40	75	105	35...131	121...447
72NG34AFP	40	50	100	130	43...163	151...553
72PG34AFP	50	60	125	156	52...196	181...663
72RG32AFP	75	100		252	83...315	292...1071

Part Number	DELTA Connected		Rated Current	Overload Ratings	Current Limit Range
120VAC	460 - 575V H.P.				
Control Voltage	460V	575V	(Amps)	(Amps)	(Amps)
72EG34AFP	15	20	22	7...27	26...94
72GG34AFP	25	30	35	12...44	41...148
72HG34AFP	30	40	42	14...53	49...179
72JG34AFP	40	50	55	18...69	64...234
72KG34AFP	50	60	68	22...85	79...289
72LG34AFP	60	75	80	26...100	93...340
72MG34AFP	75	100	105	35...131	121...447
72NG34AFP	100	125	130	43...163	151...553
72PG34AFP	125	150	156	52...196	181...663

Questions? Answers at...

CED Contactor Cross Reference Table



4

■ CONTACTORS, STARTERS, RELAYS & TIMERS ■

NEW Sprecher & Schuh "CA7" #	Obsolete Sprecher & Schuh "CA3" #	Obsolete G.E. Spectra 700 & CA5F #	G.E. 2000 Series #	Obsolete Siemens World Series #	Siemens Sirius Series #
CA7-9-10-120	CA3-9-10-120-N0	1 N.O. & 1 N.C. Aux Blocks as Listed	CL00A311TJ	3TF4022-0A	No Aux Blocks as Listed
CA7-9-10-120	CA3-9-10-120-N0	CR7CAA	CL00A311TJ	3TF4022-0AK6	3RT1023-1AK60
CA7-9-01-120	CA3-9-01-120-N0	CR7CAA	CL00A311TJ	3TF4022-0AK6	3RT1023-1AK60
CA7-9-10-220W	CA3-9-10-208-N0	CR7CAE	CL00A311TL	3TF4022-0AM2	3RT1023-1AM20
CA7-9-01-220W	CA3-9-01-208-N0	CR7CAE	CL00A311TL	3TF4022-0AM2	3RT1023-1AM20
CA7-9-10-220W	CA3-9-10-220-N0	CR7CAB	CL00A311TS	3TF4022-0AP6	3RT1023-1AN20
CA7-9-01-220W	CA3-9-01-220-N0	CR7CAB	CL00A311TS	3TF4022-0AP6	3RT1023-1AN20
CA7-9-10-480	CA3-9-10-480-N0	CR7CAC	CL00A311TU	3TF4022-0AV0	3RT1023-1AV60
CA7-9-01-480	CA3-9-01-480-N0	CR7CAC	CL00A311TU	3TF4022-0AV0	3RT1023-1AV60
CA7-12-10-120	CA3-12-10-120-N0	CR7CBA	CL01A311TJ	3TF4122-0AK6	3RT1024-1AK60
CA7-12-01-120	CA3-12-01-120-N0	CR7CBA	CL01A311TJ	3TF4122-0AK6	3RT1024-1AK60
CA7-12-10-220W	CA3-12-10-208-N0	CR7CBE	CL01A311TL	3TF4122-0AM2	3RT1024-1AM20
CA7-12-01-220W	CA3-12-01-208-N0	CR7CBE	CL01A311TL	3TF4122-0AM2	3RT1024-1AM20
CA7-12-10-220W	CA3-12-10-220-N0	CR7CBB	CL01A311TS	3TF4122-0AP6	3RT1024-1AN20
CA7-12-01-220W	CA3-12-01-220-N0	CR7CBB	CL01A311TS	3TF4122-0AP6	3RT1024-1AN20
CA7-12-10-480	CA3-12-10-480-N0	CR7CBC	CL01A311TU	3TF4122-0AV0	3RT1024-1AV60
CA7-12-01-480	CA3-12-01-480-N0	CR7CBC	CL01A311TU	3TF4122-0AV0	3RT1024-1AV60
CA7-16-10-120	CA3-16-10-120-N0	CR7CCA	CL02A311TJ	3TF4222-0AK6	3RT1025-1AK60
CA7-16-01-120	CA3-16-01-120-N0	CR7CCA	CL02A311TJ	3TF4222-0AK6	3RT1025-1AK60
CA7-16-10-220W	CA3-16-10-208-N0	CR7CCE	CL02A311TL	3TF4222-0AM2	3RT1025-1AM20
CA7-16-01-220W	CA3-16-01-208-N0	CR7CCE	CL02A311TL	3TF4222-0AM2	3RT1025-1AM20
CA7-16-10-220W	CA3-16-10-220-N0	CR7CCB	CL02A311TS	3TF4222-0AP6	3RT1025-1AN20
CA7-16-01-220W	CA3-16-01-220-N0	CR7CCB	CL02A311TS	3TF4222-0AP6	3RT1025-1AN20
CA7-16-10-480	CA3-16-10-480-N0	CR7CCC	CL02A311TU	3TF4222-0AV0	3RT1025-1AV60
CA7-16-01-480	CA3-16-01-480-N0	CR7CCC	CL02A311TU	3TF4222-0AV0	3RT1025-1AV60
CA7-23-10-120	CA3-23-10-120-N0	CR7CEA	CL25A311TJ	3TF4322-0AK6	3RT1026-1AK60
CA7-23-01-120	CA3-23-01-120-N0	CR7CEA	CL25A311TJ	3TF4322-0AK6	3RT1026-1AK60
CA7-23-10-220W	CA3-23-10-208-N0	CR7CEE	CL25A311TL	3TF4322-0AM2	3RT1026-1AM20
CA7-23-01-220W	CA3-23-01-208-N0	CR7CEE	CL25A311TL	3TF4322-0AM2	3RT1026-1AM20
CA7-23-10-220W	CA3-23-10-220-N0	CR7CEB	CL25A311TS	3TF4322-0AP6	3RT1026-1AN20
CA7-23-01-220W	CA3-23-01-220-N0	CR7CEB	CL25A311TS	3TF4322-0AP6	3RT1026-1AN20
CA7-23-10-480	CA3-23-10-480-N0	CR7CEC	CL25A311TU	3TF4322-0AV0	3RT1026-1AV60
CA7-23-01-480	CA3-23-01-480-N0	CR7CEC	CL25A311TU	3TF4322-0AV0	3RT1026-1AV60
CA7-30-00-120	CA3-30-10-120-N0	CR7CFA	CL04A311MJ*	3TF4422-0AK6	3RT1033-1AK60
CA7-30-00-120	CA3-30-01-120-N0	CR7CFA	CL04A311MJ*	3TF4422-0AK6	3RT1033-1AK60
CA7-30-00-220W	CA3-30-10-208-N0	CR7CFE	CL04A311ML*	3TF4422-0AM2	3RT1033-1AM20
CA7-30-00-220W	CA3-30-01-208-N0	CR7CFE	CL04A311ML*	3TF4422-0AM2	3RT1033-1AM20
CA7-30-00-220W	CA3-30-10-220-N0	CR7CFB	CL04A311MS*	3TF4422-0AP6	3RT1033-1AN20
CA7-30-00-220W	CA3-30-01-220-N0	CR7CFB	CL04A311MS*	3TF4422-0AP6	3RT1033-1AN20
CA7-30-00-480	CA3-30-10-480-N0	CR7CFC	CL04A311MU*	3TF4422-0AV0	3RT1033-1AV60
CA7-30-00-480	CA3-30-01-480-N0	CR7CFC	CL04A311MU*	3TF4422-0AV0	3RT1033-1AV60
CA7-37-00-120	CA3-37-120-N0	CR7CGA	CL45A311MJ*	3TF4522-0AK6	3RT1034-1AK60
CA7-37-00-220W	CA3-37-208-N0	CR7CGE	CL45A311ML*	3TF4522-0AM2	3RT1034-1AM20
CA7-37-00-220W	CA3-37-220-N0	CR7CGB	CL45A311MS*	3TF4522-0AP6	3RT1034-1AN20
CA7-37-00-480	CA3-37-480-N0	CR7CGC	CL45A311MU*	3TF4522-0AV0	3RT1034-1AV60
CA7-43-00-120	CA3-43-120-N0	CR7CHA	CL06A311MJ*	3TF4622-0AK6	3RT1035-1AK60
CA7-43-00-220W	CA3-43-208-N0	CR7CHE	CL06A311ML*	3TF4622-0AM2	3RT1035-1AM20
CA7-43-00-220W	CA3-43-220-N0	CR7CHB	CL06A311MS*	3TF4622-0AP6	3RT1035-1AN20
CA7-43-00-480	CA3-43-480-N0	CR7CHC	CL06A311MU*	3TF4622-0AV0	3RT1035-1AV60
CA7-60-00-120	CA3-60-120-N0	CR7CJA	CL07A311MJ*	3TF4722-0AK6	3RT1036-1AK60
CA7-60-00-220W	CA3-60-208-N0	CR7CJE	CL07A311ML*	3TF4722-0AM2	3RT1036-1AM20
CA7-60-00-220W	CA3-60-220-N0	CR7CJB	CL07A311MS*	3TF4722-0AP6	3RT1036-1AN20
CA7-60-00-480	CA3-60-480-N0	CR7CJC	CL07A311MU*	3TF4722-0AV0	3RT1036-1AV60
CA7-72-00-120	CA3-72-120-N0	CR7CKA	CL08A311MJ		3RT1044-1AK60
CA7-72-00-220W	CA3-72-208-N0	CR7CKE	CL08A311ML		3RT1044-1AM20
CA7-72-00-220W	CA3-72-220-N0	CR7CKB	CL08A311MS		3RT1044-1AN20
CA7-72-00-480	CA3-72-480-N0	CR7CKC	CL08A311MU		3RT1044-1AV60
CA7-85-00-120			CL09A311MJ	3TF4822-0AK6	3RT1045-1AK60
CA7-85-00-220W			CL09A311ML	3TF4822-0AM2	3RT1045-1AM20
CA7-85-00-220W			CL09A311MS	3TF4822-0AP6	3RT1045-1AN20
CA7-85-00-480			CL09A311MU	3TF4822-0AV0	3RT1045-1AV60
CA6-105-EI-11-120	CA1-60-120-N0	CA5F2A22110B	CL10A311MJ	3TF5022-0AK6	
CA6-105-EI-11-208	CA1-60-208-N0	CA5F2A22208S	CL10A311ML	3TF5022-0AM2	
CA6-105-EI-11-220	CA1-60-220-N0	CA5F2A22220B	CL10A311MS	3TF5022-0AP6	
CA6-105-EI-11-480	CA1-60-480-N0	CA5F2A22480S	CL10A311MU	3TF5022-0AV0	
CA6-140-EI-11-120	CA1-100-120-N0	CA5F3A22110B	CK75CE311J	3TF5122-0AK6	3RT1055-6AF36
CA6-140-EI-11-208	CA1-100-208-N0	CA5F3A22208S	CK75CE311L	3TF5122-0AM2	3RT1055-6AM36
CA6-140-EI-11-220	CA1-100-220-N0	CA5F3A22220B	CK75CE311N	3TF5122-0AP6	3RT1055-6AM36
CA6-140-EI-11-480	CA1-100-480-N0	CA5F3A22480S	CK75CE311Y	3TF5122-0AV0	3RT1055-6AR36

Note:

* If you are using an S&S contactor to replace this G.E. contactor in an application where the motor voltage is 208 VAC, go up one size on the S&S contactor.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

4.21

CED Contactor Cross Reference Table

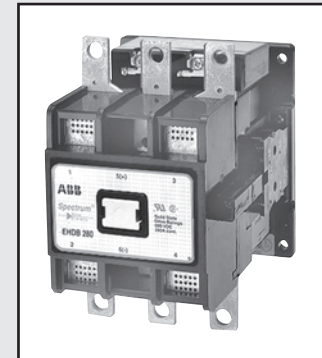
NEW Sprecher & Schuh "CA7" #	Cutler-Hammer Freedom Series I.E.C. #	Furnas 1 N.O. Aux Block as Listed	Obsolete Telemecanique D-Line #	Telemecanique TeSys #
CA7-9-10-120	No Aux Block as Listed		LC1D0910-G6	1 N.O. & N.C. Aux Blocks as Listed
CA7-9-10-120	CE15BNS3AB	40BG32AF or (AA)	LC1D0910G6	LC1D09G7
CA7-9-01-120	CE15BNS3AB		LC1D0901G6	LC1D09G7
CA7-9-10-220W	CE15BNS3EB	40BG32AD	LC1D0910L6	LC1D09LE7
CA7-9-01-220W	CE15BNS3EB		LC1D0901L6	LC1D09LE7
CA7-9-10-220W	CE15BNS3BB	40BG32AG or (AA)	LC1D0910M6	LC1D09M7
CA7-9-01-220W	CE15BNS3BB		LC1D0901M6	LC1D09M7
CA7-9-10-480	CE15BNS3CB	40BG32AH	LC1D0910T6	LC1D09T7
CA7-9-01-480	CE15BNS3CB		LC1D0901T6	LC1D09T7
CA7-12-10-120	CE15CNS3AB		LC1D1210G6	LC1D12G7
CA7-12-01-120	CE15CNS3AB		LC1D1201G6	LC1D12G7
CA7-12-10-220W	CE15CNS3EB		LC1D1210L6	LC1D12LE7
CA7-12-01-220W	CE15CNS3EB		LC1D1201L6	LC1D12LE7
CA7-12-10-220W	CE15CNS3BB		LC1D1210M6	LC1D12M7
CA7-12-01-220W	CE15CNS3BB		LC1D1201M6	LC1D12M7
CA7-12-10-480	CE15CNS3CB		LC1D1210T6	LC1D12T7
CA7-12-01-480	CE15CNS3CB		LC1D1201T6	LC1D12T7
CA7-16-10-120	CE15DNS3AB	40CP32AF or (AA)	LC1D1810G6	LC1D18G7
CA7-16-01-120	CE15DNS3AB		LC1D1801G6	LC1D18G7
CA7-16-10-220W	CE15DNS3EB	40CP32AD	LC1D1810L6	LC1D18LE7
CA7-16-01-220W	CE15DNS3EB		LC1D1801L6	LC1D18LE7
CA7-16-10-220W	CE15DNS3BB	40CP32AG or (AA)	LC1D1810M6	LC1D18M7
CA7-16-01-220W	CE15DNS3BB		LC1D1801M6	LC1D18M7
CA7-16-10-480	CE15DNS3CB	40CP32AH	LC1D1810T6	LC1D18T7
CA7-16-01-480	CE15DNS3CB		LC1D1801T6	LC1D18T7
CA7-23-10-120	CE15ENS3AB		LC1D2510G6	LC1D25G7
CA7-23-01-120	CE15ENS3AB		LC1D2501G6	LC1D25G7
CA7-23-10-220W	CE15ENS3EB		LC1D2510L6	LC1D25LE7
CA7-23-01-220W	CE15ENS3EB		LC1D2501L6	LC1D25LE7
CA7-23-10-220W	CE15ENS3BB		LC1D2510M6	LC1D25M7
CA7-23-01-220W	CE15ENS3BB		LC1D2501M6	LC1D25M7
CA7-23-10-480	CE15ENS3CB		LC1D2510T6	LC1D25T7
CA7-23-01-480	CE15ENS3CB		LC1D2501T6	LC1D25T7
CA7-30-00-120	CE15FNS3AB	40DP32AF or (AA)	LC1D3210G6	LC1D32G7
CA7-30-00-120	CE15FNS3AB		LC1D3201G6	LC1D32G7
CA7-30-00-220W	CE15FNS3EB	40DP32AD	LC1D3210L6	LC1D32LE7
CA7-30-00-220W	CE15FNS3EB		LC1D3201L6	LC1D32LE7
CA7-30-00-220W	CE15FNS3BB	40DP32AG or (AA)	LC1D3210M6	LC1D32M7
CA7-30-00-220W	CE15FNS3BB		LC1D3201M6	LC1D32M7
CA7-30-00-480	CE15FNS3CB	40DP32AH	LC1D3210T6	LC1D32T7
CA7-30-00-480	CE15FNS3CB		LC1D3201T6	LC1D32T7
CA7-37-00-120	CE15GNS3AB	40EP32AF or (AA)	LC1D4011G6	LC1D40G7
CA7-37-00-220W	CE15GNS3EB	40EP32AD	LC1D4011L6	LC1D40L7
CA7-37-00-220W	CE15GNS3BB	40EP32AG or (AA)	LC1D4011M6	LC1D40M7
CA7-37-00-480	CE15GNS3CB	40EP32AH	LC1D4011T6	LC1D40T7
CA7-43-00-120	CE15HNS3AB	40FP32AF or (AA)	LC1D5011G6	LC1D50G7
CA7-43-00-220W	CE15HNS3EB	40FP32AD	LC1D5011L6	LC1D50L7
CA7-43-00-220W	CE15HNS3BB	40FP32AG or (AA)	LC1D5011M6	LC1D50M7
CA7-43-00-480	CE15HNS3CB	40FP32AH	LC1D5011T6	LC1D50T7
CA7-60-00-120	CE15JNS3AB	40GP32AF or (AA)	LC1D6511G6	LC1D65G7
CA7-60-00-220W	CE15JNS3EB	40GP32AD	LC1D6511L6	LC1D65L7
CA7-60-00-220W	CE15JNS3BB	40GP32AG or (AA)	LC1D6511M6	LC1D65M7
CA7-60-00-480	CE15JNS3CB	40GP32AH	LC1D6511T6	LC1D65T7
CA7-72-00-120	CE15KNS3AB			
CA7-72-00-220W	CE15KNS3EB			
CA7-72-00-220W	CE15KNS3BB			
CA7-72-00-480	CE15KNS3CB			
CA7-85-00-120	CE15LN3A	40HP32AF or (AA)	LC1D8011G6	LC1D80G7
CA7-85-00-220W	CE15LN3E	40HP32AD	LC1D8011L6	LC1D80L7
CA7-85-00-220W	CE15LN3B	40HP32AG or (AA)	LC1D8011M6	LC1D80M7
CA7-85-00-480	CE15LN3C	40HP32AH	LC1D8011T6	LC1D80T7
CA6-105-EI-11-120	CE15MN3A	40IP32AF or (AA)	LC1F15G6 or LC1D11500G6	LC1D115G7
CA6-105-EI-11-208	CE15MN3E	40IP32AD	LC1F15L6 or LC1D11500L6	LC1D115L7
CA6-105-EI-11-220	CE15MN3B	40IP32AG or (AA)	LC1F15M6 or LC1D11500M6	LC1D115M7
CA6-105-EI-11-480	CE15MN3C	40IP32AH	LC1F15T6 or LC1D11500T6	LC1D115T7
CA6-140-EI-11-120	CE15NN3A	40JG32AF or (AA)	LC1F150G6 or LC1D15000G6	LC1D150G7
CA6-140-EI-11-208	CE15NN3E	40JG32AD	LC1F150L6 or LC1D15000L6	LC1D150L7
CA6-140-EI-11-220	CE15NN3B	40JG32AG or (AA)	LC1F150M6 or LC1D15000M6	LC1D150M7
CA6-140-EI-11-480	CE15NN3C	40JG32AH	LC1F150T6 or LC1D15000T6	LC1D150T7

Notes: If you are using an S&S contactor to replace this G.E. contactor in an application where the motor voltage is 208 VAC, go up one size on the S&S contactor.
 Aux block configurations differ slightly between mfrs, but nomenclature is common with 1st character indicating N.O. & 2nd character indicating N.C. See examples to determine part# placement per mfr. Configurations in chart are the most commonly found in elevator systems.

ABB DC Drive Contactors

Part Number* 2-Pole (2 N.O)	Part Number* 3-Pole (2N.O.& 1 N.C.)	Maximum Amp Ratings		Thermal Amp Rating 600 VDC	Aux	
		Make 300 VDC	Break 160 VDC		N/O	N/C
EHDB220C2P-1L	EHDB220C-1L	450	285	220	1	1
EHDB280C2P-1L	EHDB280C-1L	565	363	280	1	1
EHDB360C2P-1L	EHDB360C-1L	728	472	380	1	1
EHDB520C2P-1L	EHDB520C-1L	1040	680	520	1	1
EHDB650C2P-1L	EHDB650C-1L	1300	850	650	1	1
EHDB800C2P-1L	EHDB800C-1L	1600	1050	800	1	1
EHDB960C2P-1L	EHDB960C-1L	1920	1250	950	1	1

*Please add coil voltage code when ordering.



Coil Voltage Codes

	24	48	110	120	125	208	220	240	277	380	415	440	480	500	600
60 Hz	F	G		1		B	2	2	C			3	4		6
50 Hz	N		1				J			3	4			6	
DC	Y	W	P		Q		R					T			

Auxiliary Contacts

Part Number	Terminal Marking	
	N.O.	N.C.
CAL16-11A	1	1
CAL16-11B	1	1
CAL16-11C	1	1
CAL16-11D	1	1
CAL16-11E	1*	1*

*Late break, early make.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

RELAY PART NUMBER KEY

GPS	2PDT	L	120AC
Relay Type	Contacts	Options	Coil Voltage

Relay Part Numbering System & Open Power Relays

Relay Part Numbering System

The relays offered in this catalog are manufactured by a variety of manufacturers including Magnecraft & Struthers-Dunn (MSD), Cyberdyn Systems, Potter & Brumfield, Idec, Line Electric, Square D, and others. The part numbers have been created to simplify ordering. All relays are UL & CSA listed.

Open Power Relay Types

OPR = Open Power Relay

Contact Configuration

2PST = Two Pole Single Throw

2PDT = Two Pole Double Throw

4PDT = Four Pole Double Throw

Options

A = (1) SPDT Aux Contact

B = Magnetic Blowout

Plug-in Relay Types

GPS = General Purpose Square Base

GPO = General Purpose Octal Base

GPM = General Purpose Miniature

IC = Ice Cube Style

Contact Configuration

2PDT = Two Pole Double Throw

3PDT = Three Pole Double Throw

4PDT = Four Pole Double Throw

B4PDT = Bifurcated Four Pole Double Throw

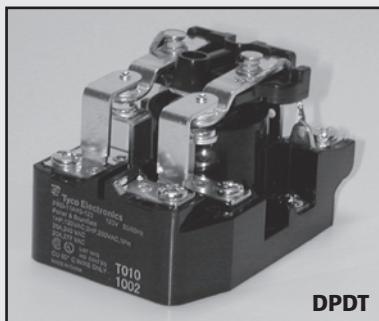
Options

L = LED

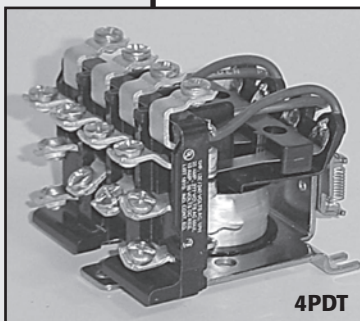
PB = Push Button

Open Power Relays

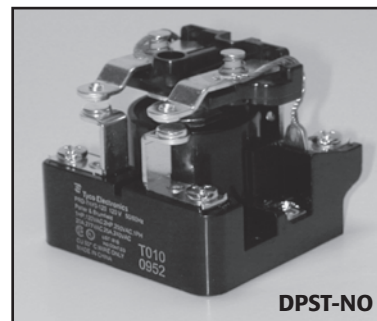
Please see opposite page for product specifications.



DPDT



4PDT



DPST-NO

Questions? Answers at...

Open Power Relays

Please see opposite page for product representations.



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■ CONTACTORS, STARTERS, RELAYS & TIMERS ■

CED Part Number	Dover Number	Dover Print	Mont-gomery	Westing-house	Contacts	Mag. Blowout	Coil Number	PRD Number	PR Number	P&B Number	MSD Number
OPR2PST6AC					DPST-NO		6AC			PRD7AY06	199AX-6
OPR2PST12AC				H3088H03	DPST-NO		12AC			PRD7AY012	199AX-7
OPR2PST24AC					DPST-NO		24AC			PRD7AY024	W199AX-8
OPR2PST120AC	9713256	71979		H3088H013	DPST-NO		120AC	PRD60399	PR2819	PRD7AY0120	W199AX-9
OPR2PSTA120AC	9713104	75320			DPST-NO w/AUX		120AC	PRD60442	PR32741		
OPR2PSTB120AC	9741008, 9715423	71924			DPST-NO	YES	120AC	PRD60440 PR3973	PR3723,	PRD7AH0120	199ABX-9
OPR2PST240AC	9713219, 9713268	71923, 72102	19240	H3088H02, H3088H016	DPST-NO		240AC	PRD60439, PRD11400, PRD60441	PR2710, PR2679, PR2820	PRD7AY0240	W199AX-10
OPR2PSTB240AC				H3088H01	DPST-NO	YES	240AC		PR1881	PRD7AH0240	
OPR2PST12DC			504742-12	H3088H020	DPST-NO		12DC			PRD7DY012	
OPR2PSTBDC	9909151, 9836676, 9776345	126673, 112634			DPST-NO	YES	12DC	PRD60581, PRD60162-1		PRD7DH012	199BX-7
OPR2PST24DC	9768257	76825	504742-024		DPST-NO		24DC	PRD60402	PR7DY024	PRD7DY024	W199X-8
OPR2PSTB24DC	9847054	147054			DPST-NO	YES	24DC	PRD60854	PR7DM, PRD60854	PRD7DH024	
OPR2PST48DC	9772698, 9769020, 9772686	77269, 77268, 76902	504742-048		DPST-NO		48DC	PRD60397	PR80075, PR80076	PRD7DY048	199X-17
OPR2PSTB48DC	9769018	76901	504640-048		DPST-NO	YES	48DC	PRD60396	PR7DM, PR80033	PRD7DH048	199BX-17
OPR2PST110DC				H3088H05, H3088H018, H3088H019	DPST-NO		110DC	PRD60520		PRD7DY0110	199X-9
OPR2PSTB110DC	9740145, 9741185	72104, 72768		H3088H015	DPST-NO	YES	110DC		PR3975	PRD7DH0110	199BX-9
OPR2PDT6AC					DPDT		6AC			PRD11AY06	
OPR2PDT12AC					DPDT		12AC			PRD11AY012	
OPR2PDTB12AC					DPDT	YES	12AC			PRD11AY012	
OPR2PDT24AC			28383, 502868-024		DPDT		24AC		PR2900	PRD11AY024	W199AX-13
OPR2PDTB24AC					DPDT	YES	24AC			PRD11AH024	
OPR2PDT120AC	9713207, 9741082	71922	19238, 55045, 511541, 502868-120	H3088H017	DPDT		120AC	PRD60438	PR2709, PR2678, PR2735	PRD11AY0120	W199AX-14
OPR2PDTA120AC	9755240	75524			DPDT w/AUX		120AC	PRD60444	PR11AL5		
OPR2PDTB120AC			55646, 514198-120		DPDT	YES	120AC			PRD11AH0120	W199ABX-14
OPR2PDT240AC	9713219	22419, 502868-240		H3088H011, H3088H014	DPDT		240AC			PRD11AY0240	
OPR2PDTB240AC				H3088H012	DPDT	YES	240AC			PRD11AH0240	
OPR2PDT12DC					DPDT		12DC			PRD11DY012	
OPR2PDTB12DC	9776357, 9742918	112635, 147053	504646-012		DPDT	YES	12DC	PRD604351, PRD608531		PRD11DH012	199BX-12
OPR2PDT24DC	9705533, 9768269	100555, 76826	502823-024		DPDT		24DC	PRD60403, PRD60401	PR11DY	PRD11DY024	W199X-13
OPR2PDTB24DC	9742920	142920			DPDT	YES	24DC	PRD60807		PRD11DH024	199BX-8
OPR2PDT48DC	9768993	76899	502823-048		DPDT		48DC	PRD60394	PR80032, PR3845	PRD11DY048	199X-18
OPR2PDTB48DC	9769043	76900	511099-048		DPDT	YES	48DC	PRD60395, PRD60394	PR3946	PRD11DH048	199BX-18
OPR2PDT110DC	9713360, 9741124, 9741150	72015, 72765, 72762		H3088H06	DPDT		110DC	PRD60398	PR2959, PR2782, PR27863	PRD11DY0110	W199X-14
OPR2PDTB110DC	9720121, 9809144	109149			DPDT	YES	110DC	PRD60816, PRD60521		PRD11DH0110	W199BX-14
OPR2PDT230DC					DPDT		230DC			PRD11DY0230	
OPR2PDTB230DC					DPDT	YES	230DC			PRD11DH0230	
OPR1PSTB24DC					SPST	YES	24DC				199DBX-3
OPR4PDT24AC			500943-024		4PDT		24AC			PM17AY24	
OPR4PDT120AC			500943-120		4PDT		120AC			PM17AY120	
OPR4PDT208AC			500943-208		4PDT		208AC			PM17AY208	
OPR4PDT240AC	9713050		500943-240		4PDT		240AC			PM17AY240	
OPR4PDT110DC					4PDT		110DC			PM17DY110	

Questions? Answers at...

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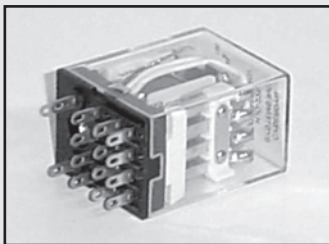
General Purpose Relays

IC [Ice Cube] Series

Contact Config	Coil Voltage	With LED	With LED Bifurcated Contacts	With LED & Push Button Bifurcated Contacts
4PDT	6AC	IC4PDTL6AC	ICB4PDTL6AC	ICB4PDTLPB6AC
4PDT	12AC	IC4PDTL12AC	ICB4PDTL12AC	ICB4PDTLPB12AC
4PDT	24AC	IC4PDTL24AC	ICB4PDTL24AC	ICB4PDTLPB24AC
4PDT	120AC	IC4PDTL120AC	ICB4PDTL120AC	ICB4PDTLPB120AC
4PDT	240AC	IC4PDTL240AC	ICB4PDTL240AC	ICB4PDTLPB240AC
4PDT	6DC	IC4PDTL6DC	ICB4PDTL6DC	ICB4PDTLPB6DC
4PDT	12DC	IC4PDTL12DC	ICB4PDTL12DC	ICB4PDTLPB12DC
4PDT	24DC	IC4PDTL24DC	ICB4PDTL24DC	ICB4PDTLPB24DC
4PDT	48DC	IC4PDTL48DC	ICB4PDTL48DC	ICB4PDTLPB48DC
4PDT	110DC	IC4PDTL110DC	ICB4PDTL110DC	ICB4PDTLPB110DC

OEM Cross Reference

Part Number	Armor Number	Montgomery Number	Westinghouse Number	Dover Number	Otis Number
ICB4PDTL120AC		61306			AAA613CZ9
ICB4PDTL24DC		512961-024			AAA613CZ2
IC4PDTL6DC		44572			
IC4PDTL12DC		48232			
IC4PDTL24DC	13850-01	65952		9954934	
IC4PDTL48DC	13633-01, 13602-01	502871-048		9954946	
IC4PDTL110DC	13632-01, 13603-01	511527-110, 043744			
IC4PDTL6AC		49896			
IC4PDTL12AC		45377			
IC4PDTL24AC		43444			
IC4PDTL120AC	14291-01	45516	2893C24-H07		
IC4PDTL240AC	14296-01	47477			
ICB4PDTL240AC					AAA613CZ7
ICB4PDTL12DC					AAA613CZ10
ICB4PDTL12AC					AAA613CZ13
ICB4PDTL6DC					AAA613CZ20
ICB4PDTLPB120AC				9954922	AAA613CZ22
ICB4PDTLPB48DC					AAA613CZ23



Manufacturer Cross Reference

Manufacturer	Series
Allen-Bradley	700-HC24
Aromat	HC4
Cutler-Hammer	MC4S
Idec	RY4S RY42S
Line Electric	SRE
Midtex	156
Omron*	MY4
P&B*	KHAU
Square D	8501-RS14(AC) 8501-RSD14(DC)
Struthers-Dunn	C281XDX
Cyberdyn*	HJQ22F
Schneider*	RXM
* Stock brands	

Questions? Answers at...

General Purpose Relays

GPM [Miniature] Series

Coil Voltage	With LED	With LED & Push Button
6AC	GPM2PDTL6AC	GPM2PDTLPB6AC
12AC	GPM2PDTL12AC	GPM2PDTLPB12AC
24AC	GPM2PDTL24AC	GPM2PDTLPB24AC
120AC	GPM2PDTL120AC	GPM2PDTLPB120AC
240AC	GPM2PDTL240AC	GPM2PDTLPB240AC
6DC	GPM2PDTL6DC	GPM2PDTLPB6DC
12DC	GPM2PDTL12DC	GPM2PDTLPB12DC
24DC	GPM2PDTL24DC	GPM2PDTLPB24DC
48DC	GPM2PDTL48DC	GPM2PDTLPB48DC
110DC	GPM2PDTL110DC	GPM2PDTLPB110DC

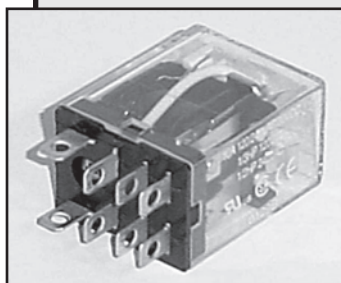
OEM Cross Reference

Part Number	Montgomery Number	US Number	Dover Number	Otis Number
GPM2PDTL110DC			9951854, 9832427	
GPM2PDTL120AC	090210-011		9953048 9715629	
GPM2PDTL12DC	514595			AAA613CZ17
GPM2PDTL24DC	513252		9953700	
GPM2PDTL48DC		930-35053-000	9953887 9719970	
GPM2PDTL12DC		9783295		
GPM2PDTL240AC		9746341		

Manufacturer Cross Reference

Manufacturer	Series
Allen-Bradley	700-HF32
Aromat	HL2
Cutler-Hammer	MP2B
Idec	RH2B
Line Electric	SRT
Midtex	258
Omron*	LY2
P&B*	K10
Square D	8501-RS42
Struthers-Dunn	C281XBX
Schneider*	RPM

* Stock brands



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Manufacturer Cross Reference

Manufacturer Series	DPDT	3PDT
Allen-Bradley	700-HB32	700-HB33
Aromat	HP32	HP33
Cutler-Hammer	D5PR2	D5PR3
Idec	RR2B	RR3B
Line Electric	CRH102C	CRH103C
Midtex	157-22	157-23
P&B*	KUP11	KUP14
Square D	8501-KU12	8501-KU13
Struthers-Dunn	A283XBX	A283XCX
Schneider*	RUMF2	RUMF2

* Stock brands

GPS [Square Base] Series

Contact Config	Coil Voltage	With LED	With LED & Push Button
DPDT	6AC	GPS2PDTL6AC	GPS2PDTLPB6AC
DPDT	12AC	GPS2PDTL12AC	GPS2PDTLPB12AC
DPDT	24AC	GPS2PDTL24AC	GPS2PDTLPB24AC
DPDT	120AC	GPS2PDTL120AC	GPS2PDTLPB120AC
DPDT	240AC	GPS2PDTL240AC	GPS2PDTLPB240AC
DPDT	6DC	GPS2PDTL6DC	GPS2PDTLPB6DC
DPDT	12DC	GPS2PDTL12DC	GPS2PDTLPB12DC
DPDT	24DC	GPS2PDTL24DC	GPS2PDTLPB24DC
DPDT	48DC	GPS2PDTL48DC	GPS2PDTLPB48DC
DPDT	110DC	GPS2PDTL110DC	GPS2PDTLPB110DC
3PDT	6AC	GPS3PDTL6AC	GPS3PDTLPB6AC
3PDT	12AC	GPS3PDTL12AC	GPS3PDTLPB12AC
3PDT	24AC	GPS3PDTL24AC	GPS3PDTLPB24AC
3PDT	120AC	GPS3PDTL120AC	GPS3PDTLPB120AC
3PDT	240AC	GPS3PDTL240AC	GPS3PDTLPB240AC
3PDT	6DC	GPS3PDTL6DC	GPS3PDTLPB6DC
3PDT	12DC	GPS3PDTL12DC	GPS3PDTLPB12DC
3PDT	24DC	GPS3PDTL24DC	GPS3PDTLPB24DC
3PDT	48DC	GPS3PDTL48DC	GPS3PDTLPB48DC
3PDT	110DC	GPS3PDTL110DC	GPS3PDTLPB110DC

OEM Cross Reference

Part Number	Armor Number	Haughton Number	Montgomery Number	US Number	Westinghouse Number	Dover Number	Otis Number
GPS2PDTL240AC			510848-240				
GPS3PDTL240AC			502546-240				
GPS3PDTL48DC			505592-048	930-35030-000			P613AB6
GPS3PDTL110DC			505592-110			9853558	P613AB2, P613AB8, P613AB11, R0613A2 P613AB1
GPS3PDTL120AC			505601-120, 507117, 507200			9853522	P613AB7, P613AB9, P613AB12
GPS3PDT24AC							AAA613CZ14
GPS3PDT120AC							AAA613CZ15
GPS3PDTL24DC	13046-01		505592-024		2893C24-H11	9853534	R0613A1
GPS3PDTL6DC						9853546	
GPS3PDTLPB110DC	11384-01	3-40092-34	507174		2893C24-H02	9853558	P613AB4, P613AB5
GPS3PDTL12AC		3-40092-30					
GPS3PDTL240AC		3-40092-33					
GPS3PDTL240DC	11387-01			930-35033-000			
GPS3PDTL24AC		3-40092-31					
GPS3PDTL48DC	11385-01			930-35030-000	2893C24-H05		

Questions? Answers at...

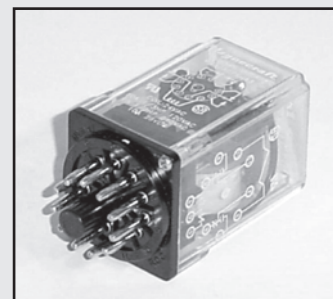
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General Purpose Relays

GPO (Octal Base) Series

Contact Config	Coil Voltage	Basic Relay	With LED & Push Button
DPDT	6AC	GPO2PDT6AC	GPO2PDTLPB6AC
DPDT	12AC	GPO2PDT12AC	GPO2PDTLPB12AC
DPDT	24AC	GPO2PDT24AC	GPO2PDTLPB24AC
DPDT	120AC	GPO2PDT120AC	GPO2PDTLPB120AC
DPDT	240AC	GPO2PDT240AC	GPO2PDTLPB240AC
DPDT	6DC	GPO2PDT6DC	GPO2PDTLPB6DC
DPDT	12DC	GPO2PDT12DC	GPO2PDTLPB12DC
DPDT	24DC	GPO2PDT24DC	GPO2PDTLPB24DC
DPDT	48DC	GPO2PDT48DC	GPO2PDTLPB48DC
DPDT	110DC	GPO2PDT110DC	GPO2PDTLPB110DC
3PDT	6AC	GPO3PDT6AC	GPO3PDTLPB6AC
3PDT	12AC	GPO3PDT12AC	GPO3PDTLPB12AC
3PDT	24AC	GPO3PDT24AC	GPO3PDTLPB24AC
3PDT	120AC	GPO3PDT120AC	GPO3PDTLPB120AC
3PDT	240AC	GPO3PDT240AC	GPO3PDTLPB240AC
3PDT	6DC	GPO3PDT6DC	GPO3PDTLPB6DC
3PDT	12DC	GPO3PDT12DC	GPO3PDTLPB12DC
3PDT	24DC	GPO3PDT24DC	GPO3PDTLPB24DC
3PDT	48DC	GPO3PDT48DC	GPO3PDTLPB48DC
3PDT	110DC	GPO3PDT110DC	GPO3PDTLPB110DC



Manufacturer Cross Reference

Manufacturer Series	DPDT	3PDT
Allen-Bradley	700-HA32	700-HA33
Cutler-Hammer	MR2P	MR3P
Idec	RR2P	RR3PA
Line Electric	MKH2C	MKH3C
Midtex	158-92	
Omron	MK2P	MK3P
P&B	KRPA11	KRPA14
Square D	8501-KP12	8501-KP13
Struthers-Dunn	A314XBX	A314XCX
Schneider*	RUMC2	RUMC3
Finder*	60.12	60.13

* Stock brands

OEM Cross Reference

Part Number	Armor Number	Montgomery Number	Otis Number
GPO1PDT24AC	11350-01		VP-840005
GPO2PDT24DC	11341-01		
GPO1PDT24DC	11344-01		
GPO2PDT6AC	11345-01		
	11347-01		
	12526-01		
GPO2PDT110DC	12574-01		
GPO2PDT240AC	12520-01		
GPO3PDT240AC		502835-240	

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Relay Bases

P&B Number	Midtex Number	Omron Number	MSD Number	Idec Number	Custom Connector	Aromat Number	Figure Number
27E305					CM11-LPCB		1
27E1038			70-478-1	RP-78-604	ES35		
27E1039			70-475-1	RP-78-605	ES50		
27E304	670-0013		70-178-1		CM11-PCB		1
27E488	S258-2SL00	PT08	70-401-1	SH2B-51	GR108-SLD		6
27E006	670-0002	PY14	70-378-1	SY4S-51	MR14-SLD		8
27E031	670-0003	PY14	70-379-1	SY4S-61	MR14-PCB		8
27E067	670-0012		70-124-2		CM11-QDC		1
27E043	670-0009		70-124-1	SR3B-51	CM11-SLD		1
27E489	S258-2PC00	PT08-0	70-402-1	SH2B-62	GR108-PCB		6
20C217		PYC-P	16-1197		HDB-4		10
27E023	670-0033	PY08-02	70-402-1		MR08-PCB-1G	HC2-PS-K	8
27E007	670-0014	PY14-02	70-379-1		MR14-PCB-1G	HC4-PS-K	8
27E895	D258-2TS00	PTF08A-E	70-459-1	SH2B-05	GT08-PC		7
27E894	670-0120	PYF14AE	70-461-1	SY4S-05	MT14-PC		9
27E122*	670-0127	PF083A-E	70-464-1	SR2P-06	OT08-PC		4
27E121	670-0125		70-463-1		SS11-PC		3
		PF083A-E	70-464-1	SR2P-05	OT08-PC		4
27E123	670-0126	PF113A-E	70-465-1	SR3P-06	OT11-PC		5
27E895	D258-2TS00	PYC-A1	16-1197		GT08-PC		7
27E166	670-0120				MT14-PC		9
27E487	S258-2TS00				GR108-PC		6
27E893	D157-3TS00		70-463-1	SR3B-05	ST11-PC		2

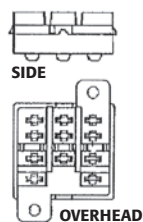


FIGURE 1
Chassis Mount
Square Base

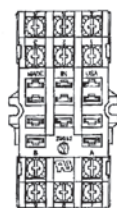


FIGURE 2
Direct or DIN
Rail Mount
Square Base

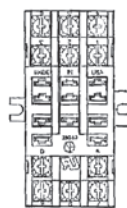


FIGURE 3
Direct Mount
Square Base

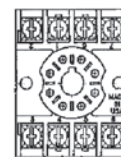


FIGURE 4
8-Pin Direct or DIN
Rail Mount
Octal Base

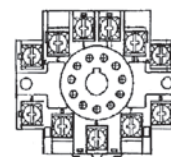


FIGURE 5
11-Pin Direct or DIN
Rail Mount
Octal Base

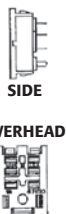


FIGURE 6
Chassis Mount
DPDT
Miniature Base

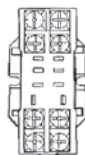


FIGURE 7
Direct or DIN
Rail Mount DPDT
Miniature Base

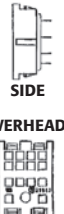


FIGURE 8
Chassis Mount
4PDT
Ice Cube Base



FIGURE 9
Direct or DIN
Rail Mount 4PDT
Ice Cube Base



FIGURE 10
Hold Down
Spring Clip

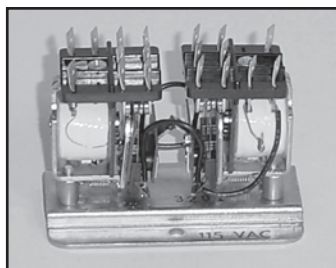
Questions? Answers at...

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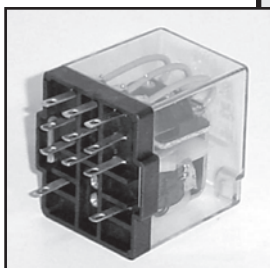
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Miscellaneous & Special Purpose Relays

Manufacturer	Part Number	Description
Line Electric	RL6880	Latching, DPDT Dual 240VAC Coil, Enclosed, Dover 9860095
Line Electric	RL6947	Latching, Dual Coil 115VDC, Open, Dover 9753047, P&B KB1228
Line Electric	1223A120VAC	3PDT, Replaces Guardian 1220-3C-12, A410-361341-01 3PDT, A410-361341-00, A410-361344-00, A410-365633-15
Line Electric	RL5538	Latching, Dual 120VAC Coil, Enclosed
MSD	A103XR100	Dover #15 Contactor, 9871184
MSD	A103XXH100	Dover #14 Contactor, 9871196
Aromat	VC15-4A-AC120V	4N.O. 120VAC (Obsolete, replaced with Omron G7J4ATW1AC100120)
Aromat	VC15-3A1B-AC120V	3N.O. 1N.C. 120VAC (Obsolete, replaced with Omron G7J2A2BTW1AC100120)
Aromat	VC15-2A2B-AC120V-H8	2N.O. 2N.C. 120V with Push Button (Obsolete, replaced with Omron G7J3A1BTW1AC100120)
Aromat	VC15-2A1B-AC120V	2N.O. 1N.C. 120VAC
Aromat	VC15-S3A1B-AC120VD	3N.O. 1N.C. 120VAC, Screw Terminals (Obsolete, replaced with Omron G7J3A1BBW1AC100120)
Omron	LY2D-DC12	DPDT with Diode Surge Suppression on Coil, Dover 9783295
Omron	LY2D-DC24	DPDT with Diode Surge Suppression on Coil, Dover 9783398
Omron	MY4N-D2-DC100/110(S)	4PDT with Diode Surge Suppression on Coil, Dover 9811060
Omron	MY4N-D2-DC24(S)	4PDT with Diode Surge Suppression on Coil, Dover 9791061
Omron	LY4-AC110/120	4PDT 120AC Coil, 10 AMP
Omron	LY4N-AC110/120	4PDT 120AC Coil w/LED, 10 AMP



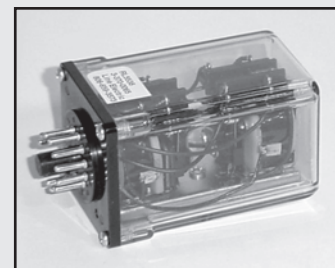
OPEN STYLE, DUAL COIL LATCHING



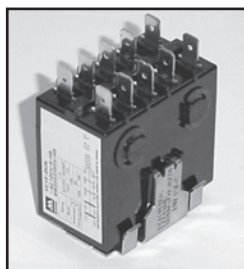
1223A120VAC



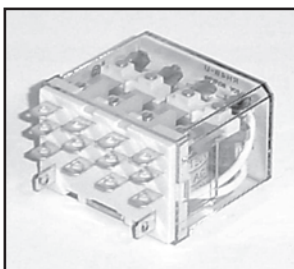
DOVER 14 & 15 CONTACTORS



ENCLOSED, DUAL COIL LATCHING



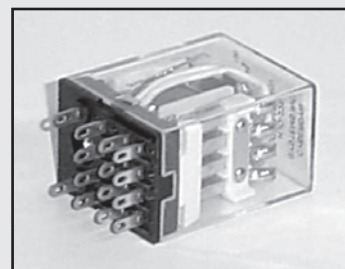
VC15 RELAY



4PDT 10AMP RELAY



DPDT WITH DIODE SURGE SUPPRESSION ON COIL



4PDT WITH DIODE SURGE SUPPRESSION ON COIL

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Phase Monitors

 Part numbers in **bold** are normally in stock.

						Detects Phase				
						Can Use			Loss with	
Description	Manufacturer	Manufacturer Part Number	Phase Loss	Phase Reversal	Over Voltage	Under Voltage	Voltage Unbalance	on Wye or Delta Systems	Regenerated Voltage Present	Figure
Single Phase, Plug-in										
97-130V	Diversified	UOA-120-ALA				•				1
80-130V	Time-Mark	AC260B80-130				•				3
3 Phase, Plug-in										
85-120V	Time-Mark	B258B	•	•		•		•	•	3
160-240V	Time-Mark	258B	•	•		•		•	•	3
200-240V	SSAC	PLM6405	•	•		•	•	•	•	2
200-500V	Macromatic	PMPU	•	•	•	•	•	•		
190-270V	SSAC	PLR240A	•	•		•		•		6
300-400V	Time-Mark	EX258B	•	•		•		•		3
340-450V	SSAC	PLR380A	•	•		•		•		6
380-480V	Time-Mark	A258B	•	•		•		•		3
400-480V	SSAC	PLM9405	•	•		•	•	•	•	2
380-500V	SSAC	PLR480A	•	•		•		•		6
3 Phase, Direct Mount										
450-575V	Time-Mark	D263	•	•		•		•		4
500-600V	SSAC	WLM045A5S	•	•		•	•			not shown
3 Phase, Rail or Direct Mount										
200-500V	SSAC	DLMUBRAAA	•	•	•	•	•	•		
500-600V	SSAC	DLMHBRAAA	•	•	•	•	•	•	•	5

Accessories

Description	Function	Manufacturer	Manufacturer Part Number	Figure
SSAC Adapter Plate	Allows DLM monitors to directly replace Agastat PMBL monitors without drilling new mounting holes	SSAC	P0700-306	5
8-Pin Relay Base	10A 600V, UL & CSA Approved	MSD	70-464	

FIG 1



FIG 4

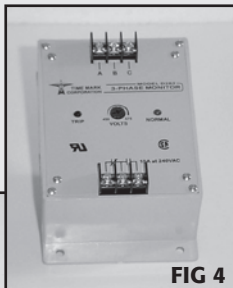


FIG 3



FIG 5



FIG 2

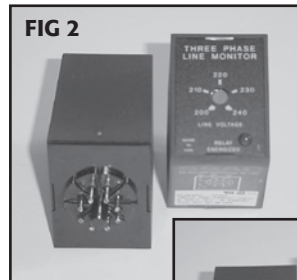


FIG 6


Questions? Answers at...

Timers

Socket Mounted Timers

Part Number	Function	Voltage	Contacts	Range
TDT-24-AKA-010 8-Pin	True Off Delay	24AC/DC	DPDT 10A	.1-10 sec.
TDT-24-AKA-030 8-Pin	True Off Delay	24AC/DC	DPDT 10A	.3-30 sec.
TRM24A2Z10	On Delay	24AC	DPDT 10A	.1-10 sec.
TRM120A2Z10 8-Pin	On Delay	120AC	DPDT 10A	.1-10 sec.
9050JCK13V20 8-Pin	On Delay	120AC 110DC	DPDT 10A	.6-60 sec.
9050JCK23V20 11-Pin	Off Delay	120AC 110 DC	DPDT 10A	.6-60 sec.
TRU3 11-Pin	On/Off Delay Repeat 1-Shot Interval	12-240V AC/DC	DPDT 10A	1 Sec.-9,990 hrs.
TRU1 8-Pin	On Delay	12-240V AC/DC	DPDT 10A	1 Sec.-9,990 hrs.



Solid State Timers

Part Number	Function	Voltage	Output	Range
TDUL3000A	On Delay	24-120AC/DC	1A	.1-102.3 sec.
4300-A-3-1	Interval	24DC	10ma-1A	.1-30 sec.
438U*	On Delay	19-288AC/DC	10ma-1A	1-1000 sec.
438USA	On Delay	19-288 AC/DC	10 ma-1A	1-1024 sec.

*Jumper across timing terminals produces 1-second delay.
Add resistor to increase time (10k per sec.).

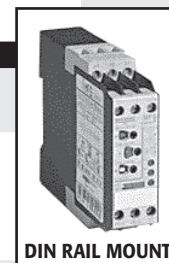


Rail Mount Timers

Part Number	Function	Voltage	Contacts	Range
1SVR630100R3300	On Delay	24, 42-48 AC/DC 110-240AC	SPDT	.05 sec-300 hrs.
1SVR630010R3200	On Delay Off Delay Flasher Star-Delta	24 AC/DC 110-240 AC	(1) SPDT Timed (1) SPDT Instant	.05 sec-300 hrs.
ASQUA3*	On Delay Off Delay Interval 1 Shot, Recycle	24 to 240 AC	Series Output .7 A	.1 sec-100 min.
ASQUD3*	On Delay Off Delay Interval 1 Shot, Recycle	9 to 110 DC	Series Output .7 A	.1 sec-100 min.
1SVR630110R3300	On Delay	24, 42-48 AC/DC 110-240AC	DPDT	.05 Sec-300 hrs.

* Ultra small package 2.41"H x 3.00"L x .69"W.

* Comes with surface and rail mount adapters.



Questions? Answers at...

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Notes



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Full line catalog available upon request

ELECTRICAL & INDUSTRIAL PRODUCTS



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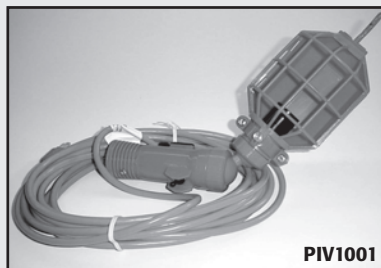
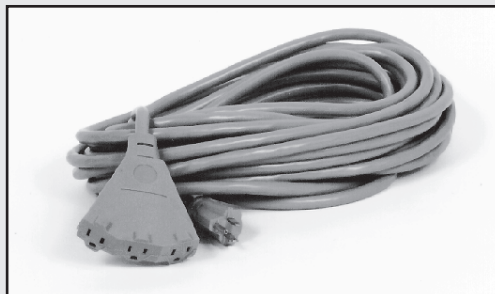
or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

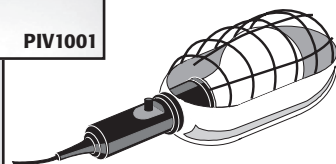
5

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PIV1001



DROP LIGHT WITH CAGE



2250S



2100A



Extension Cords

Bulbs, Lights, Lamp Guards

Outdoor Extension Cords, 50 & 100ft

These cords are made with double insulated, 12-gauge copper wire. They are provided with solid molded three-outlet plugs, which allow additional users without having to run additional cords. They resist deterioration from moisture and abrasion. They are UL listed and meet OSHA specifications.

Part Number	Length	Part Number	Length
11-521	50 ft.	11-522	100 ft.

Other sizes and configurations available. Please call for more details.

Bulbs

Part Number	Mfr.	Description	Standard Packaging*
100ARS	GE	100-watt rough service bulbs	60
75ASL	GE	75-watt safety coated bulbs	24

Lights

Part Number	Mfr.	Description	Standard Packaging*
282	PS	Porcelain fixture with pull chain	1

Drop lights – various available, call for details

Guards & Cages

Part Number	Mfr.	Description	Standard Packaging*
2100A	McGill	Metal cage	1
2250	McGill	Plastic cage	1
2250S	McGill	Plastic cage with steel screw	1

Flashlights

A variety of sizes available, call for details.

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GFCI Devices & Pendant Stations

In-line GFCI

Great for use in wet areas and construction site applications, this In-Line Cord is available in either 120V/15A, 14/3 AWG or 240V/20A, 12/3 AWG. Extension cord length varies from 1', 6', 25', and 50'. If there's a trip or power outage, manual reset is required, thus preventing unmonitored equipment start up.

GFCI Trouble Light

Perfect for industrial uses where light and electrical safety are necessary. Protected by an all metal housing and includes one extra NEMA 5-15 convenience receptacle at the light end. A 25' extension cord is attached.

GFCI Cord, 6ft.

Everyone who uses an electric tool needs to ensure his own electrical protection! This 6 foot outdoor cord has a 15 amp. GFCI built into the male plug, with a test/reset button included. The other end has a molded-on POWERLITE power indicator plug that illuminates to show that the power is on. Meets or exceeds UL, OSHA or NEMA specifications.

GFCI Protected Quad Box

This 20 amp quad box is built to protect both pairs of receptacles. Its special features include T-slotted receptacles to allow both 15 and 20 ampere rated tools, with either NEMA 5-15 or NEMA 5-20 plugs. The second feature includes a "fast breaker" which is built into the heavy resistant box. This is great for fast reset should a power overload occur. Available in both 25' and 50' lengths.

Pendant Station, 10ft. Cable

This water resistant pendant station comes with an up, down, common, and emergency stop button, as well as a key switch. The pendant comes prewired with a 10-ft. length of 18-gauge 8 conductor wire. Additional lengths are available upon request. Cut-to-length cable available in 18/6, 18/7 and 18/10. Part Number 12-131



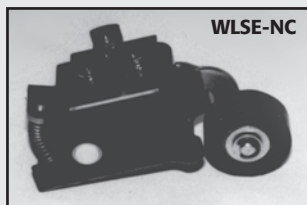
Tri-Tap GFCI Cords & GFCI Receptacle Adapters

Part Number	Description
TOW30334304	25ft. Tri-tap GFCI Cord
TOW30334305	50ft. Tri-tap GFCI Cord
TOW30339005	GFCI Receptacle Adapter
TOW30338018	2ft. GFCI Cord
TOW30338022	6ft. GFCI Cord

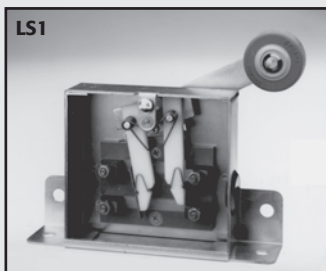


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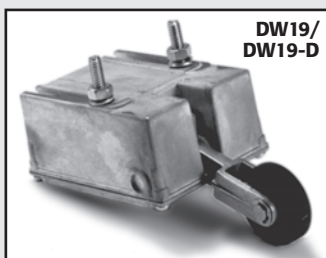
WLSE-NC



LS1

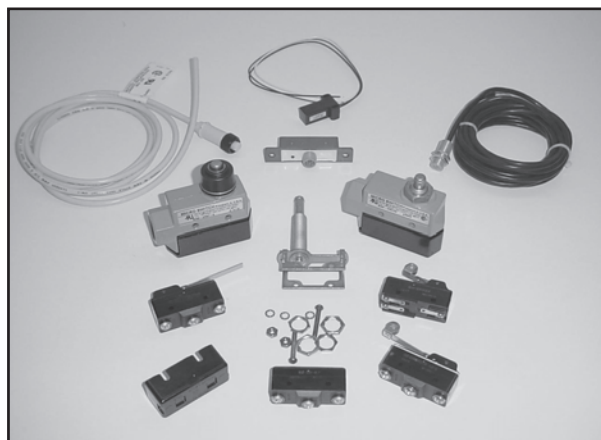


LS1-L

DW19/
DW19-D

Microswitch Switches & Sensors

Part Number	Description
BA2RV22	Short Roller Lever Snap Switch
BZ2RA	Pin Plunger Snap Switch
BZ2RW80A2	Bushing Mnt Plunger Snap Switch
BZ2RW8255A2S	Long Roller Lever Snap Switch
BZE62RN7S	Plunger Type Limit Switch w/Boot
BZE62RQ & BZE62RQ125	Roller Lever Limit Switches
BZE62RQ62	Low Force Rod Lever Limit Switch
5PA2	Snap Switch Terminal Cover
MC7711	Bushing Mount Plunger Assembly
103SR12A2 & 103SR12A7	Cylindrical Hall Effect Sensors
121XK212	Ferrous Metals Sensitive Prox



Limit Switches & Sensors

WLSE-NC

- Westinghouse Type E. Direct replacement for manufacturers switch. One normally closed contact.

LS1, LS1-L

- Direct replacement for C.J. Anderson, Maxton, and Virginia controls limit switches.
- Rubber roller for dependable operation
- Contacts self-wiping, maintenance-free, copper to carbon. See-through cover.
- One set normally open, one set normally closed.

EECO LS1B Limit Switches

DW19

- Specifically for use in the elevator hatchway as zoning, normal, and final limits
- One set normally open, one set normally closed.

DW19-D

- Double contact switch

Omron Limit Switches

Heavy-duty positive opening contacts. Contacts side rotary mechanical life 30 million operations.

CD4B-3111N

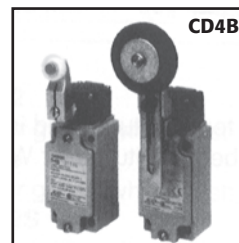
- Single Pole, 1N.O., 1N.C.
- Nylon roller lever, (.69" Dia.).

CD4B-3113N

- Single Pole, 1N.O., 1N.C.
- Adjustable roller lever, rubber, (1.97" Dia.).

CD4B-3A13N

- Double Pole, 2 N.C.
- Adjustable roller lever, rubber, (1.97" Dia.).



CD4B

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Pit Switches, Outlets, Lights & Convenience Boxes

Pit Switches

All Models are designed to meet ANSI A17.1 Rules 106.1f and 210.2e/2g Elevator Safety Code Requirements. Red run/stop control switch conforms to Rule 210.2e(4).

PS2

- Steel guard prevents damage or accidental switching
- Switch rated 20 amps at 250 VAC
- Lockable

PS3

- Run/stop in 1/2" permanent raised letters
- Cast aluminum cover
- CSA approved (CSA B44, B44.1/ASME, A17.1, A17.5)

PS2-DC

- Heavy Duty rocker switch
- Switch rated 1.5 amps at 120 VDC

PS4

- Push To Stop/Pull To Run
- One normally closed contact
- Maintained in both positions

Pit Switches/Outlets

PS2-DO

- With duplex outlet
- Padlockable

PS2-GFI

- With Ground Fault Circuit Interrupter
- Padlockable

Pit Work Lights

PWL

- Pit work light for pit or under car
- Light socket
- Light switch
- 4" x 4" x 2 1/2" box
- 120V outlet

PWLG

- With Ground Fault Circuit Interrupter
- 4 3/4" x 4 3/4" x 2 1/2" box

Auxiliary Convenience Boxes

ACB

Under cab work light, designed with two 3-prong electric cord outlets, light switch, and ceramic incandescent light bulb socket. Pre-drilled mounting brackets ensure easy installation.

ACBG

Ground Fault Circuit Interrupter provided in place of 3-prong outlets. (Shown with optional metal lamp guard and rough service lamp)



PS2



PS3



PS2-DC



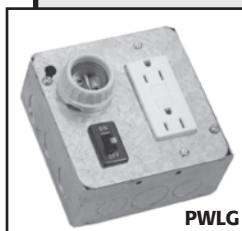
PS4



PS2-DO



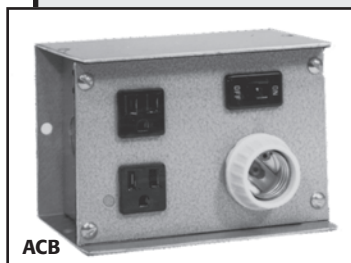
PS2-GFI



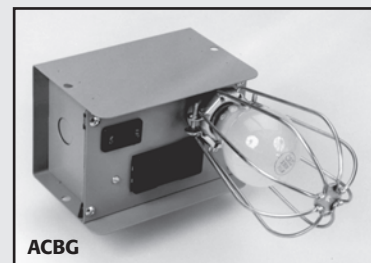
PWLG



PWL



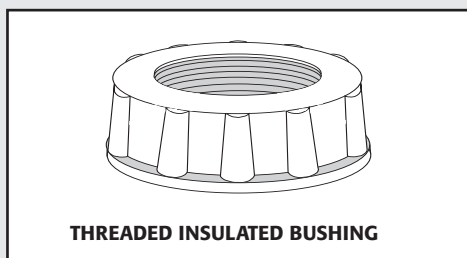
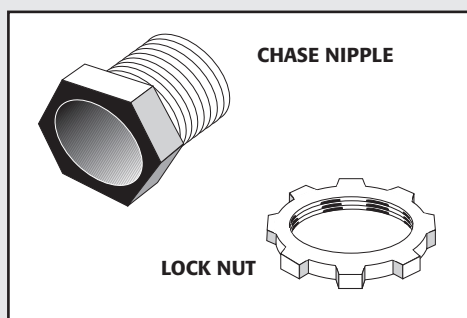
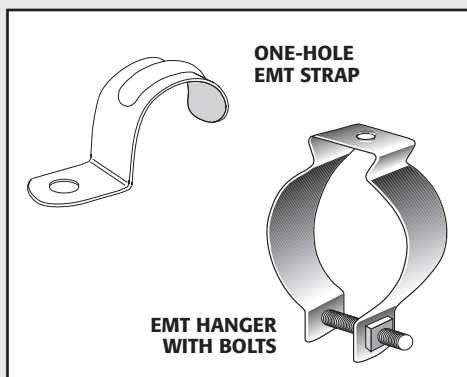
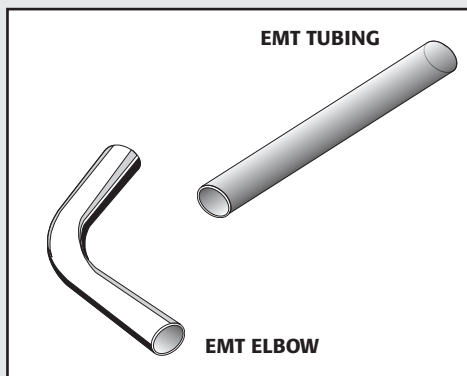
ACB



ACBG

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EMT

Tubing, Fittings & Accessories

EMT Tubing

Part Number	Diameter inches	Standard Packaging*
Per description	1/2	10
"	3/4	10
"	1	10
"	1 1/4	10
"	1 1/2	10
"	2	10
"	2 1/2	10

90° EMT Elbows (UL listed, thin wall, UL listed)

Part Number	Diameter inches	Standard Packaging*
Per description	1/2	25
"	3/4	25
"	1 1/4	20
"	1 1/2	10
"	2	10
"	2 1/2	1

One-hole EMT Straps

Part Number	Diameter inches	Standard Packaging*
MED30	1/2	100
MED45	3/4	100
MED55	1	50
MED65	1 1/4	50
MED75	1 1/2	25
MED85	2	20

EMT Hangers with bolts (UL listed)

Part Number	Diameter inches	Standard Packaging*
0B	1/2	100
1B	3/4	100
2B	1	100
2 1/2 B	1 1/4	100
3B	1 1/2	100
5B	2	50

Larger sizes available if needed.

Die-cast Chase Nipples (UL listed, CSA certified)

Part Number	Diameter inches	Standard Packaging*
1102DC	1/2	100
1103DC	3/4	100
1104DC	1	50
1105DC	1 1/4	25
1106DC	1 1/2	25
1107DC	2	15
1108DC	2 1/2	5
1109DC	3	5

Steel Lock Nuts (UL listed, CSA certified)

Part Number	Diameter inches	Standard Packaging*
101S	1/2	100
102S	3/4	100
103S	1	100
104S	1 1/4	50
105S	1 1/2	50
106S	2	25
107S	2 1/2	10
108S	3	10

Larger sizes available if needed.

Threaded Plastic Insulated Bushings (UL listed, CSA certified)

Part Number	Diameter inches	Standard Packaging*
321	1/2	100
322	3/4	100
323	1	50
324	1 1/4	25
325	1 1/2	25
326	2	10
327	2 1/2	10
328	3	10

Larger sizes available if needed.

*All items may be purchased individually.

Questions? Answers at...

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EMT Connectors & Couplings

EMT Compression Connectors: Die-cast & Steel

Part Number	Diameter inches	Standard Packaging*	Part Number	Diameter inches	Standard Packaging*
250-DC2	1/2	50	250	1/2	50
251-DC2	3/4	25	251	3/4	25
252-DC2	1	15	252	1	25
253-DC2	1 1/4	10	253	1 1/4	10
254-DC2	1 1/2	10	254	1 1/2	10
255-DC2	2	10	255	2	10
256-DC2	2 1/2	12	256	2 1/2	2
257-DC2	3	12	257	3	2

EMT Set Screw Connectors: Die-cast & Steel

Part Number	Diameter inches	Standard Packaging*	Part Number	Diameter inches	Standard Packaging*
230-DC2	1/2	100	230	1/2	50
231-DC2	3/4	50	231	3/4	25
232-DC2	1	10	232	1	20
233-DC2	1 1/4	10	233	1 1/4	10
234-DC2	1 1/2	10	234	1 1/2	10
235-DC2	2	5	235	2	5
236-DC2	2 1/2	12	236	2 1/2	2
237-DC2	3	12	237	3	2

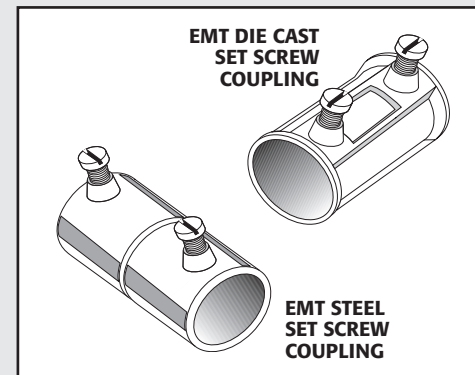
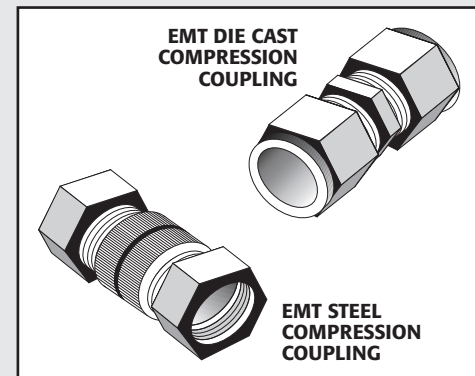
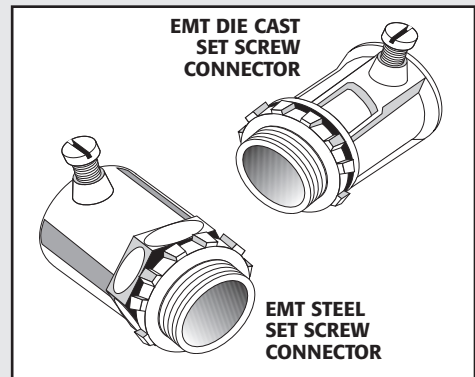
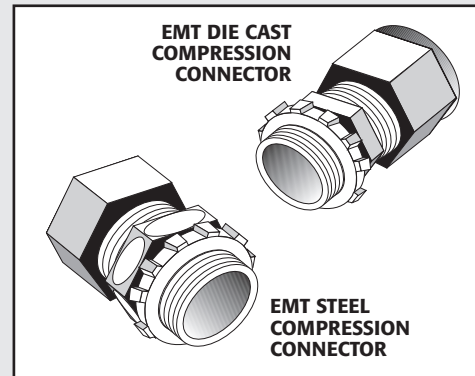
EMT Compression Couplings: Die-cast & Steel

Part Number	Diameter inches	Standard Packaging*	Part Number	Diameter inches	Standard Packaging*
260-DC	1/2	50	260	1/2	50
261-DC	3/4	25	261	3/4	25
262-DC	1	10	262	1	25
263-DC	1 1/4	10	263	1 1/4	10
264-DC	1 1/2	10	264	1 1/2	10
265-DC	2	5	265	2	5
266-DC	2 1/2	12	266	2 1/2	2
267-DC	3	12	267	3	2

EMT Set Screw Connectors: Die-cast & Steel

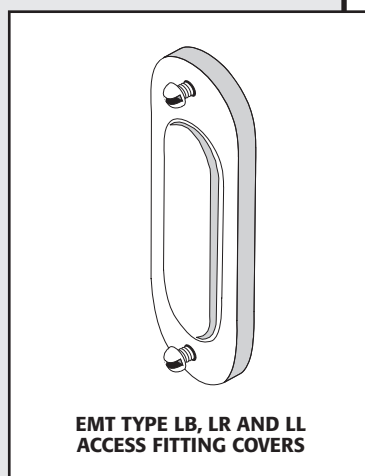
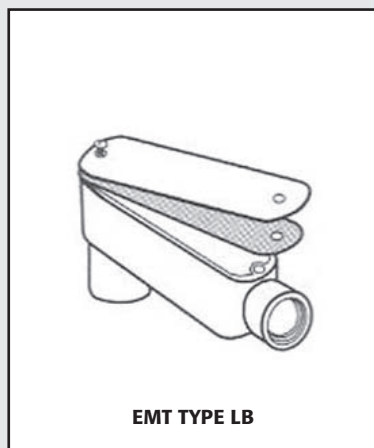
Part Number	Diameter inches	Standard Packaging*	Part Number	Diameter inches	Standard Packaging*
240-DC	1/2	50	240	1/2	50
241-DC	3/4	25	241	3/4	25
242-DC	1	25	242	1	20
243-DC	1 1/4	10	243	1 1/4	150
244-DC	1 1/2	10	244	1 1/2	10
245-DC	2	10	245	2	5
246-DC	2 1/2	12	246	2 1/2	2
247-DC	3	12	247	3	2

*All items may be purchased individually.



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EMT Access Fittings

Type LB Threaded (with cover and gasket)

Part Number	Size inches	Standard Packaging*
LB50CG	1/2	10
LB75CG	3/4	10
LB100CG	1	5
LB125CG	1 1/4	2
LB150CG	1 1/2	2
LB200CG	2	1

Type LR Threaded (with cover and gasket)

Part Number	Size inches	Standard Packaging*
LR50CG	1/2	10
LR75CG	3/4	10
LR100CG	1	5
LR125CG	1 1/4	2
LR150CG	1 1/2	2
LR200CG	2	1

Type LL Threaded (with cover and gasket)

Part Number	Size inches	Standard Packaging*
LL50CG	1/2	10
LL75CG	3/4	10
LL100CG	1	5
LL125CG	1 1/4	2
LL150CG	1 1/2	2
LL200CG	2	1

Covers for Type LB, LR and LL Access Fittings

Part Number	Fits Size inches	Standard Packaging*
K50A	1/2	50
K75A	3/4	50
K100A	1	50
K125A/150A	1 1/4 to 1 1/2	25
K200A	2	25

*All items may be purchased individually.

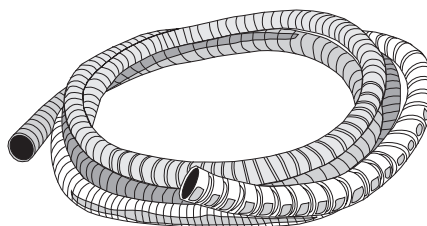
Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Flexible Metal Fittings & EMT-to-Flex Couplings

Flexible Steel/Aluminum Conduit (UL listed)

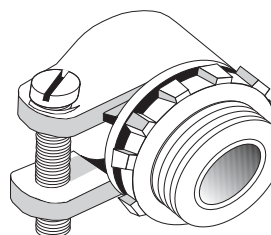
Part Number	Diameters inches	Standard Packaging*
Per desc.	3/8	100' reel
"	1/2	100' reel
"	3/4	100' reel
"	1	50' coil
"	1 1/4	50' coil
"	1 1/2	25' coil
"	2	25' coil



FLEXIBLE STEEL & ALUMINUM CONDUIT

Straight Squeeze-Malleable Iron Flex Box Connectors (UL listed)

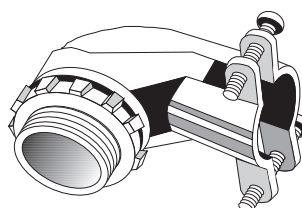
Part Number	Diameters inches	Standard Packaging*
7481V	1/2	25
7482V	3/4	25
7483	1	10
7484	1 1/4	10
7485	1 1/2	5
7486	2	4



STEEL STRAIGHT BOX CONNECTOR

90° Squeeze-Zinc Die Cast Flex Box Connectors (UL listed and CSA certified)

Part Number	Diameters inches	Standard Packaging*
804DC2	1/2	25
806DC2	3/4	10
807DC2	1	25
808DC2	1 1/4	25
809DC2	1 1/2	5
810DC2	2	5



STEEL 90° BOX CONNECTOR



EMT-TO-FLEX DIE-CAST
SET SCREW COUPLING

Compression/Screw-on

Part Number	Diameters inches	Standard Packaging*
581DC	1/2 EMT to 1/2 FLEX	50
582DC	3/4 EMT to 3/4 FLEX	25
583DC	1 EMT to 1 FLEX	20

*All items may be purchased individually.

Liquid Tight Connectors

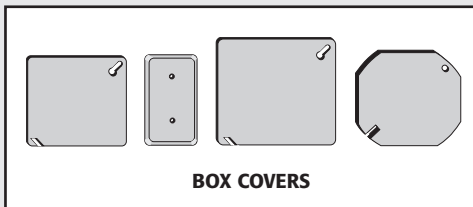
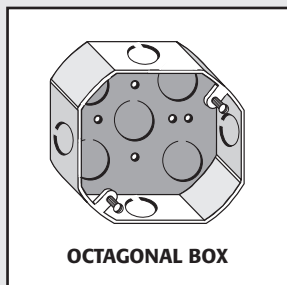
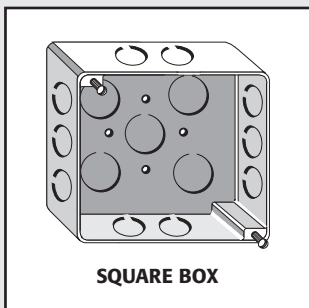
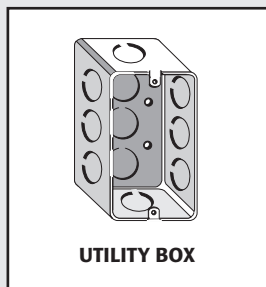
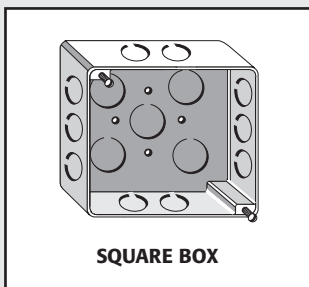
Dimensions	Straight	45°	90°
1/2"	ST50	ST4550	ST9050
3/4"	ST75	ST4575	ST9075
1"	ST100	ST45100	ST90100
1 1/4"	ST125	ST45125	ST90125
1 1/2"	ST150	ST45150	ST90150
2"	ST200	ST45200	ST90200
2 1/2"	ST250	ST45250	ST90250
3"	ST300	ST45300	ST90300



LIQUID TIGHT CONNECTORS IN STRAIGHT, 45° AND 90°

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Boxes & Covers

4" x 4" Square Boxes:

1½" deep (type 52151)

Part Number	Knockouts	Standard
1½" deep	inches	Packaging*
4SB50/75	½ & ¾	50

2⅛" deep (type 52171) [UL listed]

Part Number	Knockouts	Standard
2⅛" deep	inches	Packaging*
4SDB50/75	½ & ¾	50

4" x 2⅛" Utility Boxes:

1⅞" deep (type 58361)

Part Number	Knockouts	Standard
1⅞" deep	inches	Packaging*
HB150	½	50

2⅛" deep (type 58371) [UL listed]

Part Number	Knockouts	Standard
2⅛" deep	inches	Packaging*
HDB150	½	50
HDB150MKO	¾	50

4⅞" Square Boxes: 2⅛" deep (type 72171) [UL listed]

Part Number	Knockouts	Standard
	inches	Packaging*
5SDB50/75	½ & ¾	24
5SDB75/100	¾ & 1	24

4" Octagonal Boxes:

1½" deep (type 54151)

Part Number	Knockouts	Standard
1½" deep	inches	Packaging*
4RB50	½	50

Box Covers/Flat Blank (UL listed and CSA certified)

Part Number	Knockouts	Standard
	inches	Packaging*
4BC	4 x 4	50
HBCB	4 x 2⅛	50
5BC	4⅞ x 4⅞	50
4RBC	4" round	50

Covers with various device applications also available.

*All items may be purchased individually.

Questions? Answers at...

Boxes & Covers

Screw-Cover Pull Boxes (with cover and knockouts) (UL listed)

Part Number	Size inches	Depth inches	Standard Packaging
444SC	4 x 4	4	1
664SC	6 x 6	4	1
6124SC	6 x 12	4	1
884SC	8 x 8	4	1
10104SC	10 x 10	4	1
12124SC	12 x 12	4	1
18184SC	18 x 18	4	1
2464SC	24 x 6	4	1
24244SC	24 x 24	4	1
886SC	8 x 8	6	1

Junction Boxes (with knockouts and terminals)

Part Number	Size inches	Depth & Capacity inches • wire count	Standard Packaging
JBX40	14 x 8½	3¼ • 40 wires	1
JBX80	24 x 8½	3¼ • 80 wires	1
JBX108	36 x 8½	3¼ • 108 wires	1

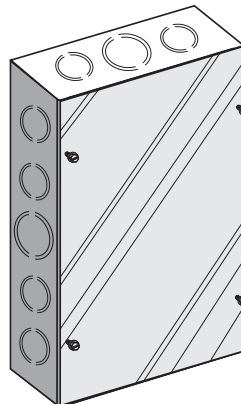
Junction Box Components

Part Number	Description	Standard Packaging*
0924	Terminal block	100
67	Zinc-plated track	3' lengths

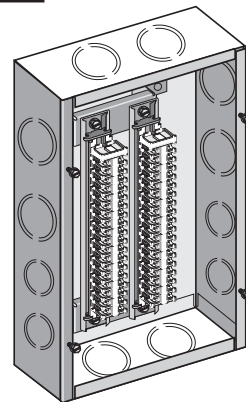
Metal Knockout Plugs

Part Number	Size inches	Standard Packaging*
S50	½	100
S75	¾	100
S100	1	50
S125	1¼	50
S150	1½	50
S200	2	25

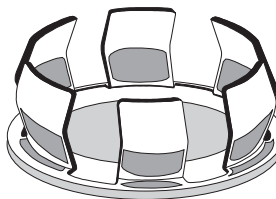
*All items may be purchased individually.



SCREW-COVER PULL BOX



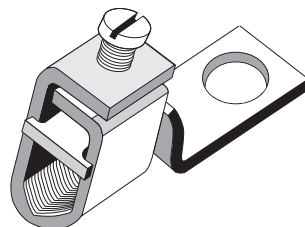
JUNCTION BOX WITH TERMINALS



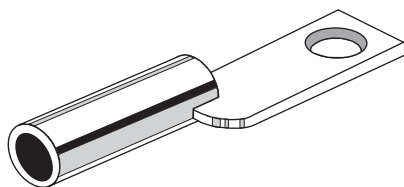
METAL KNOCKOUT PLUG

Questions? Answers at...

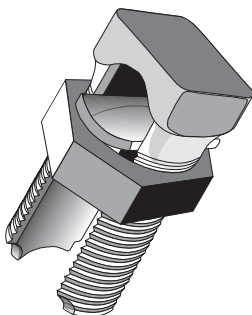
Western US: 866 CED-ELEV Eastern US: 866-253-2915
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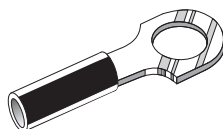
ILSCO MECHANICAL LUGS



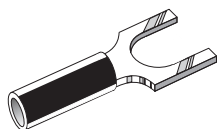
COMPRESSION LUG



SPLIT-BOLT CONNECTOR



RING



FORK

Miscellaneous Hardware

Mechanical Lugs

Part Number	Size	Standard Packaging*
DE704	#14-6awg	100
DE705	#8-2awg	100
DE706	#2-1/0	25
DE713	#4-3/0	25
DE707	#2-4/0	10

The above mechanical lugs and split bolt connectors referenced are for the most common cable sizes used. Many more sizes are used and are available from our stock. Please ask your sales representative for details.

Compression Lugs

Part Number	Wire Size	Hole Size	Standard Packaging*
GL2038	2/0awg	3/8"	10
GL114	1awg	1/4"	20
GL214	2awg	1/4"	25
GL438	4awg	3/8"	50
GL614	6awg	1/4"	50
GL638	6awg	3/8"	50
GL814	8awg	1/4"	50

Split-bolt Connectors

Part Number	Size	Standard Packaging*
N2	T&2-6 STR	100
N3	4 STR	100
N4	4-8 STR	100
N6	6-8 STR	100
N8	16-8 STR	100

Tabs, Forks & Rings

Part Number	Size	Type	Standard Packaging
MNG1810R/LX	22-18awg	10 ring	100
MNG1810FBX	22-18awg	10 fork	100
MNG1410RX	16-14awg	10 ring	100
MNG1410FBX	16-14awg	10 fork	100
MNG1410FLX	16-14awg	10 lock fork	100
MNG1010RX	12-10awg	10 ring	50
MNG1010FXB	12-10awg	10 fork	50

Many different sizes of rings and forks are stocked. To order, insert desired size into the above part numbers where the 10" appears after the dash. (i.e.: for a 16-14awg 8 ring, you would order part number RB14-8.)

*All items may be purchased individually.

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Miscellaneous Hardware

Insulated Butt Splices [UL listed, CSA Certified]

Part Number	Size	Standard Packaging
MN18BCX	22-18awg	100
MN14BCX	16-14awg	100
MN10BCX	12-10awg	50

ScotchLok® Components [UL listed, CSA Certified]

Part Number	Size	Standard Packaging
557 (red)	22-16awg	100
558 (red)	22-16awg	100
560 (blue)	18-14awg	100
562 (yellow)	12-10awg	100

Wire Nuts [UL listed, CSA Certified]

Part Number	Size	Color	Standard Packaging
30071	22-16awg	gray	100
30072	22-14awg	blue	100
30073	22-14awg	orange	100
30074	18-10awg	yellow	100
30076	18-10awg	red	100

Wing nuts also available.

Ty-Raps [UL listed]

Part Number	Length inches	Standard Packaging
CT4NT18C	3.62	100
CT6NT40C	5.50	100
CT8NT50C	7.31	100
CT11NT50C	11.08	100
CT15NT120C	13.38	50
CT36NT175L	30.00	50

For weatherproof add "X" to end of part number.

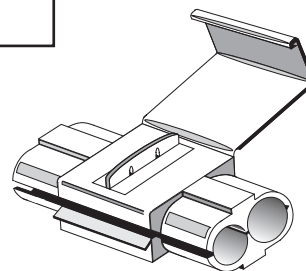
Wire Marker Cards & Dispensers

Part Number	Description
WMB1	Wire marker book # 0-9
WMB15	Wire marker book # 46-90
WMB2	Wire marker book A-Z
WMB3	Wire marker book 1-45

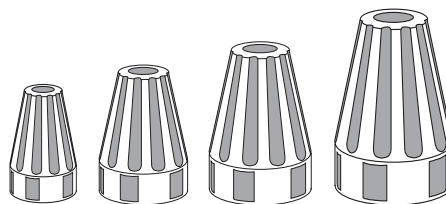
Number dispenser refills available.



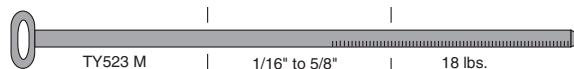
INSULATED BUTT SPLICE



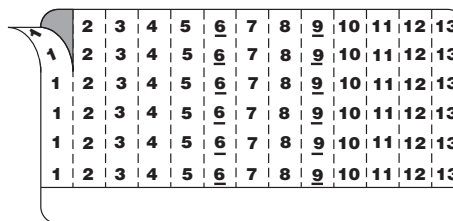
SCOTCHLOK PIGTAIL



WIRE NUTS



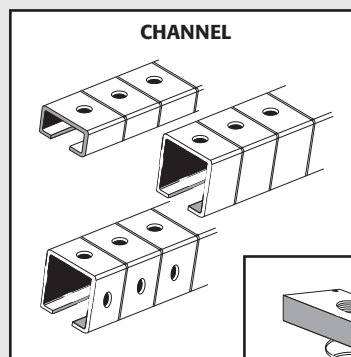
TY-RAP



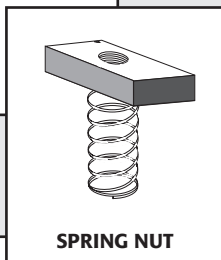
WIRE MARKER BOOKS

Questions? Answers at...

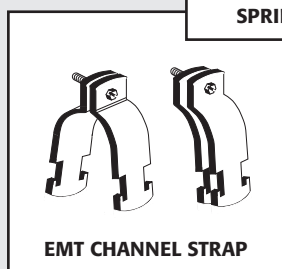
Western US: 866 CED-ELEV Eastern US: 866-253-2915
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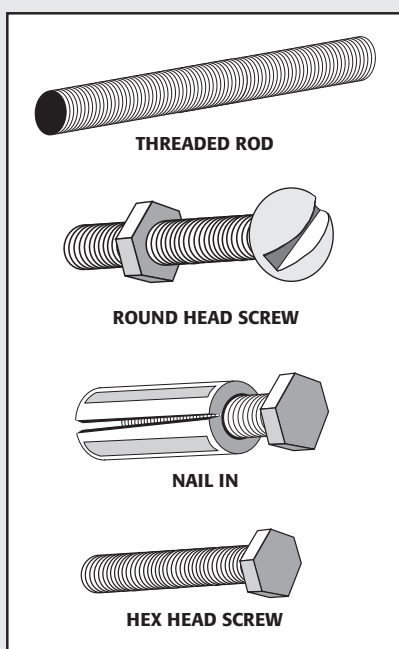
CHANNEL



SPRING NUT



EMT CHANNEL STRAP



THREADED ROD

ROUND HEAD SCREW

NAIL IN

HEX HEAD SCREW

Channel & Components Screws, Fasteners, Cush Clamps

Channel & Components (UL listed)

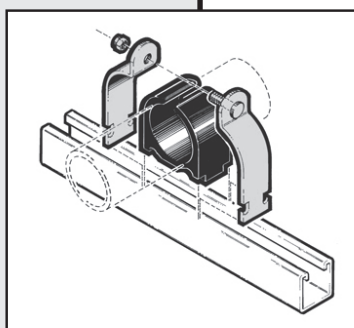
Part Number	Size	Type	Standard Packaging*
W500H	1 1/2" x 3/4" x 10'	B907 14-gauge channel/holes one side	600'
W200H	1 1/2" x 1 1/2" x 10'	B905 12-gauge channel/holes one side	600'
W24EG	1/4"	B910 spring nut for all channel	100
W26EG	3/8"	B910 spring nut for all channel	100
W28EG	1/2"	B910 spring nut for all channel	100
W6026AEG	1/2"	C106 EMT strap for 1 1/2" and 3/4" channel	100
W6028AEG	3/4"	C106 EMT strap for 1 1/2" and 3/4" channel	100
W6030AEG	1"	C106 EMT strap for 1 1/2" and 3/4" channel	100
W6032AEG	1 1/4"	C106 EMT strap for 1 1/2" and 3/4" channel	100
W6034AEG	1 1/2"	C106 EMT strap for 1 1/2" and 3/4" channel	100
W6038AEG	2"	C106 EMT strap for 1 1/2" and 3/4" channel	50

Channel also available with holes, plain, green and galvanized.

Screws, Fasteners & Accessories

Part Number	Size	Type	Standard Packaging*
W7124EG	3/8" x 10'	Threaded rod	25
RC2-1/2	1/2"	Threaded couplings	100
RC2-3/8	3/8"	Threaded couplings	100
RC2-5/8	5/8"	Threaded couplings	100
DA38	3/8"	Lead anchors	100
FW38	3/8"	Flat washers	100
LW38	3/8"	Lock washers	100
HN38	3/8"	Hex nuts	100
RMC1434	1/4" x 3/4"	Round-head nuts and screws	100
RMC141	1/4" x 1"	Round-head nuts and screws	100
RMC14114	1/4" x 1 1/4"	Round-head nuts and screws	100
RMC14112	1/4" x 1 1/2"	Round-head nuts and screws	100
RMC142	1/4" x 2"	Round-head nuts and screws	100
ZA150	1/4" x 1"	Nail-ins	100
DA14	1/4"	Lead anchors	100
FW14	1/4"	Flat washers	100
LW14	1/4"	Lock washers	100
HN14	1/4"	Hex nuts	100
TB44	1/4" x 3"	Toggle bolts	100
MB141	1/4" x 1"	Hex-head bolt	100

*All items may be purchased individually. Other sizes available for all hardware.



Cush Clamps

Part Number	Nominal Pipe Size	O.D. Size
200050	1/2"	.840
200075	3/4"	1.050
200100	1"	1.315
200125	1 1/4"	1.660
200150	1 1/2"	1.900
200200	2"	2.375
200250	2 1/2"	2.875
200300	3"	3.500
200350	3 1/2"	4.000
200400	4"	4.500

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Floor Protection

Clean Mat

Clean Mat provides a unique, easy to use, cost-effective solution for capturing dirt before it is tracked in. Comprised of 30 layers of adhesive-coated film that effectively removes dirt from shoes. When the exposed layer is completely used, simply peel it off to expose a clean layer.

Part Number	Description
CM2436W4	24" x 36"—4 pads

BuilderBoard™

- Tough 20-mil. heavy duty construction board for temporary protection
- Anti-slip surface
- Re-usable and fire-retardant
- Easy tout, fit and remove
- Protects steel, concrete, wood, marble, carpet, linoleum, tile and bulkheads

Part Number	Description
BLD38100	38" x 100'

Carpet Mask

- Roll it on, stays in place
- Easy to use and to move
- Clear, tough, 2-mil. non-skid surface
- Temporary protection, up to 30 days
- Great for hallways and stairs
- Use on all types of synthetic carpets
- Tear and puncture resistant

Part Number	Description	Part Number	Description
CS24200L	24" x 200'	CS36250	36"x250'
CS24500	24" x 500'	CS365000	36"x500'
CS24000	24" x 1000'	CS361000	36"x1000'
CS30200	30" x 200'	CS48500	48"x500'
		CS481000	48"x1000'



CLEAN STEP



60 LAYERS OF PROTECTION!



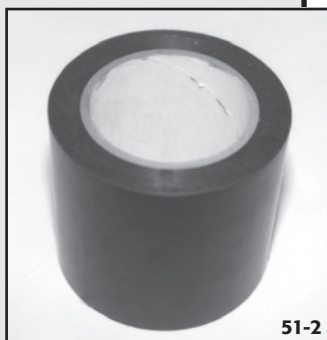
DURA MASK



CARPET MASK

Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Floor Protection & Tapes

Floor Shield

- Specially formulated self-adhesive poly runner
- Durable protection
- Resistant to tearing and scuffing
- Ideal for countertops
- Protects hard surfaces such as linoleum, ceramic tile, cultured marble, etc.
- Temporary protection, up to 30 days

Part Number	Description	Part Number	Description
FS2450C	24" x 50'	FS36250	36"x250'
FS24200L	24" x 200'	FS36500	36"x500'
FS24500	24" x 500'		

Applicators

- Fast and easy for large areas of carpet
- Durable, heavy duty construction
- Saves time and labor
- Fits 200' and 1000' rolls in both widths

Part Number/Applicator Size
A21/21"; A2436/24", 30", 36"; A3660

Tapes: Friction, Rubber & Electrical

[UL listed, CSA Certified]

Part			Standard
Number	Size	Type	Packaging
1755	¾" x 60'	Friction	1
2150	¾" x 22'	Rubber	1
1700	¾" x 60'	Electrical	10
33 (black)	¾" x 66'	Electrical	10
35*	¾" x 66'	Electrical	10

*Specify color

All-Weather 20-Mil Tape

Part Number	Description
51-2	20-mil Black Pressure Sensitive (2"x100')
51-4	20-mil Black Pressure Sensitive (4"x100')

Questions? Answers at...

Western US: 866 CED-ELEV **Eastern US: 866-253-2915**
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

FANS, COOLERS & HEATERS



Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

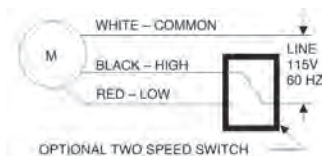
or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

6

In this Section

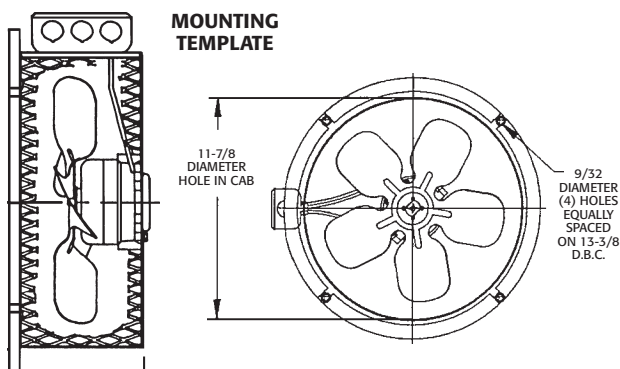
"SEF-E" 2-Speed Propeller Fan .	6.2
"SOE" Dust and Moisture-Proof Blower Wheel Fan	6.2
"AA" 3-Speed Blower Wheel Fan .	6.2
One and Two-Speed Fans	6.3
Two-Speed Exhaust Fans	6.3
Fan Replacement Parts.	6.3
Stand-by Emergency Ventilation for Glass Elevators	6.3
Emergency Power Supply	6.3
Grills	6.4
Lighted Grills	6.4
Heater for Elevator Cab	6.4
Tank Heaters	6.4
SEIM Tank Cooler	6.5
Oil-to-Air Heat Exchanger with pump-motor and electric fan .	6.5


**WIRING
DIAGRAM**


Exhaust Fans 2 and 3-Speed

Model "SEF-E" 2-Speed Propeller Fan

Part								
Number	HP	RPM	FLA	Volts	Phase	Cycle	Cap.	Speeds
06-02016	16.4 Watt	1450	.77	115	Single	60	None	2
06-02020	14.3 Watt	1250	.41	220/230	Single	50	None	2

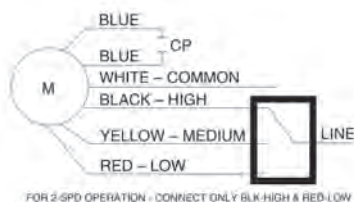


Component Specifications

Style
Exhaust
Pressure configuration
by special order only

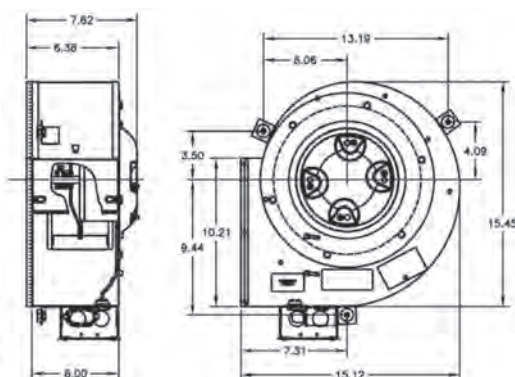
Maximum CFM
350

Features
Smallest and
least expensive


**WIRING
DIAGRAM**


Model "SOE" Dust and Moisture-Proof Blower Wheel Fan

Part								
Number	HP	RPM	FLA	Volts	Phase	Cycle	Cap.	Speeds
06-01068	1/33	1050	.84	115	Single	60	None	3
06-01070	1/33	625	.61	220/230	Single	50	None	3



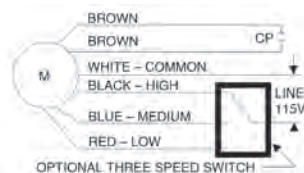
Component Specifications

Style
Exhaust configuration
Dust, moisture and
explosion-proof
models available

Maximum CFM
480

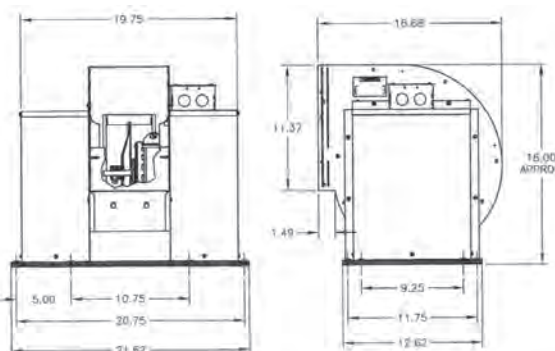
Features
Most commonly used

Repair Kit
#06-01066


**WIRING
DIAGRAM**


Model "AA" 3-Speed Blower Wheel Fan

Part								
Number	HP	RPM	FLA	Volts	Phase	Cycle	Cap.	Speeds
06-01058	1/12	825	1.9	115	Single	60	5 MFD, 370V	3
06-01059	1/12	675	1.4	220/230	Single	50	5 MFD	3



Component Specifications

Style
Exhaust configuration
Dust, moisture and
explosion-proof
models available

Maximum CFM
510

Features
Double air inlet for
quietest operation

Repair Kit
#96-13502

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Blower and Exhaust Fans

One & Two-Speed Fans

Engineered for maximum air distribution, our fans are totally enclosed, prelubricated, and easy to install. The 12" x 12" x 4 1/4" 16-gauge steel cage houses a low rpm motor with five blade fan that is both quiet and dependable.

Part Number	CFM	Volts	Height	Speeds
SSF3C	380	115V AC	4 1/4"	1
SSFE	325	220VAC, 50-60 HZ	4 1/4"	1
SSF3R	380	115V AC	4 1/2"	1
TSF1	345-300	115V AC	4 1/4"	2
TSFE	325-290	220VAC, 50-60 HZ	4 1/4"	2

Two-Speed Exhaust Fans

12" diameter, welded steel housing.

Part Number	Maximum CFM	Volts	Height	Speeds
TSFE1420	375	115V AC	4 1/2"	2
TSFE1424	375	115V AC	3 1/2"	2

Fan Replacement Parts

Part Number	Description
21FN001	Single-speed fan motor
21FN002	Two-speed fan motor
A01FN001	Two-speed suction blade
A01FN002	Single-speed suction blade
A01FN003	Single-speed push blade

Stand-by Emergency Ventilation for Glass Elevators

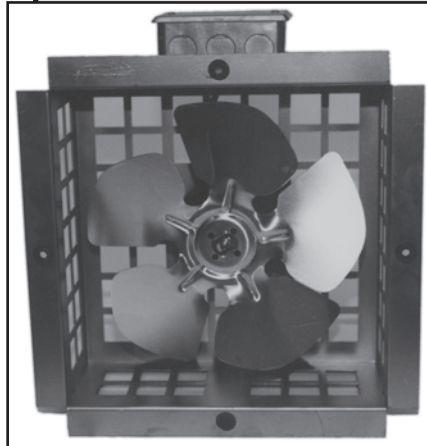
Ideal for use in glass elevators exposed to direct sunlight. Our fan with emergency power source is designed to exceed the minimum ANSI A17.1-1989 Section 204.2C requirement of one hour. Bulb type thermostat operates the fan when elevator temperature reaches 80° and shuts off when temperature decreases to 75°, allowing greater time frame for emergency operation.

Part Number	Maximum CFM	Volts
SSF4DC	300	12V DC (fan and motor)

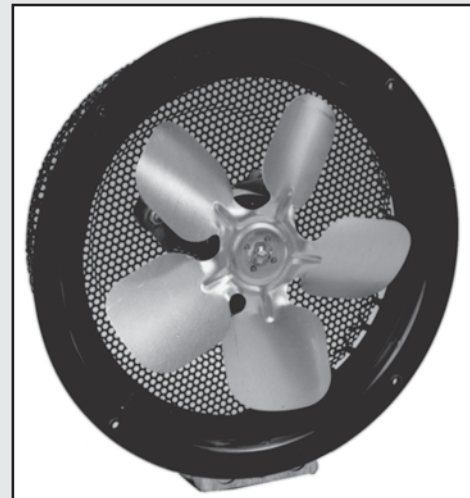
Emergency Power Supply

- Sealed lead acid batteries for uniform discharge performance
- 110V solid state charging system constantly maintains battery charge
- In the event of a power failure, the power supply will restore the charge at the rate of 8 hours for every 4 hours of discharge
- Can be mounted horizontally or vertically
- 4-hour power supply
- Test switch
- Indicator lights (charging)

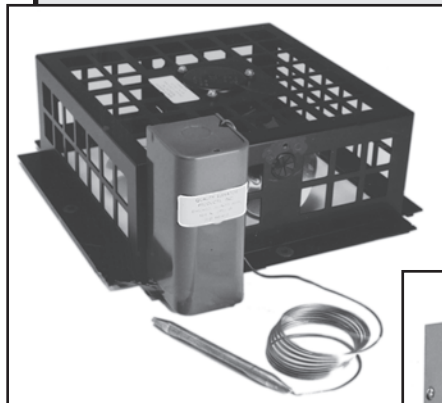
Part Number **PP/SSF4DC** (Replacement supply)



SSF3, TSF1

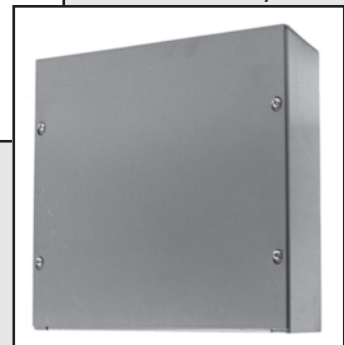


TSFE1420



SSF4DC

PP/SSF4DC



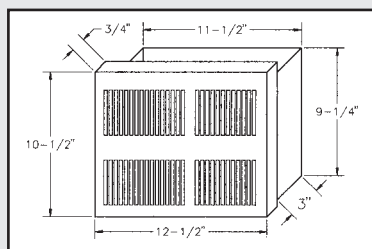
Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

ADGE145SFL



ADG-12S



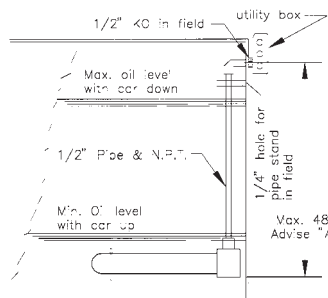
TH120



TH120F



THO

TANK HEATER WORKSHEET


Grills, Heater & Tank Heaters

Grills

Part Number	Diameter (inches)	Finish
ADG-10	10	white
ADG-12	12	white
ADG-16	16	white
ADG-12S	12	silver
ADG-12B	12	bronze

Lighted Grills

Combination glare-free fluorescent light and air distribution grille. One 40 watt circle line lamp. Durable plexiglass light diffuser. Mounts independent of fan.

Part Number	Finish
ADGE145SFL	Stainless
ADGE145BFL	Bronze
ADG-FL-CVR	(Replacement Fluorescent Cover)
ADGE145SI*	Stainless
ADGE145BI*	Bronze

* Incandescent lighting—four 40 watt lamps

Heater for Elevator Cab

Ceiling mounted fan forced heater is ideal for parking garages and other area installations

Part Number **QCH-1151**

- Navajo white steel faceplate
- Lightweight, 8 lbs.
- 1500 watts (5120 BTU/hour)
- 120 VAC power, 12.4 amps
- Remote thermostat
- Thermal cutout to prevent overheating

Tank Heaters

The integral thermostat is set for 100° F, has 275W, 120V, and 60Hz, in stock. Permanently mounted so that turbulence will not move heater in tank.

Custom made for your specific applications

(Note: "A" Dimension must not exceed 48" maximum. See worksheet for installation specs and size requirements.)

Part Number	Description
TH120	
TH120F	(Same as TH120 with standard 40" flex cord)
THO	(20 amp red on/off switch with cover)

Tank Heater Worksheet

Recommended Installation:

1. If possible, locate heater at bottom of tank, or with minimum of 4" of oil cover.
2. Make all knock-outs and holes above high oil mark in tank.
3. Mount standard switch and cover in utility box if required for summer-winter operation (not furnished, optional).

Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Tank Coolers

Oil Cooler

The Oil Cooler can be mounted to the power unit or located in a remote location. When the oil temperature in the reservoir reaches a preset limit, it is circulated through the radiator. This process reduces the oil temperature by nearly 40°F depending on site conditions. The oil is also filtered as it runs through the system, which results in enhanced performance and extended component life. The filter head has a sight gauge to indicate when the filter needs to be changed.

Technical data:

- 3/4 HP, 115 VAC, 1 phase, 7.2 FLA pump motor or 208-230 VAC, 1 phase, 3.6 FLA pump motor
- 1/4 HP, 115VAC, 1 phase, 3.6 FLA 1900 CFM fan motor or 208-230 VAC, 1 phase, 1.4 FLA 1900 CFM fan motor
- Heat removal: 17,500 BTU/hr @ 40°F temp delta
- 8 GPM, 75 PSI cast iron pump
- Weighs approximately 140 lbs
- Adjustable thermostat control
- 80db at 3 ft.
- Electrical requirement, 115 VAC, 1 phase, 20amp separate circuit
- 10 micron filter in hydraulic oil line
- Filter head with sight gauge to indicate when the filter needs to be changed
- Heavy gauge frame construction
- Includes all fittings and hardware needed for adjacent-mount installation
- Includes instructions for installation

Part Number **10248**

Replacement Filter Part Number **1953**

Oil-to-Air Heat Exchanger with pump-motor and electric fan

- Stabilizes the oil temperature
- Operates in the bypass flow independent of the power unit
- Controlled by adjustable thermostat in power unit
- Located next to power unit
- Adjustable thermostat and wall mounting brackets included

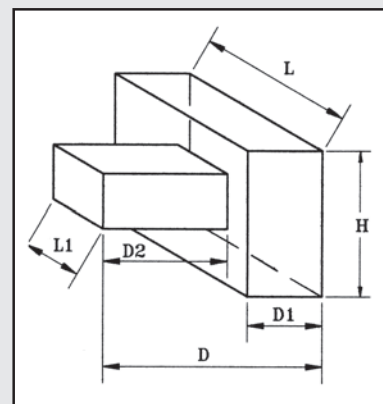
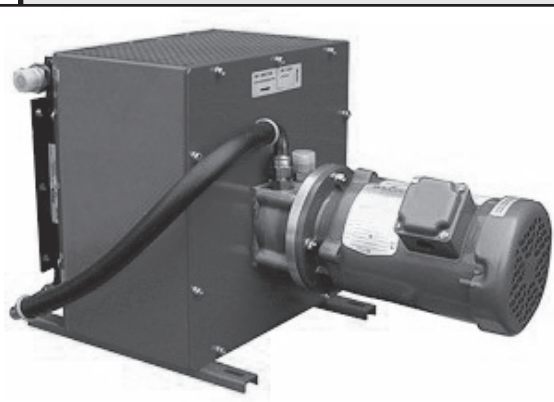
Part Number	Voltage	Motor	Cooling Capacity	Weight
BUCR2S	220/460V	1/2 HP	12,100 BTU/hr	145 lbs
BUCR3S	220/460V	2 HP	29,000 BTU/hr	165 lbs
BUCR4S	220/460V	2 HP	47,800 BTU/hr	180 lbs

Dimensions

Part Number	D1	D2	D	H	L1	L
BUCR2S	7"	13"	20"	15"	8"	15"
BUCR3S	9"	16"	25"	18"	8"	17"
BUCR4S	12"	17"	29"	21"	11"	19"

Available Options

- Controller (starter, circuit breaker, fuses and terminal blocks)
- Flexible hoses
- Replacement motors: **BUCR2SM** & **BUCR4SM**



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Notes



Questions? Answers at...
Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970
Full line catalog available upon request

FIXTURES CONTROLLERS & EDGES



ELEVATOR SUPPLY DIVISION
CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC.

Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

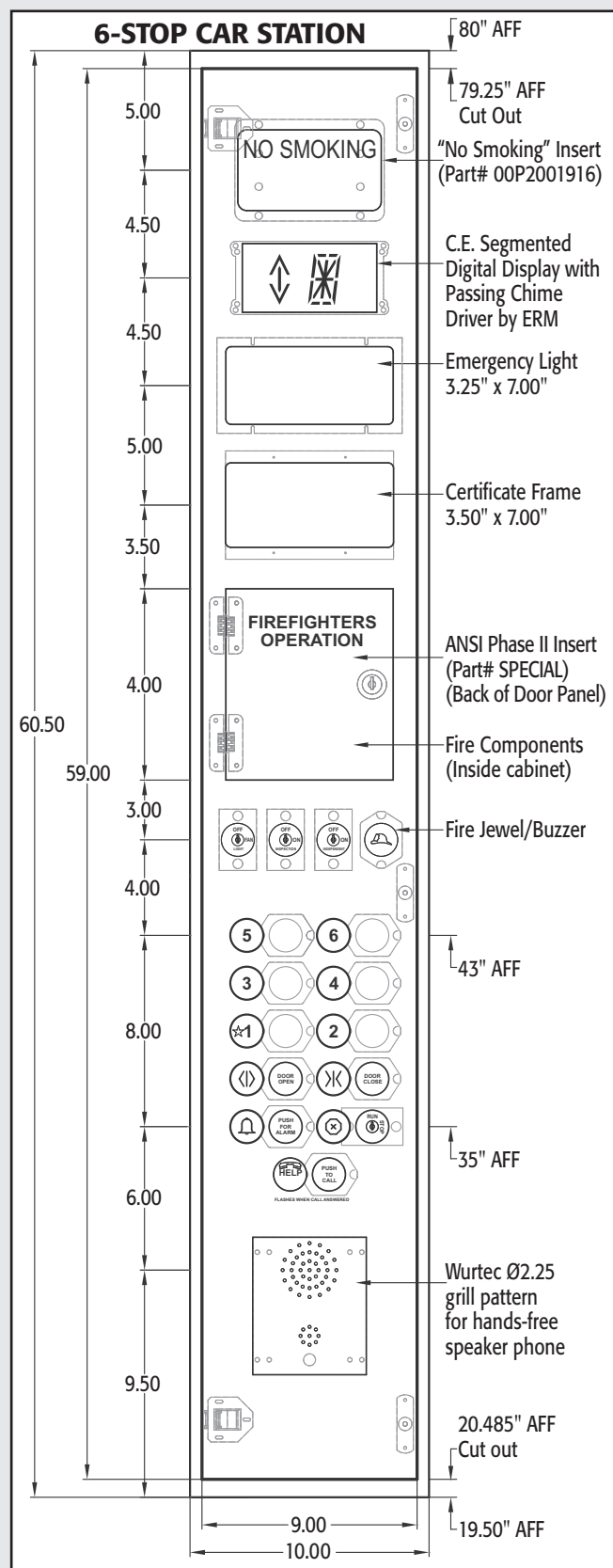
or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

7

In this Section

Car Station Units	7.2, 7.5
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Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Car Station Units

Car Station Notes:

Faceplate: #11-gauge stainless steel, #4 brush finish

Dimensions: Faceplate: 10.00" x 60.50"

Box: 9.00" x 59.00" x 3.50" DP

Lamp Voltage: Multi-volt 7½–120V AC/DC

Speaker Grill: Wurtec

Hinge Side: Customer to specify left/right

Fasteners: Panel Locks

Push Buttons:

CA-92 ERM standard round button:

Ø1.38" black halo with illuminating California raised round, plastic cap

Braille: Ø1.38" raised white characters on black background flush mounted into panel.

Stop Switches (ERM-J202):

ERM key switch/red with white characters along with ERM round braille.

Key Switches (ERM Ø1.393):

Inspection (ERM-J204); Independent (ERM-J201); Fan/Light (ERM-J201)

Engraved Graphics:

"No Smoking" – .75" black

"Capacity ___ lbs." – .25" black

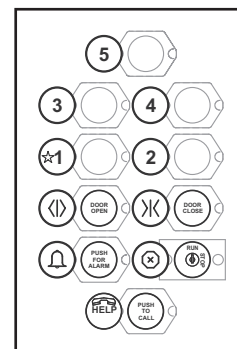
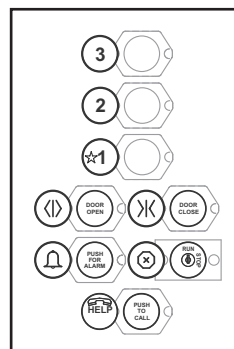
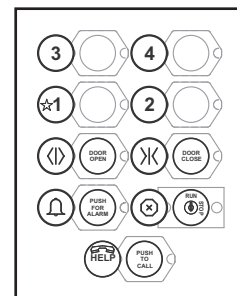
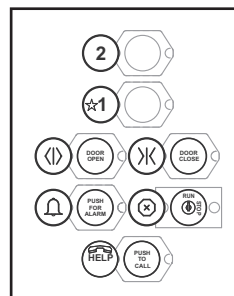
"Firefighters Operation" – .50" red

"Flashes when call..." – .125" black

In-Box Components:

Fire buzzer – 120VAC

Nudging buzzer – 120VAC



Part Number	Description	Part Number	Description
OOP3004502	2-Stop	OOP3004505	5-Stop
OOP3004503	3-Stop	OOP3004506	6-Stop
OOP3004504	4-Stop		

Hall Stations & Car Lanterns

All models come with the following unless otherwise noted:

Faceplate: #11-gauge stainless steel, #4 brush finish

Lamp Voltage: 120V LED

Fasteners: Tamperproof screws

Terminal Hall Station

Part Number **OOP3004520**

Dimensions: Faceplate: 5.00" x 21.00"

Box: 2.75" x 7.63" x 3.50" DP

Push Buttons: CA-92 standard round

Terminal with Fire Service

Part Number **OOP3004535**

Dimensions: Faceplate: 5.00" x 21.00"

Box: 2.75" x 7.63" x 3.50" DP

Push Buttons: CA-93

Key Switches: ERM Ø1.393,"

Fire Service reset/off/on (ERM-HW1002)

Terminal with Access

Part Number **OOP3004540**

Dimensions: Faceplate: 5.00" x 21.00"

Box: 2.75" x 7.63" x 3.50" DP

Push Buttons: CA-92 standard round

Key Switches: ERM Ø1.393,"

Access (ERM-J204)

Terminal with Access, Fire Service

Part Number **OOP3004555**

Dimensions: Faceplate: 5.00" x 21.00"

Box: 2.75" x 10.63" x 3.50" DP

Push Buttons: CA-93

Key Switches: ERM Ø1.393,"

Fire Service reset/off/on

(ERM-HW1002), Access (ERM-J204)

Intermediate Hall Station

Part Number **OOP3004060**

Dimensions: Faceplate: 5.00" x 21.00"

Box: 2.75" x 7.63" x 3.50" DP

Push Buttons: CA-92 standard round

Intermediate with Fire Service

Part Number **OOP3004075**

Dimensions: 5.00" x 21.00"

Box: 2.75" x 10.63" x 3.50" DP

Push Buttons: CA-93

Key Switches: ERM Ø1.393" Fire Service reset/off/on (ERM-HW1002)

Intermediate Lantern

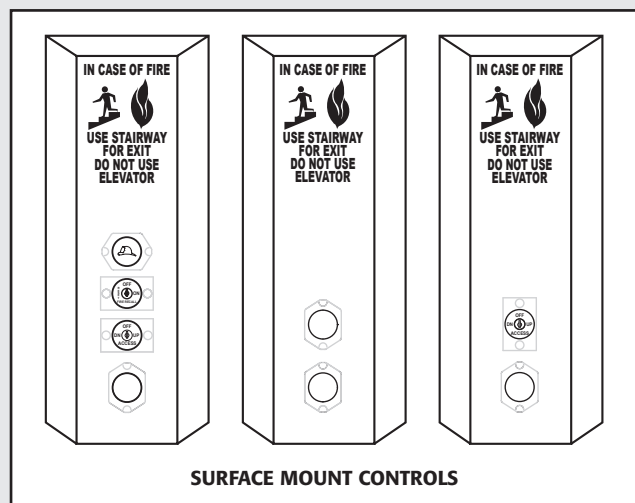
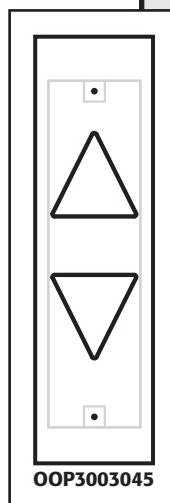
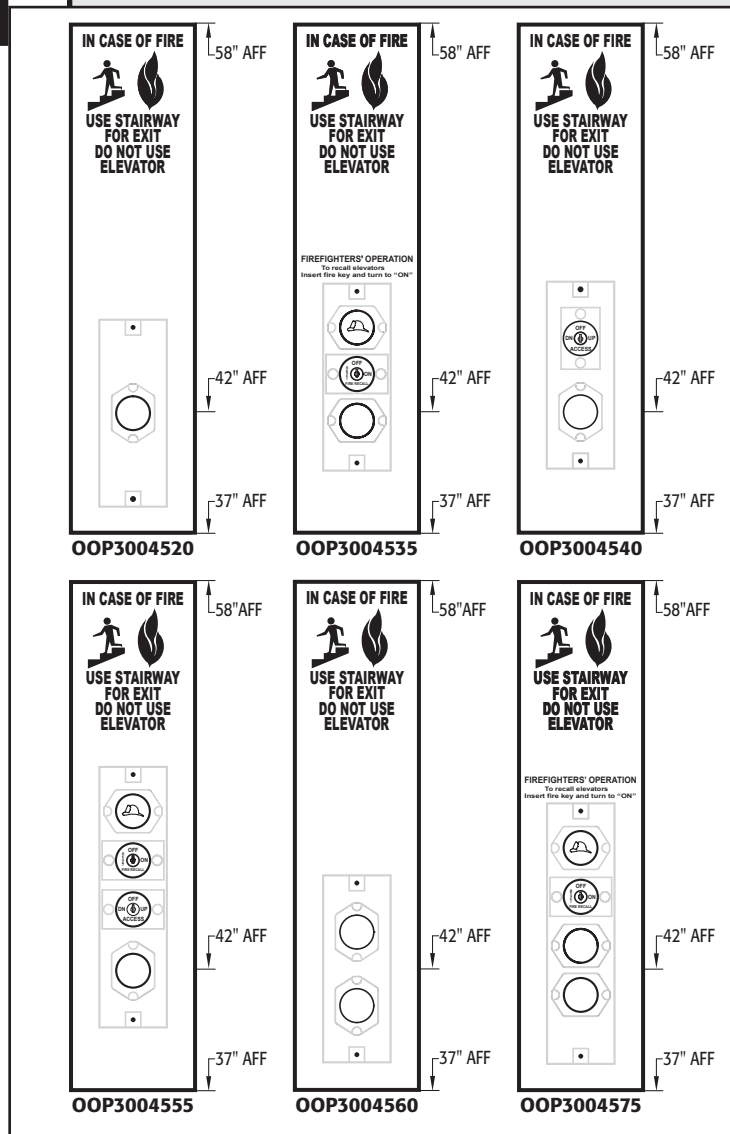
Part Number **OOP3003045**

Dimensions: Faceplate: 3.50" x 12.75"

Box: 2.75" x 10.38" x 3.50" DP

Lantern Arrows: 2.50" x 2.50"

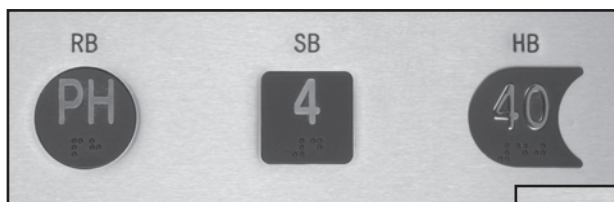
White lexan translucent plastic, extended .188" from faceplate



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Push Button/Braille Selection



Bronze characters

Please contact CED if you have specific requirements that are not illustrated on this page.


 Top row, White characters
 bottom row, Stainless Steel characters


Round Stainless Steel

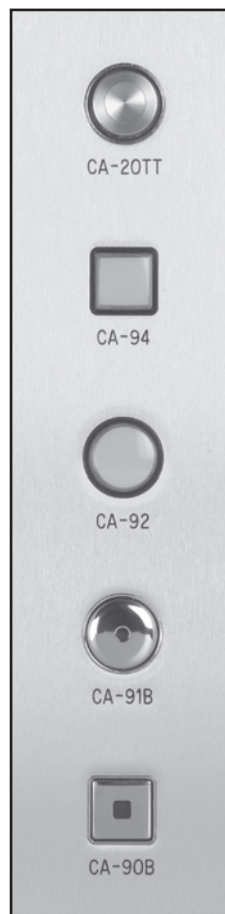
Vandal Resistant

 Round Stainless Steel
 Mirror Polished

 Square Stainless Steel
 Flush Mount
 (Also available in
 Raised Mirror Finish.)

Integrated Round

Integrated Square


 Stainless Steel
 with Bronze Center

Standard Square

Standard Round

 Round Bronze
 Mirror Polished

 Square Bronze
 Raised Mirror Polished

Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Elevator Controllers

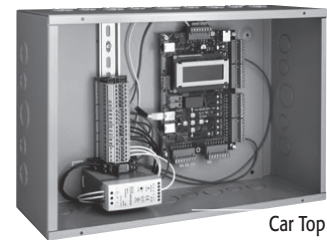
Smartrise™ Elevator Controllers

Smartrise™ is a non-proprietary, state-of-the-art elevator control platform. Built to outperform today's leading elevator controllers, the Smartrise™ system never compromises when it comes to safety. Four independent control systems divide and conquer the task of moving passengers quickly and safely to their destinations.

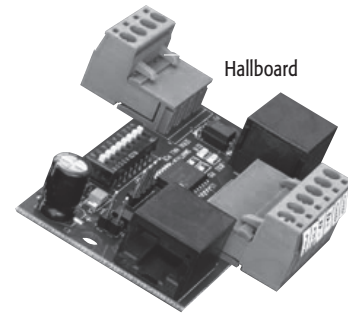
Smartrise™ controllers are designed with the field installer always in mind. Our traveler cables use five times fewer wires than many competitors. That means smaller, cheaper, lighter and easier to handle cables. But, Smartrise™ reduces more than just cables—boards, relays, and hardware in general is kept to a minimum by our software centric design. Less hardware means fewer parts that can fail, and that means fewer spare parts for the maintenance contractor to keep in stock.

Features

- Least amount of traveling and hoistway cabling.
- Lightest and slimmest panels.
- On board full diagnostic and adjustment capabilities on three locations, machine room, top of car, and car panel.
- Least number of engineering drawings.
- Least number of spare parts.
- All parts are available through a third party vendor.
- Distance and velocity feedback for all tractions and hydraulic.
- Perform car adjustments from inside the car.



Car Top



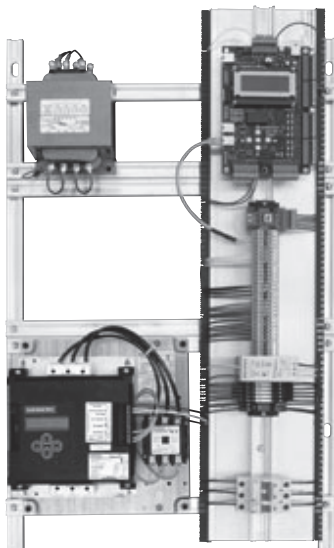
Hallboard

SRH Hydraulic Controller

The SRH Hydraulic Controller is one of the only hydraulic controllers on the market with velocity and distance feedback. It reduces valve adjustment time by watching the car performance on the screen.

Features

- Conveniently shares the same hardware and software platform as our high-end traction controllers.
- Feedback: Distance and Velocity
- Max Floors: 10
- Max Speed: 200 FPM
- Dimensions: 30" x 24" x 10"



Traction AC (Geared & Gearless)

The SRA AC Drive Traction Controller performs serial data exchange between the machine room, the top of the car and the car panel. This simplifies the programming effort with extensive communication and operator interface, available through the built-in LCD, eliminating the number of traveling cables all the way to 8-15 wires.

Features

- Application: Geared, Gearless
- Feedback: Distance and Velocity
- Max Floors: 96
- Max Speed: 1600 FPM
- Dimensions: 36" x 30" x 13"
- Location: Machine room and machine room less



Traction DC (Geared & Gearless)

The SRD DC Drive Traction Controller includes all the features of our AC controller with the option of a state-of-the-art, fully regenerative DC motor drive. It offers reduced utility line harmonics and near unity power factor.

Features

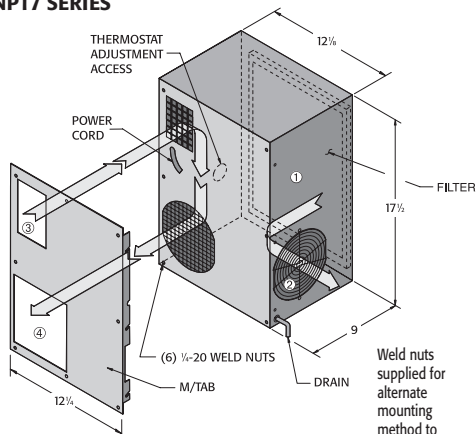
- Application: Geared, Gearless
- Feedback: Distance and Velocity
- Max Floors: 96
- Max Speed: 1600 FPM
- Dimensions: 36" x 30" x 13"
- Location: Machine room and machine room less



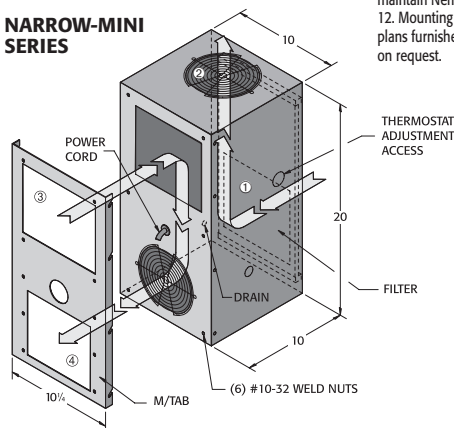
For dimensions and drawings please contact sales person

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

NP17 SERIES


Weld nuts supplied for alternate mounting method to maintain Nema 12. Mounting plans furnished on request.

NARROW-MINI SERIES


- ① Filtered Condenser Air Inlet (Ambient Air In)
- ② Condenser Outlet (Warm Ambient Air Out)
- ③ Warm Air Return From Enclosure
(Enclosure opening should be located as high as possible within this area, and equal or exceed size of cool air outlets.)
- ④ Cool Air Outlet to Enclosure

Controller Cooling Systems

Trimline Air-Cooled

Panel-Mounted Small Narrow Models

NP17 Series

Model Number	BTU/H Rating	Ambient Temp. °F Max./Min.	Volts	Hz	Running Amps
KA4C2.0NP17L	2000	125/50	115/100	60/50	6.7/6.5
KA4C2.0NP17L56	2000	125/50	115▼	50/60*	6.2/6.7
K2A4C2.0NP17L	2000	125/50	230/200	60/50	4.3

Narrow-Mini Series [NM]

Model Number	BTU/H Rating	Ambient Temp. °F Max./Min.	Volts	Hz	Running Amps
KA4C2.5NML	2500	120/50	115/100	60/50	7.1
KA4C2.5NML56	2500	120/50	115▼	50/60*	7.1
K2A4C2.5NML	2500	125/50	230/200	60/50	3.6

Approximate Weight (lbs.)

NP17 Series: 59 Narrow Mini Series: 53

Standard Features

- Built-in Condensate Evaporator
- CFC-Free Refrigerant
- Low Temperature Control Thermostat
- EMI/RFI Suppressor
- M/TAB Mounting System
- UL/CUL Listed
- NEMA 12 Rating Maintained (UL50)♦



- ♦ Weld-nut mounting method, without M/TAB
- ▼ The transformer required to reduce 115 volt supply to 100 volts for 50 Hz compressor operation is externally mounted. Consult CED for resulting dimensional changes.
- * Switchable. Switch is internally-mounted for security.

Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Controller Cooling Systems

Trimline Air-Cooled

Panel-Mounted Midsize Models

NP33 Series

Model Number	BTU/H Rating	Ambient Temp. °F		Volts	Hz	Running Amps
		Max./Min.				
KA4C4NP33L	4000	125/50	115/100	60/50	60/50	12.8
KA4C4NP33L56	4000	125/50	115	50/60*	50/60*	12.8
K2A4C4NP33L	4000	120/50	230/200	60/50	60/50	5.5

NP36 Series

Model Number	BTU/H Rating	Ambient Temp. °F		Volts	Hz	Running Amps
		Max./Min.				
KA4C4NP36L	4000	125/50	115/100	60/50	60/50	13.5
KA4C4NP36L56	4000	120/50	115	50/60*	50/60*	13.5
K2A4C4NP36L	4000	125/50	230/200	60/50	60/50	7.5
KA4C6NP36R	6000	125/50	115/100	60/50	60/50	16.5/17.0
KA4C6NP36R56	6000	125/50	115	50/60*	50/60*	15.5/16.5
K2A4C6NP36L	6000	125/50	230/200	60/50	60/50	8.2

Approximate Weight (lbs.)

NP33 Series: 90 NP36 Series: 125

Standard Features

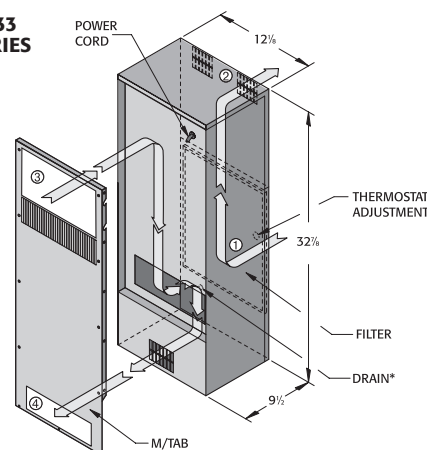
- Built-in Condensate Evaporator
- CFC-Free or Low ODP Refrigerant
- EMI/RFI Suppressor
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA 12 Rating Maintained (UL50)
- Reversible Condenser Outlet Blower
- UL/CUL Listed/Recognized*



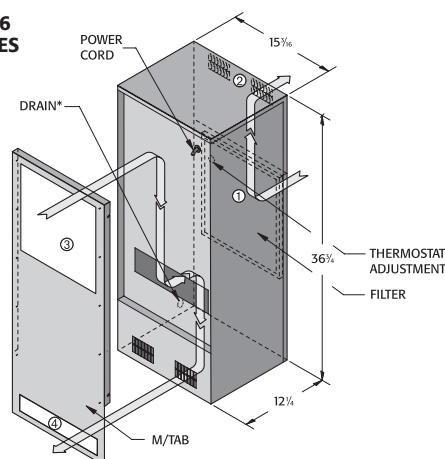
* Switchable. Switch is internally-mounted for security.

♦ UL/CUL recognized models are available as listed at added cost.

NP33 SERIES



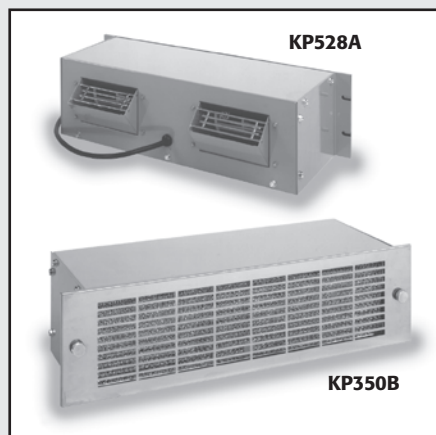
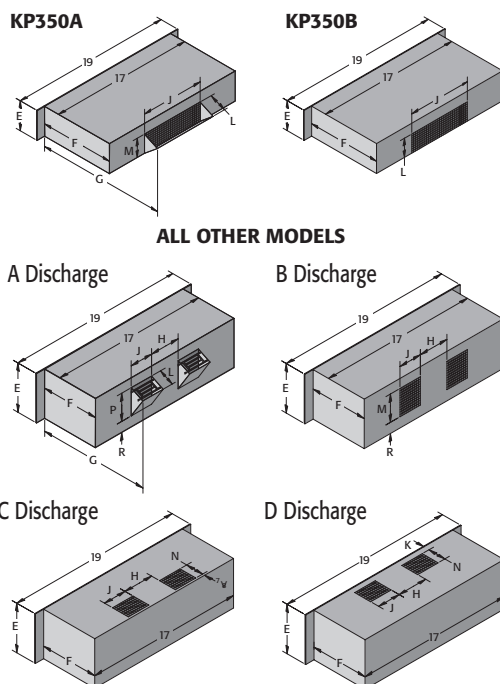
NP 36 SERIES



- ① Filtered Condenser Air Inlet (Ambient Air In)
- ② Condenser Outlet (Warm Ambient Air Out)
- ③ Warm Air Return From Enclosure
(Enclosure opening should be located as high as possible within this area, and equal or exceed size of cool air outlets.)
- ④ Cool Air Outlet to Enclosure

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970


DIMENSIONS AND DISCHARGE LOCATIONS


Controller Cooling Systems

Standard Twin Packaged Blowers

KP528A/ KP350B

Features

- Capacities: 130 to 800 CFM
- Heavy-gauge steel enclosures with EIA-notched flanges and baked powder finish
- Attractive 19-inch stainless steel grilles
- UL/CSA ball bearing motors
- Dual inlet quadruplex design for maximum airflow
- Inlet air cools motor for longer life
- Permanent filters
- Exhaust guards included
- Three foot (minimum) SJT 3-wire power cord
- Complete line of accessories

Standard Twin Packaged Blowers are the most popular Kooltronic Packaged Blower. These blowers achieve exceptional performance through use of the largest possible blower housings and wheels. Each contains a quadruplex centrifugal blower powered by a single precision ball-bearing motor.

These widely-used Standard Twin Packaged Blowers deliver air from more than 50% of their 17" width, while conventional blowers deliver air from only about 30%. Internal neoprene isolation mounts reduce transmission of vibration and AC hum to the enclosure. Long service life and trouble-free performance are assured through the use of precision ball-bearing motors in all models and by the dual inlet quadruplex design, which uses intake air to cool the motor.

Kooltronic designs and manufactures a variety of packaged blowers to meet unique specifications. Call CED to inquire about modification and custom-design capabilities.

How to Order:

Specify model number, adding discharge suffix A, B, C or D. Example: KP701A. For 230VAC operation, add a 2 after the K. Example: K2P701A.

For assistance in model selection, call CED.

Technical Data*/Dimensions [inches]

Model Number	CFM @ 0' S.P.	Cutoff S.P.	RPM Nominal	Amps Run.	L.R.	Watts	Discharge Available	Maximum Panel Height										
								E	F	G	H	J	K	L	M	N	P	R
KP350	160	0.52	1500	1.2	1.6	90	A B	3½	8¾	10½	-	7½	-	2¼	2¼	-	-	-
KP528	130	0.87	3150	0.8	1.3	65	A B C D	5¼	6¼	7½	3¼	2½	¾	1⅞	3	11½	3	1¾
KP529	300	0.87	3000	1.4	1.9	95	A B C D	5¼	6¼	7½	4⅞	4⅞	¾	1⅞	3	11½	3	1¾
KP701	330	0.42	1600	1.1	1.6	85	A B C D	7	8¼	10½	3¼	4¾	¾	4	5⅞	3¼	5⅞	7/8
KP729	470	1.40	3250	1.7	3.1	185	A B C D	7	8¼	10¼	4⅞	4⅞	1	2½	4	2½	4	1⅞
KP877	525	0.82	1500	1.3	1.9	140	A B C D	8¾	10	11½	2⅞	5½	1½	4¾	6½	3¾	6½	1¾
KP1051	800	1.00	1500	2.5	5.1	260	A B C D	10½	11½	13½	4	4½	1	5¾	7⅞	4¾	7⅞	11½

*115V, 60 Hz. operation

Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Controller Cooling Systems Indoor/Outdoor



Kooltronic "Advantage" Series

**Ready for indoor or outdoor installation
right out of the box!**

- Attractive contemporary style
- Approved for all NEMA 12 and NEMA 3R applications
- LED display monitors internal cabinet temperature

These innovative air conditioners are designed specifically for cooling electronic enclosures and can be used for both indoor and outdoor applications.

The Advantage Series exemplifies a stylish appearance with rounded edges; no visible hardware and a textured baked powder finish to blend easily with contemporary enclosure designs. Integral weather protection eliminates unsightly weather hoods, pressure switches regulate the unit's hermetic system and a patented sealing system maintains both a NEMA 12 and a NEMA 3R interface with the enclosure.

Standard features also include heavy-duty galvanized steel construction, environmentally friendly refrigerants, built-in condensate evaporator, thermostatic low temperature control, EMI/RFI surge suppressor and LED temperature display.

Available in seven heights, all utilizing the exclusive Kooltronic M/TAB integral mounting system.



RP 17 Series 17½"h x 12¾"w x 11"d

Model Number	BTU	Volt	Hz
KA4C2RP17R	2,000	115	60
K2A4C2RP17R	2,000	230	60

RP 28 Series 28"h x 12¾"w x 11"d

Model Number	BTU	Volt	Hz
KA4C3RP28R	3,000	115	60
K2A4C3RP28R	3,000	230	60

RP33 Series 32¾"h x 12¾"w x 11"d

Model Number	BTU	Volt	Hz
KA4C4RP33R	4,000	115	60
K2A4C4RP33R	4,000	230	60

RP36 Series 36¾"h x 15¾"w x 11"d

Model Number	BTU	Volt	Hz
KA4C4RP36R	6,000	115	60
K2A4C6RP36R	6,000	230	60

RP47 Series 47¼"h x 15¾"w x 13½"d

Model Number	BTU	Volt	Hz
KA3C8RP47R	8,000	115	60
K2A3C8RP47R	8,000	230	60
KA3C12RP47R	12,000	115	60
K2A3C12RP47R	12,000	230	60

RP 52 Series 52½"h x 17¾"w x 15¾"d

Model Number	BTU	Volt	Hz
K2A3C18RP52R	18,000	230	60

RP 55 Series 55"h x 12"w x 17"d

Model Number	BTU	Volt	Hz
K2A3C22RP55R	22,000	230	60

Additional Options Available

- Cooling Effect Detector
- Low Airflow Detector
- Metal Grille
- Enclosure Heater
- Stainless Steel Shells
- Aluminum Shells
- Short Cycle Protection
- Special Paint Finishes
- Internal Corrosion Resistance

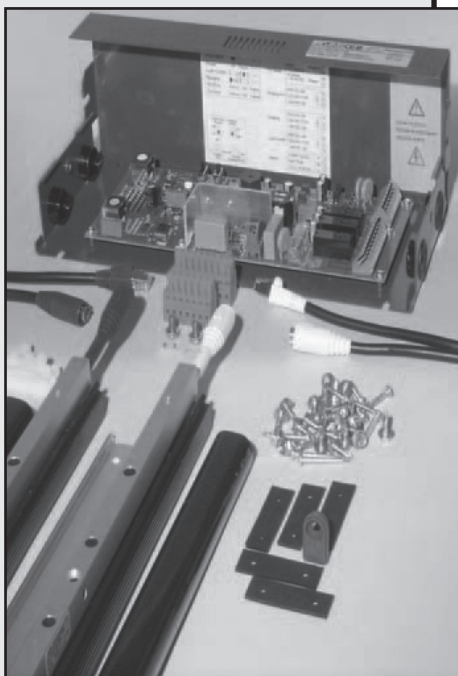
Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Built-in nudging helps keep elevators moving in environments where riders are likely to hold open the doors. Nudging time is adjustable from 1 to 60 seconds

Simple installation!

Ships complete and ready to install, with the least possible number of separate components to speed installation and limit on-site assembly decisions. GateKeeper MAX's vandal-resistant features keep it working right, and out of harm's way.



Technical Data

Supply voltage	17-265VAC/VDC; use Greenfield fittings for voltages >42V
Typical response time	90 ms
Max. response time	180 ms
Range	Up to 16ft. (5m)
Current	10VA at 115/230VAC, 200mA at 24VDC
Fuse	6.3A s/b (5 x 20mm)
Relay output (3)	AC max: 265VAC at 8.0A DC max: 125VDC at 0.5A or 24VDC at 8A DC min: 5VDC at 10.0mA (NOTE: If switching high voltage, use slave relay (not included))
Fire Recall I and II	Active: 17-265VAC/VDC Inactive: 0-5VAC/VDC
Protection height	71"
Door height	7 to 10ft.
No. of light beams	Up to 154 criss-cross beams
Light suppression	>100,000 lux
Connection plugs	WAGO 6 x 5.08
Cable length	16 ft. (5m)
Cable extension (avail)	10 ft. (3m)
Cable lifetime	20 million door movements (if installed correctly)
Enclosure rating, sensors	IP65
Enclosure rating, control unit	IP30
Vibration/shock	IEC 68-2-6 / IEC 68-2-29
Operating temp. range	-5° to +150°F (-20° to +65°C)
Storage temp. range	-20° to +220°F (-30° to +85°C)
EMC	IEC/EN 50081/50082-1, -2; EN 12015 and EN 12016
CSA	B44.1/A17.5-1996
Mounting kit	Complete

Fire Recall Phase I & Phase II: life-saving protocols in an emergency

Fire Recall Phase I

If the input labeled "Fire Recall Phase I" is activated, the light curtain is disabled and nudging is enabled. The nudging buzzer sounds; it remains on during door close and until the car arrives at the designated landing. The buzzer remains on for 15 seconds after the "Fire Service Phase I" input is deactivated.

Fire Recall Phase II

If the input labeled "Fire Recall Phase II" is activated, the light curtain output is disabled. The nudging function works independent of "Fire Recall Phase II." Operation of the doors is taken over by emergency personnel. This eliminates the need for automatic re-opening and guards against false opening caused by smoke.

Edges

GateKeeper MAX™ Infrared Curtain Unit

The only IR curtain with Phase I/Phase II Fire Recall Service... and it comes with nudging built in!

Built-in nudging

Replaces separate nudging unit for easiest installation. Factory setting of 20 sec. can be reset from 1-60 sec. Nudging buzzer volume is also adjustable.

Plugs into 17-265VAC/VDC

GateKeeper MAX is the only infrared curtain that can be connected to any operating voltage from 17-265VAC/VDC with no additional wiring or modifying! Just plug it in and let it work.

Up to 154 infrared detection beams.

Integrated diagnostic circuitry

An on-board microprocessor adjusts automatically to optical conditions within protected area. As conditions change (from dust, dirt, etc.), microprocessor resets every beam for best performance under prevailing conditions.

LED current-control system

An LED drive circuit constrains emitting current to lowest possible effective level. Result: reduced stress on LEDs help extend their life to millions of hours. This feature is unique to the GateKeeper product line.

No incidents reported

With more than 150,000 units in service, not a single incident report has been recorded. This is most meaningful to anyone who has been named in a liability suit due to an unreliable door protection system.

CSA approved, Fire-Code conformant

GateKeeper MAX meets all ANSI requirements and other U.S. and Canadian performance standards. Also conforms to Phase I and Phase II Fire Codes.

Extra-wide 16-ft. operating range

Weary of measuring door openings and matching them to the right door unit? GateKeeper MAX works with all of them. One model, one part number, one great protection device. Choose 7ft. or 10ft. model according to door height.

Moving cable tested to 20,000,000 cycles

Part Number	Description
A850G7MAX	7ft. GateKeeper MAX unit w/mounting kit; (doors up to 7ft. high)
A850G10MAX	10ft. GateKeeper MAX unit w/mounting kit; (doors 7 to 10 ft. high)
A850G7MAX-P1	Control unit (power supply)
A850G7-R1	Receiver (with blue plug)
A850G7-T1	Transmitter (with white plug)
A850G7-RR1	Receiver cable, 16ft. (blue plug)
A850G7-RT1	Transmitter cable, 16ft. (white plug)
A850G7-VS	Vision shield, 7ft.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

GateKeeper® Infrared Curtain Unit

GateKeeper is the industry choice for uncompromising door protection

Plugs into 17-240VAC/VDC

GateKeeper and GateKeeper MAX are the only infrared curtains that can be connected to any operating voltage from 17-240VAC/VDC with no additional wiring or modifying! Just plug it in and let it work.

Up to 154 infrared detection beams

Integrated diagnostic circuitry

LED current control system

No incidents reported

CSA approved

GateKeeper meets all ANSI requirements and other U.S. and Canadian performance standards.

Extra-wide 16-ft. operating range

Moving cable tested to 20,000,000 cycles

GateKeeper® 3D

Infrared Curtain System that easily retrofits to any existing mechanical or electrical system

Easy to Install

Retrofits to ANY and ALL door protection systems without removing the existing system—even electromechanical safety-edge applications. Other 3D products require removal of the existing door safety edge in order to obtain 3D functionality.

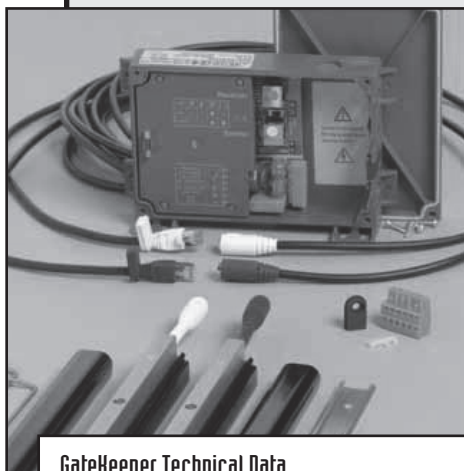
Intelligent Design

Distinguishes between static and moving objects in the 3D zone. This allows the system to override the static object's presence, enabling the door to close, thus avoiding delays.

Adjustable 3D Zone

Adjusts to aim in two dimensions. For center-opening applications, the ideal detection zone is directly in front of the door. However, for side-opening doors, the 3D sensor can also be adjusted left and right to aim the detection zone for the particular application.

Replacement	
Parts	Description
A850G7-HW	GateKeeper Hardware Bag
A850G7-MP	Mounting Profile, 7ft.
A850G7-P1	GateKeeper 2000 Control Unit (power supply)
A850G7-R1	Receiver (with blue plug)
A850G7-T1	Transmitter (with white plug)
A850G7-RR1	Receiver cable, 16ft. (blue plug)
A850G7-RT1	Transmitter cable, 16ft. (white plug)
A850G7-SP	Spacer Profile, 7ft.
A850G7-T1	Emitter White
A850G7-VS	Vision shield, 7ft.



Modular connecting cables lead the list of features that make GateKeeper the easiest-to-install infrared curtain in the world.

GateKeeper Technical Data

Supply voltage	17-240VAC/VDC; use Greenfield fittings for voltages >42V
Typical response time	90 ms
Range	Up to 16 ft. (5m)
Current	5VA at 115/240VAC 115mA at 24VDC
Relay output (3)	AC max: 265VAC at 8.0A DC max: 125VDC at 0.5A or 30VDC at 8A DC min: 5VDC at 10.0mA (NOTE: If switching high voltage, use slave relay (not included))
Protection height	71"
Door height	7 to 10 ft.
No. of light beams	Up to 154 criss-cross beams
Light suppression	>100,000 lux
Connection plugs	WAGO 6 x 5.08
Cable length	16 ft. (5m)
Cable extension (avail)	10 ft. (3m)
Cable lifetime	20 million door movements (if installed correctly)
Enclosure rating, sensors	IP65
Enclosure rating, control unit	IP54
Vibration/shock	IEC 68-2-6, -29
Operating temp. range	-5° to +150°F (-20° to +65°C)
Storage temp. range	-20° to +220°F (-30° to +85°C)
EMC	IEC/EN 50081/2, EN 12015/6
CSA	B44.1/A17.5-1996
Mounting kit	Complete



The GateKeeper 3D sensor projects the invisible 'cone' of infrared light out onto the landing to detect people and objects approaching the elevator.

Part Number	Description
A850G7	7-ft. GateKeeper unit w/mounting kit (doors up to 7ft. high)
A850G10	10-ft. GateKeeper unit w/mounting kit (doors up to 10ft. high)
A850G7WP	NEW waterproof model for doors up to 7ft. high
A8503D	GateKeeper 3-D Sensor (includes mounting hardware).
A8503D100	GateKeeper Single 3-D Rectangular Sensing Beam Kit (For use with any GateKeeper or other existing 2-D light curtain. Includes intelligent distance and motion detection, intelligent "timeout" feature, automatic door fadeout.)
A850EZ159	GateKeeper EZ-159 Economy Kit with 24 VDC power
A850EZ159110	GateKeeper EZ-159 Economy Kit with 110 VAC power
A850EZ1593D	GateKeeper EZ-159 Kit with 3-D Sensing Beam

Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Notes



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Full line catalog available upon request

FUSES



Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

8

Class CC Fuses	
ATDR Time-Delay	8.2
ATQR Time-Delay	8.2
ATMR Time-Delay	8.2
Midget Fuses	
ATM Fast-Acting	8.3
TRM Time-Delay	8.3
ATQ Time-Delay	8.3
OTM Fast-Acting	8.4
SBS Fast-Acting	8.4
Class RK5 Time-Delay Fuses	
TR Time-Delay	8.5
TRS Time-Delay	8.5
A6D(A)R Time-Delay	8.5
Electronic Fuses	
GAB Fast-Acting	8.6
GGC Fast-Acting	8.6
GDL Time-Delay	8.6
GGM Fast-Acting	8.7
GSC Time-Delay	8.7
GSD Fast-Acting	8.8
GDG Time-Delay	8.8
One-Time Fuses	
OTN Non-Limiting	8.9
OTS Non-Limiting	8.9
Semiconductor Fuses	
A30QS Series	8.10
A50QS Series	8.10
A70QS Series	8.10

Catalog Symbol**600 Volts AC**

ATDR-1/2	ATDR-2 1/2	ATDR-7 1/2
ATDR-6/10	ATDR-2 9/10	ATDR-8
ATDR-8/10	ATDR-3	ATDR-9
ATDR-1	ATDR-3 3/10	ATDR-10
ATDR-1 1/8	ATDR-3 1/2	ATDR-12
ATDR-1 1/4	ATDR-4	ATDR-15
ATDR-1 1/10	ATDR-4 1/2	ATDR-20
ATDR-1 1/2	ATDR-5	ATDR-25
ATDR-1 9/10	ATDR-5 9/10	ATDR-30
ATDR-1 9/10	ATDR-6	
ATDR-2	ATDR-6 1/4	
ATDR-2 1/4	ATDR-7	

Catalog Symbol & Current Ratings**600 Volts AC**

ATQR-1/4	ATQR-1 9/10	ATQR-7
ATQR-3/10	ATQR-1 9/10	ATQR-7 1/2
ATQR-4/10	ATQR-2	ATQR-8
ATQR-1/2	ATQR-2 1/4	ATQR-9
ATQR-5/10	ATQR-2 1/2	ATQR-10
ATQR-3/4	ATQR-2 9/10	ATQR-12
ATQR-9/10	ATQR-3	ATQR-15
ATQR-1	ATQR-3 3/10	ATQR-17 1/2
ATQR-1 1/8	ATQR-3 1/20	ATQR-20
ATQR-1 1/4	ATQR-4	ATQR-25
ATQR-1 3/10	ATQR-5	ATQR-30
ATQR-1 4/10	ATQR-6	—
ATQR-1 1/2	ATQR-6 1/4	—

Catalog Symbol & Current Ratings**600 Volts AC**

ATMR-1/10	ATMR-1	ATMR-7
ATMR-1/8	ATMR-1 1/2	ATMR-8
ATMR-2/10	ATMR-2	ATMR-9
ATMR-1/4	ATMR-2 1/2	ATMR-10
ATMR-3/10	ATMR-3	ATMR-12
ATMR-4/10	ATMR-3 1/2	ATMR-15
ATMR-1/2	ATMR-4	ATMR-20
ATMR-5/10	ATMR-5	ATMR-25
ATMR-3/4	ATMR-6	ATMR-30

**ATDR AMP-TRAP 2000®**

**Time-Delay Current Limiting,
Class CC – Rejection Type**

Physical Size: 1 3/32" x 1 1/2" (10.3mm x 38.1mm)

Ampere Ratings: 1/4–30 Amps.

Voltage Rating: 600 Volts AC (or less), 300V DC

Interrupting Rating: 200,000A; 100,000A DC

Construction: Fiberglass Tube

Agency Information: Std. 248-4, Class CC

UL Listed, Guide JDDZ, File E4273

CSA Certified; Class 1422-02, File 53787

**ATQR AMP-TRAP 2000®**

**Time-Delay Branch Circuit Fuse
Class CC – Rejection Type**

Physical Size: 1 3/32" x 1 1/2" (10.3mm x 38.1mm)

Construction: Fiberglass Tube

Ampere Ratings: 1/10–30 Amps.

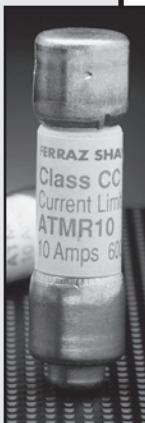
Voltage Rating: 600V AC, 300 DC

Interrupting Rating: 200,000A; 100,000A DC

Agency Information: Std. 248-4, Class CC

UL Listed, Guide JDDZ, File E3127

CSA Certified, Class 1422-01, File 012636

**ATMR AMP-TRAP 2000®**

**Fast Acting; Branch Circuit Fuse
Class CC – Rejection Feature**

Physical Size: 1 3/32" x 1 1/2" (10.3mm x 38.1mm)

Construction: Fiberglass Tube

Ampere Ratings: 1/10–30 Amps.

Voltage Rating: 600 Volts AC (or less).

Interrupting Rating: 200,000A; 100,000A DC

Agency Information: Std. 248-4, Class CC

UL Listed, Guide JDDZ, File E2137

CSA Certified, Class 1422-02, File 012636

Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Midget Fuses

ATM AMP-TRAP®

Fast Acting

Physical Size: $1\frac{3}{32}$ " x $1\frac{1}{2}$ "
(10.3mm x 38.1mm)

Construction: Melamine Tube;
Nickel Plated Brass Endcaps

Voltage Rating:

ATM – 600V AC/600V DC
 $\frac{7}{10}$ –10A: 500V AC/DC,
12–30A: 500VAC/600VDC

Interrupting Rating:

100,000A
10,000A - RMS SYM. (UL)

Agency Information:

Std. 248-14
UL Listed, Guide JDYX, File E33925
CSA Certified, File 53787, Class 1422-01, HRC-Misc



ATM Catalog Symbol & Current Ratings

600 Volts AC - UL Listed and C.S.A.

ATM- $\frac{1}{10}$	ATM- $\frac{3}{4}$	ATM-4	ATM-12
ATM- $\frac{1}{8}$	ATM-1	ATM-5	ATM-15
ATM- $\frac{2}{10}$	ATM-1 $\frac{1}{4}$	ATM-6	ATM-20
ATM- $\frac{1}{4}$	ATM-1 $\frac{1}{2}$	ATM-7	ATM-25
ATM- $\frac{3}{10}$	ATM-2	ATM-7 $\frac{1}{2}$	ATM-30
ATM- $\frac{4}{10}$	ATM-2 $\frac{1}{2}$	ATM-8	—
ATM- $\frac{1}{2}$	ATM-3	ATM-9	—
ATM- $\frac{5}{10}$	ATM-3 $\frac{1}{2}$	ATM-10	—

*500 Volts AC/DC - UL Recognized and C.S.A.

TRM TRI-ONIC®

Time-Delay

Physical Size: $1\frac{3}{32}$ " x $1\frac{1}{2}$ " (5 AG)
(10.3mm x 38.1mm)

Construction: Fibre Tube

Ampere Ratings: $\frac{1}{10}$ –30 Amps.

Voltage Rating: 250 Volts AC

Interrupting Rating: 10,000A

Agency Information:

Std. 248-14
UL Listed; Guide JDYX; File E33925;
CSA Certified, Class 1422-01;
File 012636



TRM Catalog Symbol & Current Ratings

250 Volts AC

TRM- $\frac{1}{10}$	TRM-1 $\frac{1}{8}$	TRM-3 $\frac{3}{10}$	TRM-8
TRM- $\frac{15}{100}$	TRM-1 $\frac{1}{4}$	TRM-3 $\frac{1}{2}$	TRM-9
TRM- $\frac{2}{10}$	TRM-1 $\frac{4}{10}$	TRM-4	TRM-10
TRM- $\frac{1}{4}$	TRM-1 $\frac{6}{10}$	TRM-4 $\frac{1}{2}$	TRM-12
TRM- $\frac{3}{10}$	TRM-1 $\frac{8}{10}$	TRM-5	TRM-15
TRM- $\frac{4}{10}$	TRM-2	TRM-5 $\frac{5}{10}$	TRM-20
TRM- $\frac{1}{2}$	TRM-2 $\frac{1}{4}$	TRM-6	TRM-25
TRM- $\frac{6}{10}$	TRM-2 $\frac{1}{2}$	TRM-6 $\frac{1}{4}$	TRM-30
TRM- $\frac{8}{10}$	TRM-2 $\frac{8}{10}$	TRM-7	—
TRM-1	TRM-3	—	—

ATQ AMP-TRAP®

Time-Delay

Physical Size: $1\frac{3}{32}$ " x $1\frac{1}{2}$ " (5 AG) (10.3mm x 38.1mm)

Construction: Fibre Tube

Ampere Ratings: $\frac{1}{10}$ –30 Amps.

Voltage Rating: 500V AC or less

Interrupting Rating: 10,000A RMS Sym.

Agency Information:

Std. 248-14
UL Listed, Guide JDYX, File E33925
CSA Certified, Class 1422-01, File 012636



ATQ Catalog Symbol & Current Ratings

500 Volts AC

ATQ- $\frac{1}{10}$	ATQ- $\frac{6}{10}$	ATQ-2	ATQ-5
ATQ- $\frac{1}{8}$	ATQ- $\frac{8}{10}$	ATQ-2 $\frac{1}{4}$	ATQ-5 $\frac{5}{10}$
ATQ- $\frac{15}{100}$	ATQ-1	ATQ-2 $\frac{1}{2}$	ATQ-6
ATQ- $\frac{3}{16}$	ATQ-1 $\frac{1}{8}$	ATQ-2 $\frac{8}{10}$	ATQ-6 $\frac{1}{4}$
ATQ- $\frac{2}{10}$	ATQ-1 $\frac{1}{4}$	ATQ-3	ATQ-7
ATQ- $\frac{1}{4}$	ATQ-1 $\frac{4}{10}$	ATQ-3 $\frac{3}{10}$	ATQ-8
ATQ- $\frac{3}{10}$	ATQ-1 $\frac{1}{2}$	ATQ-3 $\frac{1}{2}$	ATQ-9
ATQ- $\frac{4}{10}$	ATQ-1 $\frac{6}{10}$	ATQ-4	ATQ-10
ATQ- $\frac{1}{2}$	ATQ-1 $\frac{8}{10}$	ATQ-4 $\frac{1}{2}$	—

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Catalog Symbol & Current Ratings
250 Volts

OTM-1	OTM-4	OTM-8	OTM-20
OTM-2	OTM-5	OTM-10	OTM-25
OTM-3	OTM-6	OTM-15	OTM-30


Catalog Symbol & Current Ratings
600 Volts AC

SBS- $\frac{2}{10}$	SBS-1	SBS-3	SBS-10
SBS- $\frac{4}{10}$	SBS-1 $\frac{1}{2}$	SBS-4	SBS-12
SBS- $\frac{1}{2}$	SBS-1 $\frac{6}{10}$	SBS-5	SBS-15
SBS- $\frac{3}{4}$	SBS-1 $\frac{8}{10}$	SBS-6	SBS-20
SBS- $\frac{8}{10}$	SBS-2	SBS-7	SBS-25
		SBS-8	SBS-30



Midget Fuses

OTM - One-Time

Fast Acting

Physical Size: $1\frac{1}{2}$ " x $1\frac{1}{2}$ " (10.3mm x 38.1mm)

Construction: Fibre Tube; Nickel Plated Brass Endcaps

Voltage Rating: 250V AC ($\frac{2}{10}$ -15A), 125V AC (20-30A)

Interrupting Rating: 10,000A at 125V AC

Agency Information: Std. 248-14

UL 0-15/250V, Guide JDYX, File E33925

CSA Certified, 0-15/250V, Class 1422-01, File 012636

SBS - General Purpose

Fast Acting

Physical Size: $1\frac{3}{32}$ " x $1\frac{3}{8}$ " (10.3mm x 35mm)

Construction: Fibre Cartridge

Voltage Rating: 600V AC

Interrupting Rating: 100,000A

Agency Information: Std. 248-14

UL 0-5/600V, Guide JDYX, File E33925

CSA Certified, 0-5A/600V, Class 1422-01, File 012636

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

TRI-ONIC® SmartSpot® Time-Delay Class RK5 Fuses

When sized properly...

- Provides motor overload, ground fault and short-circuit protection.
- Helps protect motors against burnout from overloads and from single phasing on three phase systems.
- Simplifies and improves blackout prevention (selective coordination).

TR (250V)

Dual Element Time Delay:

10 seconds (minimum) at 500% rated current

Ratings: AC: 1/10-600A, 250VAC, 200kA I.R.

DC: 1/10-2 1/10A & 35 to 400A, 250VDC, 20kA I.R.;
3 to 30A & 450 to 600A, 160VDC, 20kA I.R.

Current Limiting RK5 Fuse

Agency Information:

Std. 248-12, Class RK5
UL Listed, Guide JDDZ, File E2137
CSA Certified, Class 1422-01,
File 012636

TRS (600V)

Dual Element Time Delay:

10 seconds (minimum) at 500%
rated current

Ratings: AC: 1/10-600A, 600VAC, 200kA I.R.

DC: 1/10-12A, 600VDC, 20kA I.R.;
15 to 60A, 300VDC, 20kA I.R.
70 to 600A, 600VDC, 100kA I.R.

Current Limiting RK5 Fuse

Agency Information:

Std. 248-12, Class RK5
UL Listed, Guide JDDZ, File E2137
CSA Certified, Class 1422-02, File 012636



A6D(A)R (600V)

Dual Element Time Delay:

10 seconds (minimum) at 500% rated
current (8 seconds for 0-30A sizes)

Ampere Ratings: 1/10-600 Amps.

Voltage Rating: 600 Volts AC (or less),
300 Volts DC

Current Limiting RK1 Fuse

Interrupting Rating:

AC: 300,000A RMS Sym.
DC: 100,000A

Agency Information:

UL Listed - Special Purpose,*
Guide JFHR, File E2137
CSA Certified (200,000 A I.R.),
Class RK1 per CSA C22.2, No. 248.12,
Class 1422-02, File 012636

*Meets all performance requirements of
UL Standard 248-12 for Class RK1 fuses.



Catalog Numbers (250V AC/125V DC)

TR-1/10R	TR-2R	TR-10R	TR-100R
TR-1/8R	TR-2 1/4R	TR-12R	TR-110R
TR-1 5/100R	TR-2 1/2R	TR-15R	TR-125R
TR-3/10R	TR-2 8/10R	TR-17 1/2R	TR-150R
TR-1/4R	TR-3R	TR-20R	TR-175R
TR-3/10R	TR-3 3/10R	TR-25R	TR-200R
TR-4/10R	TR-3 1/2R	TR-30R	TR-225R
TR-1/2R	TR-4R	TR-35R	TR-250R
TR-6/10R	TR-4 1/2R	TR-40R	TR-300R
TR-8/10R	TR-5R	TR-45R	TR-350R
TR-1R	TR-5 6/10R	TR-50R	TR-400R
TR-1 1/8R	TR-6R	TR-60R	TR-450R
TR-1 1/4R	TR-6 1/4R	TR-70R	TR-500R
TR-1 1/10R	TR-7R	TR-75R	TR-600R
TR-1 1/2R	TR-7 1/2R	TR-80R	-
TR-1 6/10R	TR-8R	TR-85R	-
TR-1 8/10R	TR-9R	TR-90R	-

Catalog Numbers (600V AC/ 300V DC)

TRS-1/10R	TRS-2R	TRS-10R	TRS-100R
TRS-1/8R	TRS-2 1/4R	TRS-12R	TRS-110R
TRS-1 5/100R	TRS-2 1/2R	TRS-15R	TRS-125R
TRS-3/10R	TRS-2 8/10R	TRS-17 1/2R	TRS-150R
TRS-1/4R	TRS-3R	TRS-20R	TRS-175R
TRS-3/10R	TRS-3 3/10R	TRS-25R	TRS-200R
TRS-4/10R	TRS-3 1/2R	TRS-30R	TRS-225R
TRS-1/2R	TRS-4R	TRS-35R	TRS-250R
TRS-6/10R	TRS-4 1/2R	TRS-40R	TRS-275R
TRS-8/10R	TRS-5R	TRS-45R	TRS-300R
TRS-1R	TRS-5 6/10R	TRS-50R	TRS-325R
TRS-1 1/8R	TRS-6R	TRS-60R	TRS-350R
TRS-1 1/4R	TRS-6 1/4R	TRS-70R	TRS-400R
TRS-1 1/10R	TRS-7R	TRS-75R	TRS-450R
TRS-1 1/2R	TRS-7 1/2R	TRS-80R	TRS-500R
TRS-1 6/10R	TRS-8R	TRS-85R	TRS-600R
TRS-1 8/10R	TRS-9R	TRS-90R	-

Catalog Numbers (600V AC/300V DC)

A6D-1/10RSP	A6D-2 1/2RSP	A6D-12RSP	A6D-110RSP
A6D-3/10RSP	A6D-2 8/10RSP	A6D-15RSP	A6D-125RSP
A6D-1/4RSP	A6D-3RSP	A6D-17 1/2RSP	A6D-150RSP
A6D-1/2RSP	A6D-3 1/2RSP	A6D-20RSP	A6D-175RSP
A6D-3/10RSP	A6D-3 3/10RSP	A6D-25RSP	A6D-200RSP
A6D-4/10RSP	A6D-4RSP	A6D-30RSP	A6D-225RSP
A6D-1RSP	A6D-4 1/2RSP	A6D-35RSP	A6D-250RSP
A6D-1 1/8RSP	A6D-5RSP	A6D-40RSP	A6D-300RSP
A6D-1 1/4RSP	A6D-5 6/10RSP	A6D-45RSP	A6D-350RSP
A6D-1 1/10RSP	A6D-6RSP	A6D-50RSP	A6D-400RSP
A6D-1 1/2RSP	A6D-6 1/4RSP	A6D-60RSP	A6D-450RSP
A6D-1 6/10RSP	A6D-7RSP	A6D-70RSP	A6D-500RSP
A6D-1 8/10RSP	A6D-8RSP	A6D-80RSP	A6D-600RSP
A6D-2 1/4RSP	A6D-9RSP	A6D-90RSP	-
	A6D-10RSP	A6D-100RSP	-

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Current Rating	Max. Rated Voltage AC	Current Rating	Max. Rated Voltage AC
1/8	250V	5	250V
1/4	250V	6	250V
3/8	250V	7	250V
1/2	250V	8	250V
3/4	250V	10	250V
1	250V	12	250V
2	250V	15	250V
2 1/2	250V	20	250V
3	250V	25	250V
4	250V	30	250V

Current Rating	Rated Voltage (Max.)		Current Rating	Rated Voltage (Max.)	
	AC	DC ^{1,2}		AC	DC ^{1,2}
1/100	250V	250V	1 1/4	250V	250V
1/32	250V	250V	1 1/2	250V	250V
1/16	250V	250V	1 3/4	250V	250V
1/10	250V	250V	1 6/10	250V	250V
1/8	250V	250V	2	250V	250V
15/100	250V	250V	2 1/4	250V	250V
175/1000	250V	250V	2 1/2	250V	250V
3/16	250V	250V	3	250V	250V
2/10	250V	250V	3 3/10	250V	250V
1/4	250V	250V	4	250V	250V
3/10	250V	250V	5	250V	250V
3/8	250V	250V	6	250V	250V
4/10	250V	250V	6 3/10	250V	250V
1/2	250V	250V	7	32V	32V
6/10	250V	250V	7 1/2	32V	32V
3/4	250V	250V	8	32V	32V
8/10	250V	250V	10	32V	32V
1	250V	250V	12	250V	250V

Current Rating	Rated Voltage (Max.)		Current Rating	Rated Voltage (Max.)	
	AC	DC ^{1,2}		AC	DC ^{1,2}
1/16	250V	250V	1 1/4	250V	250V
1/10	250V	250V	1 1/2	250V	250V
1/8	250V	250V	1 6/10	250V	250V
15/100	250V	250V	1 8/10	250V	250V
175/1000	250V	250V	2	250V	250V
3/16	250V	250V	2 1/4	250V	250V
2/10	250V	250V	2 1/2	250V	250V
1/4	250V	250V	2 8/10	250V	250V
3/10	250V	250V	3	250V	250V
3/8	250V	250V	3 3/10	250V	250V
4/10	250V	250V	4	250V	250V
1/2	250V	250V	5	250V	250V
6/10	250V	250V	6	250V	250V
7/10	250V	250V	6 1/4	250V	250V
3/4	250V	250V	7	250V	250V
8/10	250V	250V	8	250V	250V
1	250V	250V	10	32V	32V

¹DC ratings are self certified. ²0-8A is UL listed for 125VDC.



Electronic Fuses

GAB

Fast-Acting

Physical Size: 1/4" x 1 1/4" (3AB) (6.3mm x 32mm)

Construction: Ceramic Tube

Nickel Plated Brass End Caps

Agency Information: Std. 248-14

UL Listed, Guide JDYX File E90660, 0-15A

UL Recognized, Guide JDYX2, File E19180, 20-25A

CSA Certification, Class 1422-01, File 53787,

0-15A, Class 1422-30, File 53787, 20-25A

GGC

GGC-V (Axial Leads)

Fast-Acting

Physical Size: 1/4" x 1 1/4" (3AG) (6.3mm x 32mm)

Construction: Glass Tube

Nickel Plated Brass End Caps

Agency Information: Std. 248-14

UL Listed, Guide JDYX, File E90660, 0-10A

UL Recognized, Guide JDYX2, File E19180, 15-30A

CSA Certification, Class 1422-01, File 53787

GDL

GDL-V (Axial Leads)

Time-Delay

Physical Size: 1/4" x 1 1/4" (3AG) (6.3mm x 32mm)

Construction: Glass Tube

Nickel Plated Brass End Caps

Agency Information: Std. 248-14

UL Listed, Guide JDYX, File E90660; 1/16-8A

CSA Certification Class 1422-01, File 53787, 1/16-8A

UL Recognized, Guide JDYX2, File E19180, 8.1-30A

Additional sizes available upon request.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Electronic Fuses N. American Standards

GGM

GGM-V (Axial Leads)

Fast-Acting

Physical Size: 0.197" x 0.788" (5mm x 20mm)

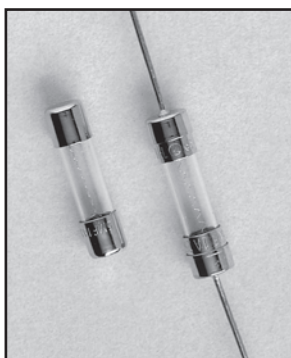
Construction: Glass Tube, Nickel Plated Brass End Caps

Agency Information: Std. 248-14

UL Listed Guide JDYX, File E90660, 1/10-3

UL Recognized, Guide JDYX2, File E90660, 7-15A

CSA Certified, Class 1422-01, File E90660, 0-6A



GSC

GSC-V (Axial Leads)

Medium Time-Delay

Physical Size: 0.197" x 0.788" (5mm x 20mm)

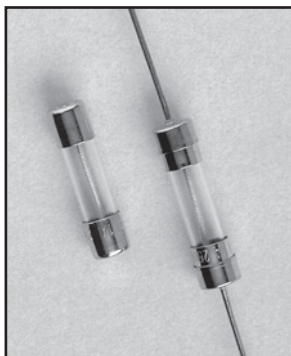
Construction: Glass Tube, nickel plated brass end caps

Agency Information: Std. 248-14

UL Listed Guide JDYX, File E33925, 0-6.3A

UL Recognized, Guide JDYX2, File E33925, 7-8A

CSA Certified, Class 1422-01, File 65063, 0-6.3A



Current Ratings

Rated Voltage: 250V AC

Breaking Capacity: 35A/250V, 10kA/125V, p.f. = 0.7-0.8

63mA	200mA	315mA	750mA
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100mA	250mA	500mA	800mA
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125mA	300mA	600mA	1A
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Breaking Capacity: 100A/250V, 10kA/125V, p.f. = 0.7-0.8

1.25A	1.5A	1.6A	2A	2.5A
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Rated Voltage: 125V AC

Breaking Capacity: 10kA/125V, p.f. = 0.7-0.8

3.15A	3.5A	5A	4A	6A
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Breaking Capacity: 200A/125V, p.f. = 1.0

7A	8A
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Breaking Capacity: 150A/125V, p.f. = 1.0

10A	15A
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Current Ratings

Rated Voltage: 250V AC

Breaking Capacity: 35A/250V, 10kA/125V, p.f. = 0.7-0.8

63mA	150mA	315mA	630mA
------	-------	-------	-------

80mA	200mA	400mA	750mA
------	-------	-------	-------

100mA	250mA	500mA	800mA
-------	-------	-------	-------

125mA	300mA	600mA	1A
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Breaking Capacity: 100A/250V, 10kA/125V, p.f. = 0.7-0.8

1.25A	1.6A	2.5A	3A	3.15A
-------	------	------	----	-------

1.5A	2A
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Rated Voltage: 125V AC

Breaking Capacity: 10kA/125V, p.f. = 0.7-0.8

3.5A	4A	5A	6A
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Breaking Capacity: 200A/125V, p.f. = 1.0

6.3A	7A	8A	10A
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Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Electrical Characteristics

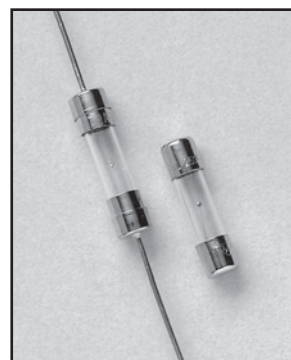
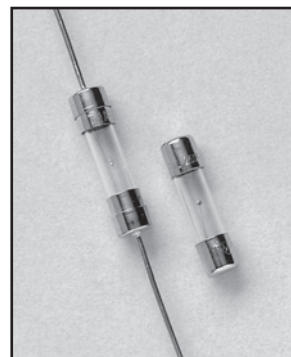
Current Rating	I ² t	Max Voltage Drop (mV)	Current Rating	I ² t	Max Voltage Drop (mV)
50mA	0.0017	9000	630mA	0.064	1200
63mA	0.0005	3300	800mA	0.097	490
80mA	0.0011	2600	1A	0.480	230
100mA	0.0018	2300	1.25A	0.9	200
125mA	0.0037	1900	1.6A	1.9	180
160mA	0.008	1600	2A	2.0	205
200mA	0.020	1350	2.5A	3.9	190
250mA	0.027	1300	3.15A	8.1	160
315mA	0.010	1400	4A	14	160
400mA	0.018	1200	5A	25	155
500mA	0.038	1050	6.3A	48	150

Electrical Characteristics

Current Rating	I ² t	Max Voltage Drop (mV)	Current Rating	I ² t	Max Voltage Drop (mV)
32mA	0.0014	1050	500mA	0.75	168
40mA	0.0034	920	630mA	1.3	158
50mA	0.006	800	800mA	3.1	132
63mA	0.012	760	1A	3.6	85
80mA	0.015	580	1.25A	7	80
100mA	0.022	490	1.6A	10	80
125mA	0.034	390	2A	17	80
160mA	0.052	320	2.5A	34	80
200mA	0.078	340	3.15A	56	75
250mA	0.17	270	4A	91	75
315mA	0.41	250	5A	133	75
400mA	0.61	210	6.3A	270	65

Electronic Fuses

IEC Standards

GSD**GSD-V (Axial Leads)****Fast-Acting, High Breaking Capacity****Physical Size:** 0.197" x 0.788" (5mm x 20mm)**Construction:** Ceramic Tube, Nickel Plated Brass Endcaps**Voltage Rating:** 250V AC or less**Interrupting Rating:** 1500A @ 250V AC
Agency Information: UL Recognized, Guide JDYX2, File E75865, 50mA and 315mA-6.3A
 SEMKO Approval 50mA, 200mA and 315mA-6.3A
 IEC 127-SI
**GDG****GDG-V (Axial Leads)****Time Delay, Low Breaking Capacity****Physical Size:** 0.197" x 0.788" (5mm x 20mm)**Construction:** Ceramic Tube, Nickel Plated Brass Endcaps**Voltage Rating:** 250V AC or less**Interrupting Rating:** 35A @ 250V AC
Agency Information: Designed to IEC (Pub 127) Sheet III
 British Standard Approval
 SEMKO Approval; VDE Approval, IMQ
 UL Recognized, Guide JDYX2, File E75865, 32mA-6.3A
**Questions? Answers at...**
Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

One-Time General Purpose Fuses

OTN & OTS - One-Time

General Purpose, Non-Current Limiting

Ampere Ratings: 1/8–600 Amps.

Voltage Rating:

NON: 250 Volts AC, 125 Volts DC (0–100A);

NOS: 600 Volts AC

Interrupting Rating: 50,000A RMS Sym. (1–60A),

10,000A RMS Sym. (65–600A)

10,000A @ 125V DC (NON 0–100A)

Agency Information:

UL Listed 250V: Class K5 (0–60A), Std. 248-9

Class H (65–600A), Std. 248-6

600V: Class K5 (0–60A), Std. 248-9

Class H (70–600A), Std. 248-6

Guide JDDZ, File E2137

CSA Certified – 250V: (0–12, 65–600) 600V: (0–600)

Class 1421-01, File 012636



Catalog Numbers (250V AC)

OT-1/8	OT-5	OT-40	OT-175
OT-1/2	OT-6	OT-45	OT-200
OT-3/4	OT-6 1/4	OT-50	OT-225
OT-8/10	OT-7	OT-60	OT-250
OT-1	OT-8	OT-65	OT-300
OT-1 1/4	OT-9	OT-70	OT-350
OT-1 1/2	OT-10	OT-75	OT-400
OT-1 6/10	OT-12	OT-80	OT-450
OT-2	OT-15	OT-90	OT-500
OT-2 1/2	OT-20	OT-100	OT-600
OT-3	OT-25	OT-110	—
OT-3 2/10	OT-30	OT-125	—
OT-4	OT-35	OT-150	—

Catalog Numbers (600V AC)

NOS-1	OTS-12	OTS-70	OTS-200
OTS-2	OTS-15	OTS-75	OTS-225
OTS-3	OTS-20	OTS-80	OTS-250
OTS-4	OTS-25	OTS-90	OTS-300
OTS-5	OTS-30	OTS-100	OTS-350
OTS-6	OTS-35	OTS-110	OTS-400
OTS-7	OTS-40	OTS-125	OTS-450
OTS-8	OTS-45	OTS-150	OTS-500
OTS-9	OTS-50	OTS-175	OTS-600
OTS-10	OTS-60	—	—

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

High-Speed Semiconductor Fuses

A30QS 250V Electrical Characteristics

Part Number	Rated Current RMS-Amps	I ² t (A ² SEC)		Watts Loss	Part Number	Rated Current RMS-Amps	I ² t (A ² SEC)		Watts Loss
		Pre-Arc	Clearing at 250V				Pre-Arc	Clearing at 250V	
A30QS-35-4	35	50	230	4.2	A30-275-4	275	4720	21600	31
A30QS-40-4	40	60	310	5.2	A30-300-4	300	6000	27300	32
A30QS-45-4	45	80	390	5.7	A30-350-4	350	10600	48600	39
A30QS-50-4	50	100	520	6.0	A30-400-4	400	14500	66100	44
A30QS-60-4	60	140	740	8.1	A30-450-4	450	22100	101000	49
A30QS-70-4	70	330	1400	7.2	A30-500-4	500	28000	128000	54
A30QS-80-4	80	430	1850	8.1	A30-600-4	600	41100	188000	62
A30QS-90-4	90	570	2450	9.0	A30-700-4	700	48800	190000	72
A30QS-100-4	100	740	3150	10.0	A30-800-4	800	59000	230000	84
A30QS-125-4	125	1130	4850	12.5	A30-1000-128	1000	44000	360000	100
A30QS-150-4	150	1620	6950	15.7	A30-1200-128	1200	92000	750000	103
A30QS-175-4	175	2170	9300	18.5	A30-1500-128	1500	120000	880000	140
A30QS-200-4	200	2790	12000	22	A30-1600-128	1600	160000	1200000	140
A30QS-225-4	225	3210	14700	24	A30-2000-128	2000	320000	2300000	151
A30QS-250-4	250	3960	18100	27	A30-2500-128	2500	670000	4700000	163

A50QS 500V Electrical Characteristics

Part Number	Rated Current RMS-Amps	I ² t (A ² SEC)		Watts Loss	Part Number	Rated Current RMS-Amps	I ² t (A ² SEC)		Watts Loss
		Pre-Arc	Clearing at 500V				Pre-Arc	Clearing at 500V	
A50P-35-4	35	34	150	.8	A50QS-225-4	225	4600	23300	39
A50P-40-4	40	76	320	7.5	A50QS-275-4	275	7900	40300	46
A50P-45-4	45	105	450	7.5	A50QS-300-4	300	9800	49800	51
A50P-50-4	50	135	670	7.5	A50QS-325-4	325	13700	63800	53
A50P-60-4	60	210	900	9.9	A50QS-350-4	350	14500	72900	58
A50P-70-4	70	210	900	10.6	A50QS-400-4	400	19200	96700	65
A50P-80-4	80	305	1400	12.7	A50QS-450-4	450	24700	127000	74
A50P-90-4	90	360	1600	15	A50QS-500-4	500	29200	149000	84
A50P-100-4	100	475	2000	17	A50QS-600-4	600	41300	206000	108
A50P-125-4	125	800	3500	25	A50QS-700-4	700	55000	298000	120
A50P-150-4	150	1100	4600	30	A50QS-800-4	800	76200	409000	129
A50P-175-4	175	1450	6200	35	A50QS-1000-4	1000	92000	450000	145
A50P-200-4	200	1900	8500	40	A50QS-1200-4	1200	122000	600000	180

A70QS 700V Electrical Characteristics

Part Number	Rated Current RMS-Amps	I ² t (A ² SEC)		Watts Loss	Part Number	Rated Current RMS-Amps	I ² t (A ² SEC)		Watts Loss
		Pre-Arc	Clearing at 700V				Pre-Arc	Clearing at 250V	
A70Q-5B	5	1.6	10	1.5	A70QS-175-4K	175	4200	16700	35
A70Q-10B	10	3.6	20	4	A70QS-200-4K	200	5500	22000	43
A70Q-15B	15	10	75	5.5	A70QS-225-4	225	7700	31300	45
A70Q-20B	20	26	180	6	A70QS-250-4	250	10500	42500	48
A70Q-25B	25	44	340	7	A70QS-300-4	300	17600	71200	58
A70Q-30B	30	58	450	9	A70QS-350-4	350	23700	95600	65
A70Q-35B	35	34	160	12	A70QS-400-4	400	31000	125000	78
A70Q-40B	40	76	320	12	A70QS-450-4K	450	36400	137000	94
A70Q-50B	50	135	600	12	A70QS-500-4K	500	45200	170000	107
A70Q-60B	60	210	950	15.5	A70QS-600-4K	600	66700	250000	122
A70Q-70B	70	305	1400	18	A70QS-700-4K	700	54000	300000	125
A70Q-80B	80	360	1600	21	A70QS-800-4K	800	78000	450000	140
A70Q-90B	90	415	1900	25	A70QS-900-4K	900	91500	530000	150
A70Q-100B	100	540	2500	27	A70QS-1000-4K	1000	120000	600000	170
A70QS-125A	125	1800	7300	28	A70QS-1200-4K	1200	195000	1100000	190
A70QS-150A	150	2900	11700	32					

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GAL REPLACEMENT PARTS & COMPONENTS

In this Section

GAL Door Operator
Replacement Parts..... 9.2-3



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cross reference data base,
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GAL Door Operator Replacement Parts

Part Number	Description
CL5-0001R	Closer, SS 22-27 DO & CP 24-55 DO Spring
CL5-0013R	Closer, 2S 41-44 DO & 2CP 83-90 DO Spring
CL5-0051N	Spring Rod & Yoke Assembly
CL6-0001N	Closer, Reel Assembly
CLU1-0036N	Roller, 1 ³ / ₁₆ " dia. LW Clutch
CLU1-0037N	Roller, 1 ³ / ₁₆ " Type "L & L-LOW" Clutch
CLU1-0038N	Cam, Clutch Actuating
CLU3-0260L	LOCKING ASSEMBLY LH LWZ-1 CLUTCH
CLU3-0260R	LOCKING ASSEMBLY LH LWZ-1 CLUTCH
CLU3-0267R	Locking Assembly, LWZ-1 Clutch
CLU3-0331L	CAM, LWZ-1 STANDARD LOCKING ASSEMBLY
CLU3-0331R	CAM, LWZ-1 STANDARD LOCKING ASSEMBLY
CLU9-0002L	Clutch, LWZ-2 6" Link
CLU9-0004R	CLUTCH LWZ-2, 12" LINK
CLU9-0014R	Clutch, LWZ-2-Low 6" Link SS 30-34 DO/2SP 27-34 DO/3SP 35-39 DO
CLU9-0115L	LOCKING ASSEMBLY, LWZ-2 CLUTCH
CLU9-0115R	LOCKING ASSEMBLY, LWZ-2 CLUTCH
CLU9-0047L	CAM, LWZ-2 CALIFORNIA LOCKING Includes Hardware
CLU9-0049L	CAM, LWZ-2 STANDARD LOCKING
CLU9-0049R	CAM, LWZ-2 STANDARD LOCKING
EMER-0001N	Emergency Light/EL4 Unit with Socket LTS
EMER-0034N	EMERGENCY LITE/ EL4 UNIT
HH1-0024N	Eccentric, "A" Sheave
HH1-0025N	Roller Kit, 3 ¹ / ₄ " dia. "A"
HH1-0026N	Oiler/Cleaner, 3 ¹ / ₄ " dia. "A"
HH1-0027N	SHIM, 1/32" A" SHEAVE 3/8
HH1-0031N	SHIM, 1/8" A" SHEAVE 3/8
HH1-0032N	Spacer, 1/8" Track
HH1-0112N	Retainer, Type "A" Hanger Top Safety
HH3-0051N	Hanger, A-CP Nylon Pulley 36-38 DO Hatch
HH3-0053N	Hanger, A-CP Nylon Pulley 42-44 DO Hatch
HH5-0029N	Oiler, Type "C" Hanger 3 ¹ / ₄ " Roller
HWBL-0001N	BELT, 2400 OPERATOR "V"
HWBR-0008N	Bearing Kit, 7/8 Shoulder
HWBR-0009N	Bearing Kit, 7/8 with Retainer
HWBS-0002N	Bushing/Nyliner 5/8 ID Type 4
HWBS-0003N	Bushing/Nyliner 7/8 ID
INT18-0015N	Contact, WP/WX Interlock Bridging
INT1H-0002L	Interlock, MOH B Link
INT1H-0002R	Interlock, MOH B Link
INT1H-0003R	Interlock, MOH C Link
INT1H-0013R	SWITCH ASSEMBLY, MO INTERLOCK
INT1H-0016L	Keeper Assembly, MO Interlock
INT1H-0016R	Keeper Assembly, MO Interlock

**If you can't find the part
you are looking for
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We are adding new parts
to our inventory
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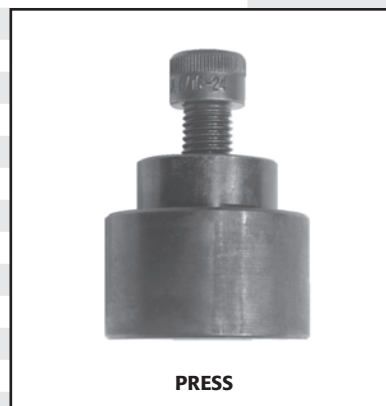
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GAL Door Operator Replacement Parts

Part Number	Description
INT1H-0017N	Contact, MO Keeper Bridging
INT1H-0022L	Release Assembly, MOH B Link
INT1H-0022R	Release Assembly, MOH B Link
INT1H-0023N	Roller & Shaft, MO Interlock
INT1H-0036L	Contact Kit, MO/MOCP-KT
INT1H-0036R	Contact Kit, MO
INT1H-0136L	RELEASE ASSEMBLY, MOH C LINK Horizontal Release
INT1H-0136R	Release Assembly, MOH C Link Horizontal Release
INT22-0011L	SWITCH ASSEMBLY "N" INTERLOCK
INT22-0011R	SWITCH ASSEMBLY "N" INTERLOCK
INT22-0015N	COVER "N" INTERLOCK
INT22-0019N	CONTACT KIT N/NHA INTERLOCK
INT22-0020N	CONTACT KIT "N" INTERLOCK
INT2H-0001N	Interlock, MOCPH A Link
INT2H-0002N	Interlock, MOCPH B Link
INT2H-0052N	Bracket, MOCP/MOH Keeper Mounting
INT2H-0015N	KEEPER FIXED, MOCP INTERLOCK
INT2H-0017R	MOCP-KT-R INTERLOCK CONTACT KIT
INT2H-0053N	Channel, 2 ³ / ₁₆ " MOCP/MOH Lock Mounting
INT5-0014N	Contact Kit, M Interlock Upper
INT5-0015N	Contact Kit, M Interlock Lower
KEY-0069N	Key, GAL "1613" Code
MTR-0008N	Motor 1/8 HP 230VDC PM (2 wires)
MTR-0009N	Motor, 1/4 HP 230VDC
OP10-0006N	Contact Screw, Operator Limit
OP10-0032N	STOP, OPERATOR PULLEY
OP10-0058L	Microswitch Kit, FM-MODL Operator
OP10-0058R	Microswitch Kit, FM-MODL Operator
OP22-0741N	CRANK ARM ASSEMBLY 17-7/16
PB1-0021N	Push Button, RWB "Blank" 2NO-120V Neon
PB1-0025N	Push Button, RWB "Arrow" 2NO-120V
PB2-0373N	Base Assembly, VP 2NO Push Button
PIN-0044N	Pin, 5/32" x 5/8" Black Nylon
PIN-0045N	Pin, 1/8" x 5/8" Clear Nylon
RES-0099N	RESISTOR, 300 OHM 100W
ROL-0006N	Roller, Gate Switch 1 1/4" OD
SPG-0046N	Spring, 18 1/2" LG x 2 1/2" OD-0.105 Wire
SW1-0001N	Switch Assembly, Gate
SW1-0003N	Contact Kit, G-KT Gate Switch
SW1-0005N	ROLLER & ARM, GATE SWITCH, USED W/ MODG OPERATORS
SW1-0044N	Switch Assembly, Operator Gate
PRESS	Door arm bearing removal & installation press



MTR-0008N



PRESS

Door arm bearing removal and installation press

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GENERAL PURPOSE



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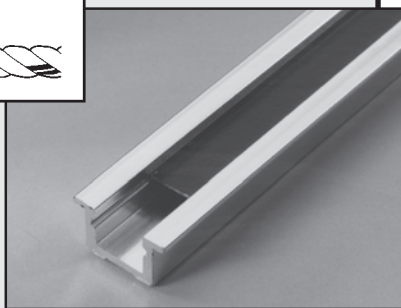
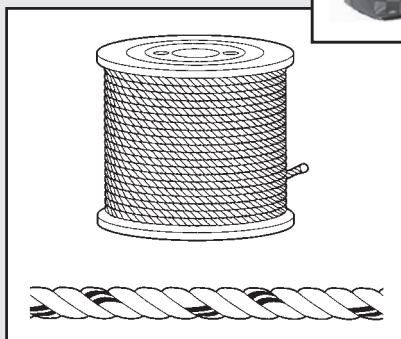
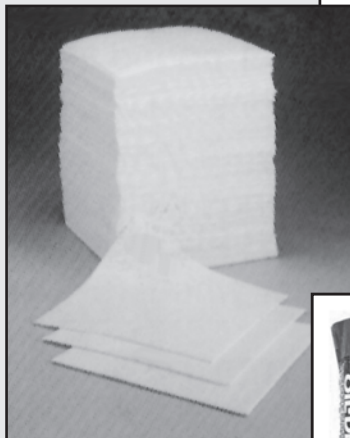
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Orange Sticks , Oil Clean-up Rope, Splines, Astragal

Orange Sticks

Non-conductive, 10 per pack

Part Number **MOS**

Pit Pads

For oil clean-up. Absorb oil, not water. Clean easier and more efficiently than granular type cleaners.

Absorb 25 times their own weight. Box of 100, 12oz, 17"x 3 7/8" polypropylene pads.

Part Number **L90902**

Oil-Dri® Quick-Sorb®

Super-absorbent granules for fast oil clean-up.

Part Number	Description
I05000G60	20lb. Pail
I08030G78	10lb. Bag
I08060G84	25lb. Bag

Polypropylene General Purpose Rope

Ranging in diameter and length anywhere from 5/8" x 600ft. to 3/4" x 1200ft. this highly visible bright yellow with green runner is excellent for roping off areas on construction sites. It's weather, rot and mildew resistant, so it is perfect for those unpredictable changes. All ropes are reel mounted.

Part Number	Diameter x Length	Capacity
31853	5/8" x 600ft.	5580lb.
31854	5/8" x 1200ft.	5580lb.
31855	3/4" x 300ft.	7650lb.
31856	3/4" x 600ft.	7650lb.
31857	3/4" x 1200ft.	7650lb.

Aluminum Wall Panel Splines

For mounting reversible and/or replaceable wall panels on car interior walls. Splines include a black plastic laminate insert strip.

Part Number	Description
ASC	Chrome Finish
ASB	Bronze Finish

Door Astragal and Holder

Compatible with part number A132 (astragal rubber). Door Astragal is included. 7' lengths.

Part Number	Description
DAA	Aluminum
DAAB	Anodized Bronze
A132-DAA	Replacement astragal for DAA holder

Other sizes available.

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Door Spirators Door Gibs

Eliminate elevator door reel replacement problems with our spring-powered spirator. Pre-winding the reel upon installation allows universal replacement. Spring is made of high-carbon steel, the cable of 7x7 nylon coated galvanized steel with a crimped loop as opposed to eyelet. Each case is steel and the arbors Delrin. Replaces Dover, Houghton, Montgomery, G.A.L., Otis, U.S. Westinghouse and Armor Spirators.

Part Number	Arbor (Mounting)	Distribution Thru Hub	Cable Length (in.)	Load Curve Total Turns
ML-4402	5/16" Clear Square Hole	1	120	13
ML-4402W	2 Hole (Westinghouse)	1	120	13
ML-1880	.325 Square Hole		144	

Part Number **ML-1880:**

Specifically for heavy-duty requirements. Grey 6"-diameter steel reel with retracting cable pull 2.6 +2 lbs. one turn from solid, 144" cable, 1/16" diameter coated with nylon to .093 diameter.

Door Spirator Mounting Bracket

Part Number **MLB:**

Square stud mounting bracket for use with ML-4402. Specifications subject to change without notice.

Door Gibs

Part Number **DGC:**

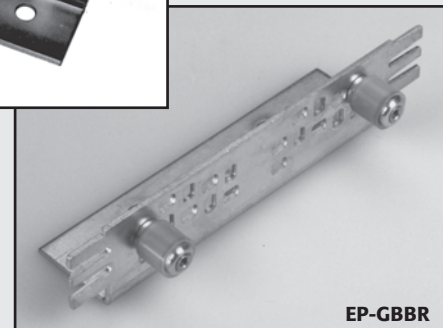
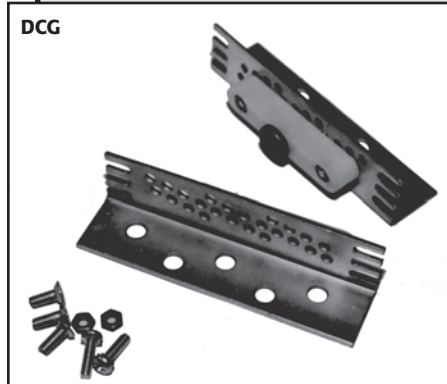
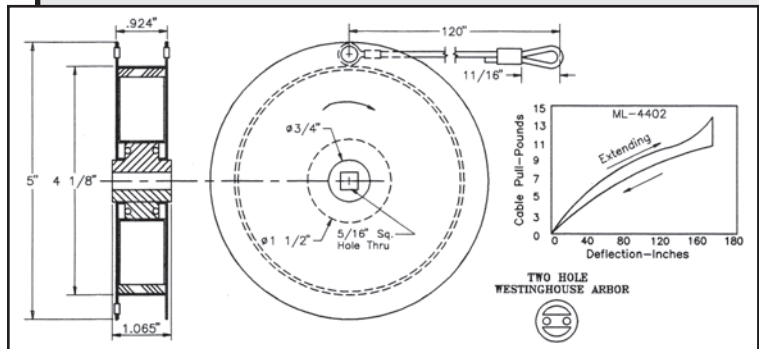
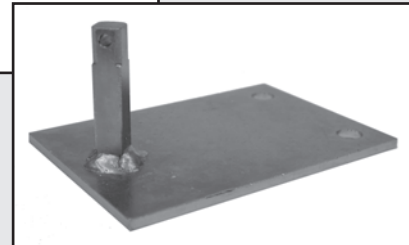
- Includes mounting bracket
- 1/2" nylon gib with multiple mounting positions
- 4 1/2" long, 1" up-leg, 7/8" down-leg

Part Number **DGCN:** (Same as above with up-thrust retainer)

Part Number	Chassis Width	Adjustments	Description
G1532-118	1 1/8"	10	15/32" wide white nylon gib
G1532-114	1 1/4"	12	15/32" wide white nylon gib
G1732-118	1 1/8"	10	17/32" wide green nylon gib
G1732-114	1 1/4"	12	17/32" wide green nylon gib
G12-118	1 1/8"	10	1/2" wide blue nylon gib
G12-114	1 1/4"	12	1/2" wide blue nylon gib
G716-118	1 1/8"	10	7/16" wide black nylon gib
G716-114	1 1/4"	12	7/16" wide black nylon gib

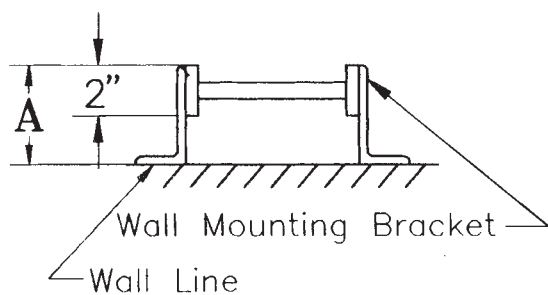
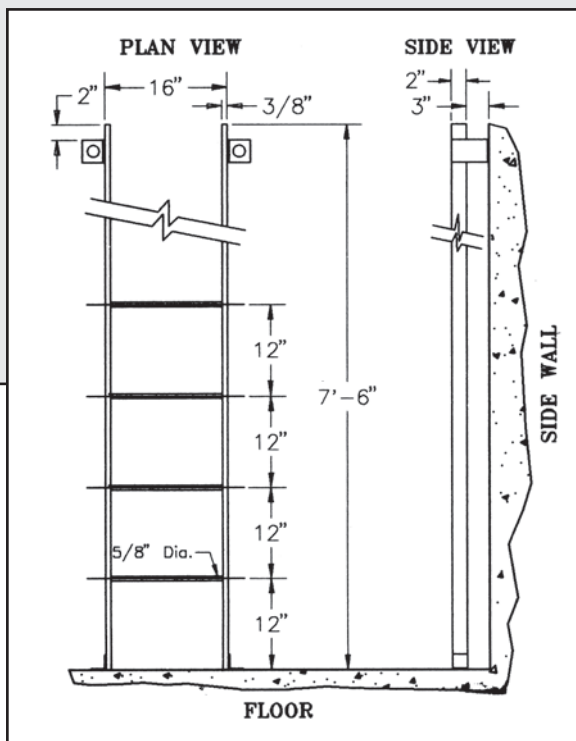
Part Number **EP-GBBR:**

Roller bearing door gib for extended door operation life. Eliminates door side play. Specify chassis width when ordering: 7/8", 1", 1 1/8", or 1 1/4"



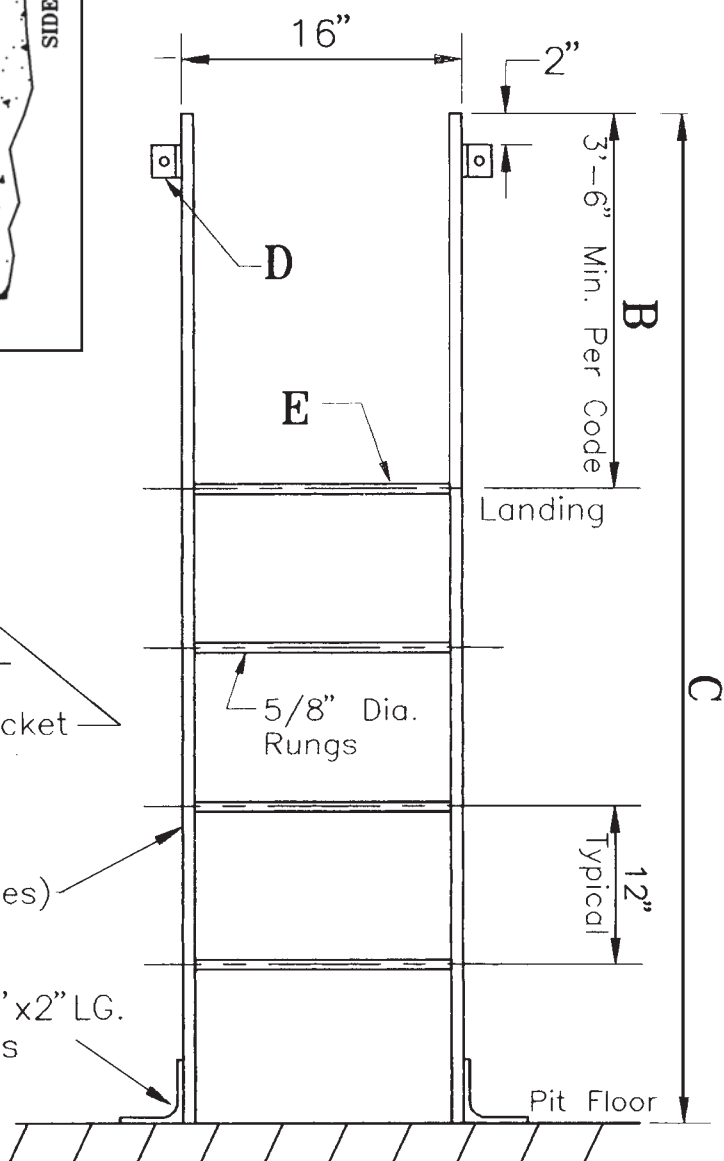
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3/8"x2" Flat Bar (Sides)

H.R. Angle 2"x2"x3/16"x2" LG.
Floor Mounting Brackets
(2 Required)



Custom Ladder Worksheet

Information Needed:

A. Distance from wall to face of ladder:

B. Distance from landing to top of ladder:

C. Overall ladder length required:

D. Quantity of wall mounting brackets:

E. Quantity of rungs:

Questions? Answers at...

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Pit Ladders & Stepladders

Pit Ladders

Part Number **PL8:**

- Sides $\frac{3}{8}$ " x 2" flat bar, total length 7' 6"
- $\frac{5}{8}$ " rungs
- Top brackets bolted for flexibility in field

Part Number **PL8C:**

- Collapsible Pit Ladder, 7' 6" long
- Folds in half for UPS shipping
- Center brackets at point of pivot provides rigidity when installed

Custom Pit Ladders

Custom ladders are available for quick shipment. To order, please see the Custom Ladder Worksheet on the previous page.



PL8C



PL8

Stepladders

These top-of-the-line heavyweight stepladders are made for heavy work in wood, fiberglass or aluminum. The protective rail shields and stronger side rails reduce the risk of cracking, so they're safer to use. A center pull spreader not only adds additional support, but makes setting-up and taking down much easier. The top caps are extra tough so they can withstand impacts and severe temperature changes without cracking.



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Material Hooks, Pull Straps Inspection Mirrors, Pickup Tools

Material Hooks

Put a handle on your guide rails with less pain, less strain. Hooks are either parallel or at right angle to the handle, 12" or 36" long overall.

Part Numbers **11-403** and **11-404**

Heavy Duty Door Pull Straps

Our 12,000lb. test heavy-duty door pull straps are made of durable black nylon. A mounting bracket is sewn into one end for attachment.

Part Number	Length	Part Number	Length
HDP18	18"	HDP24	24"
HDP30	30"	HDP36	36"
HDP48	48"		

Fender Washer

We recommend pull straps be clamped under this $\frac{3}{8}$ " fender washer.

Part Number **FW38**

Inspection Mirror

For fast, accurate inspection of hidden areas. Double ball joint allows $1\frac{1}{4}$ " round mirror to swivel to any angle. Has a magnet for retrieving nuts and bolts, and pocket clip to fit easily in pocket. $7\frac{1}{2}$ " length telescopes to $19\frac{7}{8}$ ".

Part Number **IMPT**

Pick-up Tool

Retrieves most small items of any material up to 2lbs. $23\frac{1}{2}$ " flexible shaft bends and snakes into hard to reach areas. Spring steel claws open wide. Sturdy tempered spring steel shaft. Press plunger to open jaws

Part Number **CPUT**

Pick-up Tool, Ferrous Metal

Retrieves ferrous metal parts, up to 18oz. Telescopes to $26\frac{3}{4}$ ".

Part Number **PUT**

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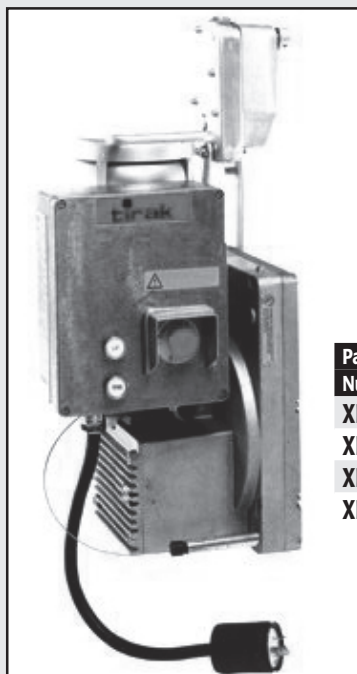
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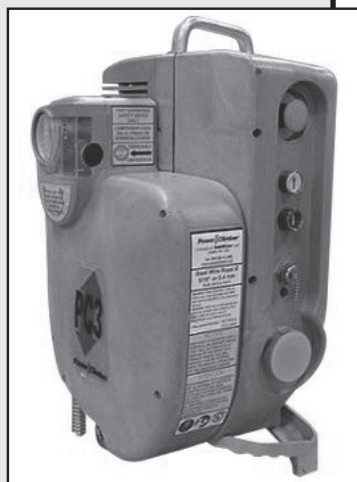
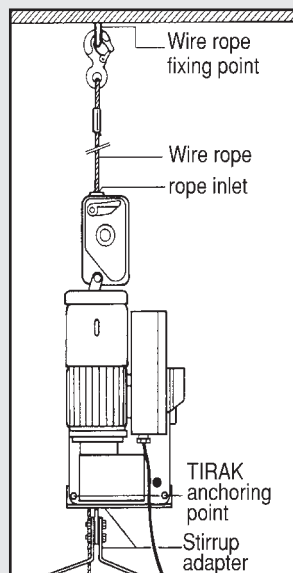
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Part Number	Rated Load	Lifting Speed	Weight	Voltage	Phase	Amps	Breaking Diam.	Strength
XE301P	700	35	77	110	1	10.5	5/16"	10,000lbs.
XE501P	1000	35	121	110/220	1	19.5/9.5	5/16"	10,000lbs.
XE701P	1500	35	123	220	1	12	5/16"	10,000lbs.
XE1020P	2200	35	123	220	3	18	5/16"	15,000lbs.



Part Number	Motor (hp/psi)	Capacity (lbs.)	Draw (amp)	Speed (ft./min.)	Weight (lbs.)	Dimensions (in. HxWxD)
PC3-1500E	208VAC, 60Hz, single phase	1500	9	35	101	23.5x14x12.75
PC3-1500E3	208VAC, 60Hz, 3 phase	1500	8	35	100	23.5x14x12.75
PC3-1000-110	110VAC, 60Hz, single phase	1000	14	>15	99	23.5x14x12.75

Wire Rope Climbers

Tirak Wire Rope Climber

1500 Lb Load Rating, 220v, 1 Phase

The Tirak motorized X- series hoist, safely lifts and lowers false cars, work cages and other man-riding equipment at a speed of 35 FPM. This compact, lightweight model weighs only 126 pounds and requires minimum maintenance. The travel height is limited only to the length of the wire rope and power cord.

Powerclimber® Hoist

Power Climber is a world leader in the manufacture of high quality wire rope climbers. The PC3 hoist series is an excellent product to use for powering False Cars, Go-Devils, Skip Hoists, etc. Power Climber offers the most advanced, reliable, affordable and easiest to use wire rope climber on the market.

- 1500 lbs. at 35 FPM
- 50% duty cycle
- Operates on 170-229 volt
- 8 amp, single-phase power, eliminating delays due to low current job site conditions
- Electrical components on one motherboard! Change the motherboard out to solve an electrical issue in less than 5 minutes.
- Works with just about any 5/16" wire rope
- Two carrying handles, one used to stand unit on the table for service
- Hour meter records running hours for better maintenance interval planning
- Built-in over speed device for use with second rope
- Nearly impossible to jam wire rope
- Low voltage indicator indicates proper voltage to unit, blinks at marginal voltage and goes out at voltage outside rated range
- Made in the U.S.A.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Power Hoists

Electric Capstan Power Hoist System

A most versatile, powerful, time saving tool. Can be used for hoisting rails and brackets, driving chain falls, pulling wire through conduit and a myriad of other chores. This lightweight power worker mounts just about anywhere, has 1,000 lb. capacity and runs on 120 volt single phase current. Hoist assembly comes complete with foot switch, angle mounting bracket, rail blocks and rope locking device. Items may be purchased separately.

Part Number **C417-6014**

120V Hoist Assembly includes:

#**C308-1170** (Capstan Hoist with Foot Control)

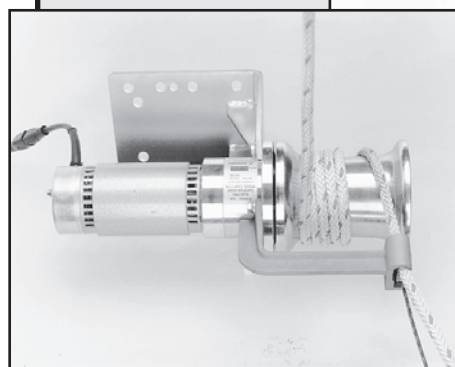
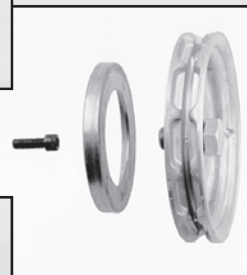
#**C417-6015** (Bracket)

#**C417-6016** (Rail Blocks)

#**C308-0856** (Rope Lock Device)

#**C308-0873** (Chain Puller Kit—optional)

Service and parts available.

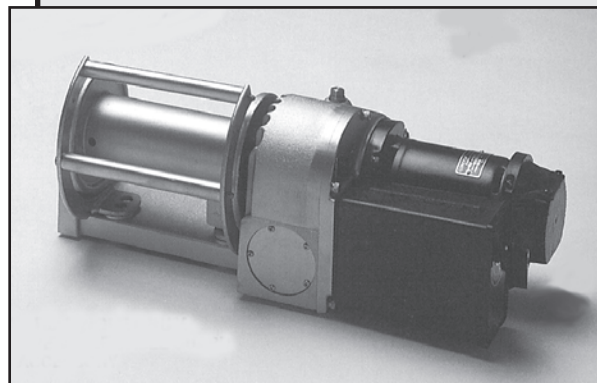


Power Winch

Lift 1200 pounds in a tight machine room! This small (approximately 21"x8"x8"), lightweight (40 lbs.), powerful (400 to 1200 lbs. pull), high quality winch and accessories are a must for your tool inventory. They are ideally suited for service work such as hoisting controllers, motors, gearcases, etc. to and from machine rooms. Call for a brochure or quotation.

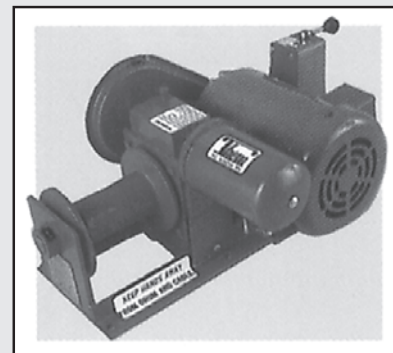
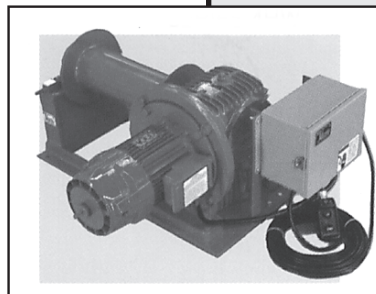
Series	Voltage	Switch	Model
1200	115	MO	12-15 RMO
1200	115	MA	12-15 RMA
1200	230	MO	12-30 RMO

Other sizes are available.



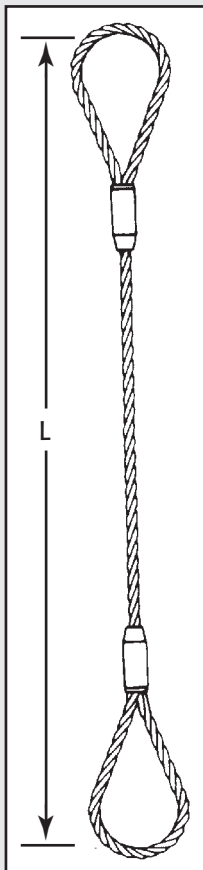
Hoisting Equipment

Full line of hoisting equipment to meet any job requirements. Winches, cranes, hoists, manual or power assisted and associated equipment. Please call for quote.



Questions? Answers at...

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Wire Rope Sling & Twisted Rope

Wire Rope Sling

These general purpose slings are made from 6 x 19 type, X.I.P., IWRC Cable. This type of sling is great for general material handling. The slings come with an eye on each end made with a mechanical fastener. Capacity used in a vertical lift is as follows: $\frac{3}{8}$ " : 2,200lbs., $\frac{1}{2}$ " : 4,000lbs., $\frac{5}{8}$ " : 6,200lbs.

Part Number	Width/Length	Capacity
ALT 124	$\frac{1}{2}$ " x 4'	4,000 lbs.
ALT 126	$\frac{1}{2}$ " x 6'	4,000 lbs.
ALT 128	$\frac{1}{2}$ " x 8'	4,000 lbs.
ALT 1210	$\frac{1}{2}$ " x 10'	4,000 lbs.
ALT 1212	$\frac{1}{2}$ " x 12'	4,000 lbs.
ALT 382	$\frac{3}{8}$ " x 2'	2,200 lbs.
ALT 383	$\frac{3}{8}$ " x 3'	2,200 lbs.
ALT 384	$\frac{3}{8}$ " x 4'	2,200 lbs.
ALT 386	$\frac{3}{8}$ " x 6'	2,200 lbs.
ALT 3810	$\frac{3}{8}$ " x 10'	2,200 lbs.
ALT 3812	$\frac{3}{8}$ " x 12'	2,200 lbs.
ALT 583	$\frac{5}{8}$ " x 3'	6,200 lbs.
ALT 586	$\frac{5}{8}$ " x 6'	6,200 lbs.
ALT 588	$\frac{5}{8}$ " x 8'	6,200 lbs.
ALT 5812	$\frac{5}{8}$ " x 12'	6,200 lbs.

Twisted Rope

Our standard grade of $\frac{3}{4}$ -inch 3-strand manila rope, 600' long, knots well and is easy to handle. Be sure to consult recommended work load specifications to insure the proper size is used for the specific job. Many other sizes, types, and lengths of rope available upon request.

Part Number **17-150**

Questions? Answers at...

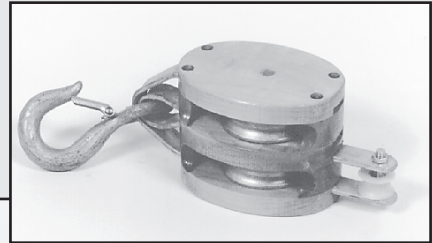
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Tackle Blocks, Rope Blocks & Clamps

Wood Tackle Blocks

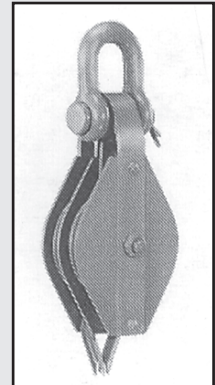
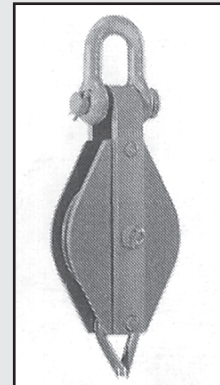
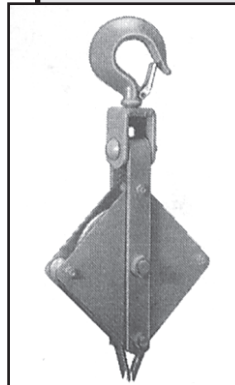
We stock a variety of single and double blocks. These are regular wood tackle blocks with 3½" galvanized sheaves and metal components for use with ¾" manila rope. Fitted with swivel hook and safety latch. Other configurations available upon request. Wood Tackle Blocks are available with roller or self lubricating bronze bushings.

Part Number	Description
17-111	Single
17-112	Double



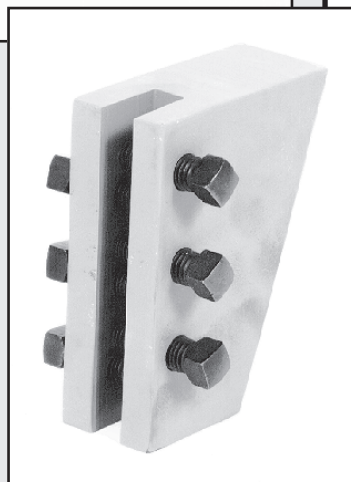
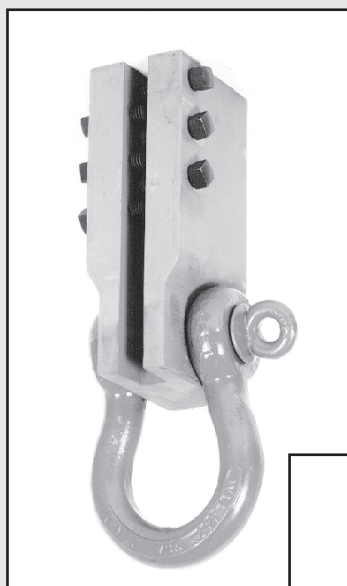
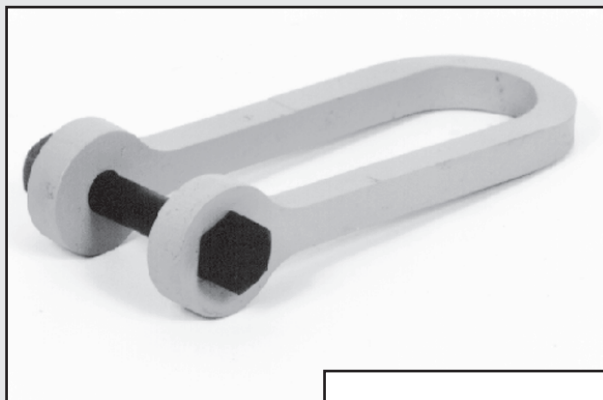
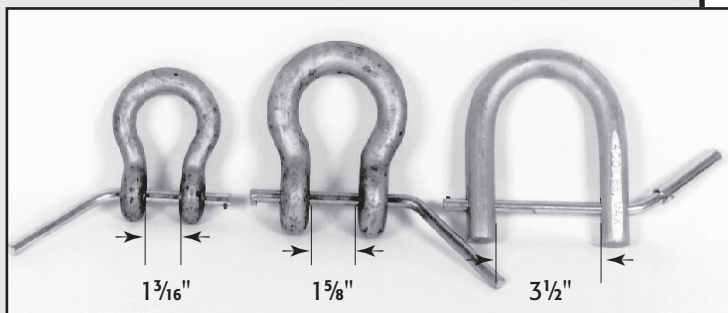
Wire Rope Blocks

Our Wire Rope Blocks are furnished with 8"-diameter painted steel sheaves and self-lub bronze bushings. Fitted with swivel hook and safety latch. We also carry a variety of other designs to fit your needs. Call for sizes and prices.



Questions? Answers at...

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Clevises Chain & Anchor Shackles

Quick Release Clevis

Used for the quick hookup of components in preparation for hoisting. Fits all rail sizes up to and including the 30lb./ft. jumbo (maximum capacity 3500lbs). The #11-260 quick-release clevis has a 3½-inch-wide throat, which allows for hoisting of full section modules fishplate (i.e. seismic/ earthquake) guide rail systems. Can also be used for hoisting many other pieces of equipment.

Part Number	Width	Capacity
11-200	1 3/16"	3500 lbs.
11-250	1 5/8"	2500 lbs.
11-260	3 1/2"	400 lbs.

Crosshead Clevis

Whenever you have a need to hang the car or counterweight. Rated at 4 tons, it eliminates the need for wire rope slings, etc. Simply unbolt, place around crosshead channel, install and tighten bolt. Attach hook from chain fall or any other hoisting means. Saves time and improves safety.

Part Number 11-270

Rail Block/Clevis

Use to hoist your car or counterweight frame at any location in the hoistway.

Part Number	Description
11-180	5/8" Rail Block
11-181	3/4" Rail Block
11-190	5/8" Rail Block/Clevis
11-191	3/4" Rail Block/Clevis

Chain & Anchor Shackles with Screw Pin

The Chain & Anchor Shackles available with screw pins are forged, quenched and tempered. Alloy pins make for safe use.

Anchor Shackle Part Number	Chain Shackle Part Number	Working Load Limit (Tons)
16-030	16-040	2
16-031	16-041	3 1/4
16-032	16-042	5
16-033	16-043	6 1/2
16-034	16-044	8 1/2
16-035	16-045	9 1/2
16-036	16-046	12
16-037	16-047	14
16-038	16-048	17
16-039	16-049	20

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Clevises & Rail Clamps

Rail Hoisting Clevises

A one piece lever action automatically latches rails in place with no nuts or bolts to drop.

Part Number	Description
RHC716	7/16" diameter pin
RHC508	5/8" diameter pin
RHC716S	7/16" diameter pin

Rail Clamps

Repack hydraulic elevators or recable traction elevators with our quality Rail Clamps.* By using two complete sets to hang counterweights and car, you can recable cars at midpoint of hoistway. For use on 8, 12, and 15lb. rails.

Part Number	Description	Anchor Bolt Torque (ft/lb)	Maximum Load (lb.)*
RCB	Bottom clamp	50	20,200
		70	39,000
RCT	Top clamp	50	22,600
		70	36,800

RCS Set of 2 top and bottom clamps

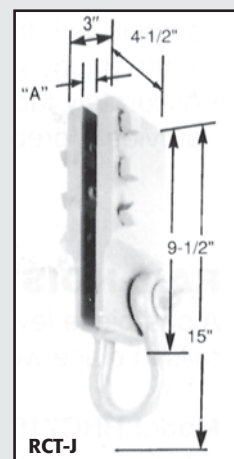
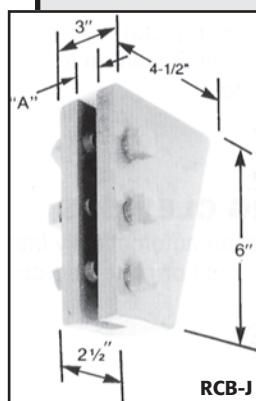
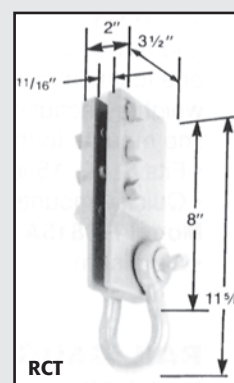
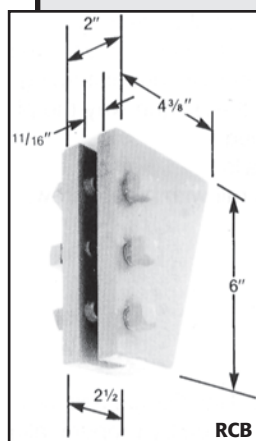
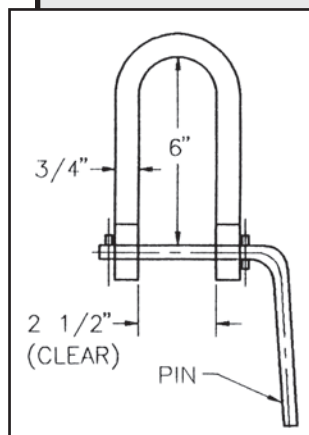
*NOTE: Load distribution should be equal on all 4 clamps. Independent Testing Laboratory Rail Clamp Test Results. Complete copy available upon request.

Jumbo Rail Clamps

For use with larger rails. Specify rail weight when ordering.

Part Number	Rail Weight	"A"	Description
18.5RCB-J	18.5 lb.	25/32"	Bottom
18.5RCT-J	18.5 lb.	25/32"	Top
18.5RCS-J	18.5 lb.	25/32"	Set
22.5RCB-J	22.5 lb.	1 5/32"	Bottom
22.5RCT-J	22.5 lb.	1 5/32"	Top
22.5RCS-J	22.5 lb.	1 5/32"	Set
30RCB-J	30.0 lb.	1 9/32"	Bottom
30RCT-J	30.0 lb.	1 9/32"	Top
30RCS-J	30.0 lb.	1 9/32"	Set

Set = 2 Top and 2 Bottom Clamps



Questions? Answers at...

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HYDRAULIC INSTALLATION TOOLS



Questions? Answers at...

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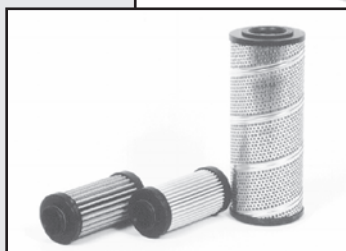
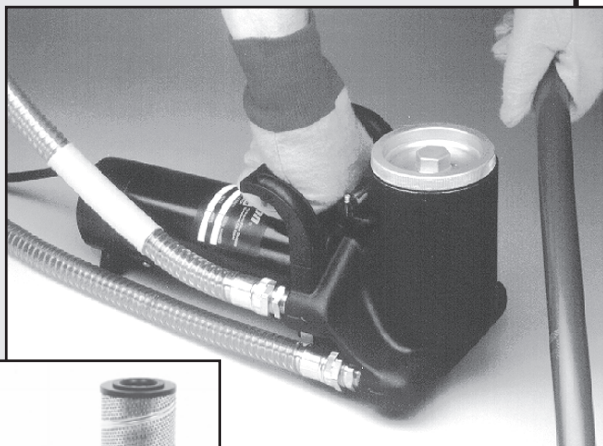
Eastern US: 1-866-253-2915
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for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

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Filtration Systems

Hydro Machine

Portable Filtration System

This lightweight, powerful, filtration pump works great for filtering and transferring hydraulic fluid. Weighs only 24 lbs. but can be used with a wide range of fluid viscosities at flows up to 4 GPM. Built of rugged cast aluminum, powered by a 1/4 hp, 110 VAC motor, and designed with an internal relief valve, this pump allows only filtered fluid downstream. Filters are available to remove dirt, metal particles and even water.

Part Number
10-420
10-429 plastic carrying case

Portable Filter Cart

This completely self-contained dual filter system is ideal for transferring oil from drum to tank and cleansing the oil in existing systems. The two-stage system is ready to use on 110 volt service. Filter elements for all types of filtering requirements are in stock, including those needed for water removal.

 Part Number **10-400**

Temporary Hydro Machine

Are you required to provide a "running platform" with your hydro and you only have temporary power on a limited basis? Plug this unit into a 230 volt, single phase, 60 Hertz, 20 amp circuit. With a little plumbing to your jack assembly and oil reservoir you are ready to go. Rated at up to 20 GPM at 400 psi Other size units are available. Available with 75ft. pendant. Call for more information.

Part Number Capacity
10-303 3 hp
Questions? Answers at...
Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Halo Light Kit Plumb Bob, Joint Compound

Halo Light Kit

Mechanically centered by the spider assembly, a light with centering disk is lowered the full length of the casing. The "halo" of light appearing around the outer diameter of the centering disk indicates when plumb is achieved. Standard unit accommodates casings up to 12" in diameter. Unit can be adapted to accommodate larger casings by special order. Kit includes: Spider assembly with 75' of line, 10 aluminum disks, battery powered light and carrying case.

Part Number **10-510**



Adjustable Plumb Bob

This solid brass plumb bob with replaceable steel tip, has a spring-loaded, knurled cord spool for easy adjustment of the line length. 20 ft. non-twisting cord is included with plumb bob. A belt sheath is available, along with replacement parts.

Part Number	Description
10-600	Plumb Bob
10-601	Belt Sheath
10-602	Tip, replacement
10-603	Cap, replacement



Pipe Joint Compound

This pipe joint compound expands while it sets, tightly sealing the joint. Comes in powder and contains no lead or asbestos, nor does it emit gases when applied or heated. Can be used on most types of pipe. Do not use on unanodized aluminum. Part Number **MH15735** (1lb. can)



Hydro Spider

The adjustable spider with four spring loaded legs adjusts easily from 3 7/8 to 14 inches in diameter. Great for aligning hydraulic pistons & cylinders because of its wide range of diameter settings. Part Number **10-500**

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KEYS & KEY KEEPERS



Questions? Answers at...

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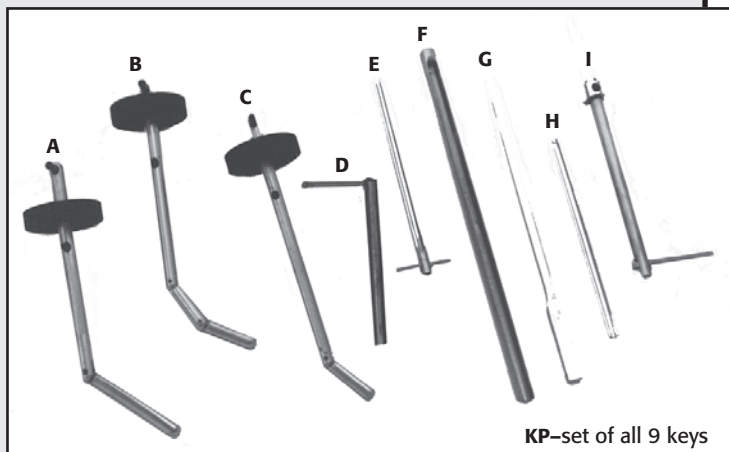
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cross reference data base,
product specifications
with pictures and much more!

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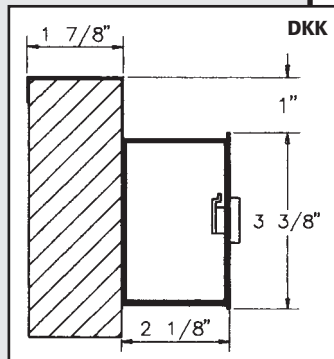
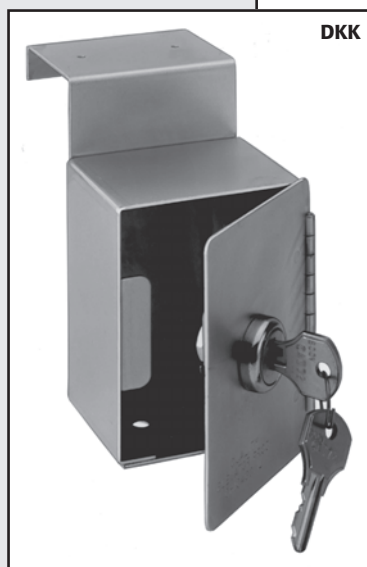
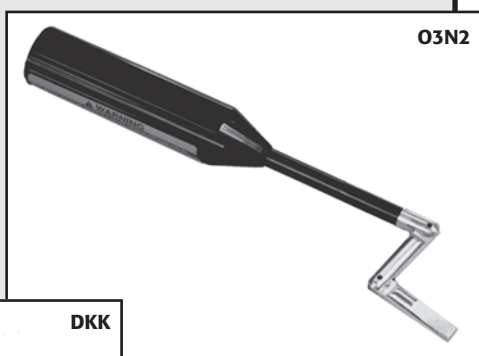
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Replacement Keys	14.3

* Key Switches & Keys available,
See Section 1 (Adams)



KP—set of all 9 keys



Door Keys & Door Key Keepers

Door Keys

All aluminum and steel construction

Key	Part Number	Description
A	O2N	Otis 2 section 5.76"
		Replacement for Otis #194AD3
B	O3N	Otis 3 section 5.76"
		Replacement for Otis #194AD7
C	O2N2	Otis 2 section 7.12"
		Replacement for Otis #194AD4
D	GML	G.A.L. Type M lock
E	OL6	Otis L lock
F	OL10	Otis Lunar 10½"
		Replacement for Otis # 194D2
G	WT9	Westinghouse "T" 9" L
H	WL6	Westinghouse Lunar 6" L
I	GDK	Replacement for G.A.L. #KMO
KP		Set of all 9 of the above keys
O3N2		Otis 3-section key

Door Key Keepers

Part Number **DKK**:

This sturdy 16-gauge welded steel keeper has one common key, eliminating multiple key confusion and deterring theft. Cadmium-plated to prevent rust, its continuous piano hinge is designed so that the pin cannot be removed. We provide registered keying, preventing unauthorized entry. Additional keys are available upon request.

Part Number **DKK-KT**:

This door key keeper mounts around a door handle. The key is housed in a 2¾"l x 1¼"w x 1⅛"h 16-gauge steel box. We provide registered keying, preventing unauthorized entry. Additional keys are available upon request.

Part Number **K01KK**: Replacement Key

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Fire Key Boxes & Replacement Parts

Fire Key Boxes

Red surface mounted and recess flush mount fire key boxes meet local code requirements. Covers are available in brushed stainless and bronze finishes. Equipped with mounting hooks for service and elevator keys. Rust proofed for outside use. Please specify lock number used in your area.

Dimensions: 9"h x 5³/₈"w x 1³/₈"d**

Flush model has a 1" frame.

Stainless Surface Mirror		Stainless Flush Mirror	
FKBC/SM		FKBCF/SM	
Bronze Surface	Bronze Flush	Stainless Surface	Stainless Flush
FKB10404B*	FKB10404BF*	FKB10404*	FKB10404F*
FKB52219B*	FKB52219BF*	FKB52219*	FKB52219F*
FKBCB*	FKBCBF*	FKBC*	FKBCF*

*Key included

**Now available with a 2" deep box.

Add -2 to part number (i.e. FKBC-2).

Replacement Locks

Lock Part Number	For Box Number
L02KB404	FKB10404
L02KB219	FKB52219
L02KB004	FKBC
AKC0071S	Service Cabinet Lock Assembly, Stainless Steel

Replacement Key Boxes

Key Box Part Number	For Box Number
15KB001	FKBC
15KB004	All others

Replacement Keys

Key Part Number	Description
K01KB002	(25460 key)
K01KB001	(52219 key)
AKC0052A	Key for Cabinet Lock Keyed AE102
AKC0054A	Key for Cabinet Lock Keyed WD01
AKC0051	Key for Cabinet Lock Keyed MM101
AKC0053	Key for Cabinet Lock Keyed GG101
AKC0056	Key for Cabinet Lock Keyed H341

Other keys for Fire Department use only are available upon request.



Questions? Answers at...

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LAMPS & LEDS



Questions? Answers at...

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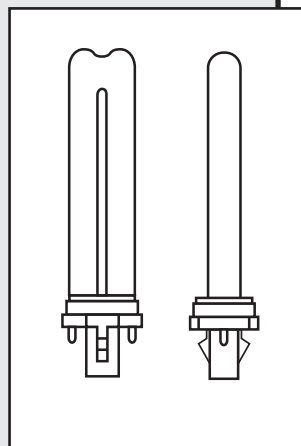
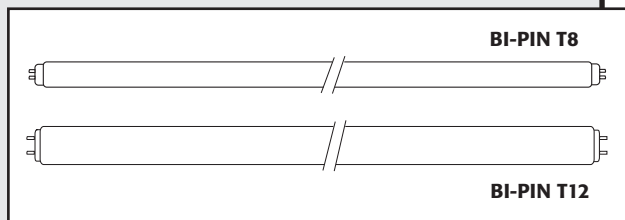
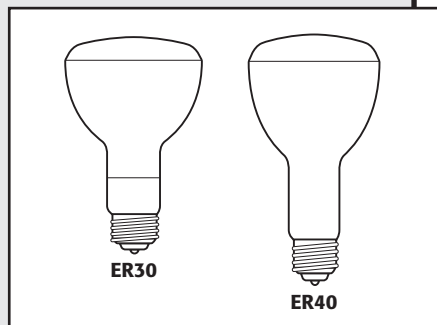
Based LEDs

LEDs for Elevator Floor

& Call Buttons 15.12

Hall Lanterns..... 15.12

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Reflector & Fluorescent Lamps

Elliptical Reflectors

Medium base, 120 and 130 volt.

Part Numbers		
50ER30	75ER30	120ER40

Fluorescents

Available in 2, 3, & 4 foot lengths in cool white, warm white, and various SP, SPX color renditions. Energy efficient available.

Part Numbers		
F17T8CW	F20T12CW	F25T8CW
F30T12CW	F32T8CW	F40CW/RS/WM*
		*Osram# F40CWRS/SS

Compact Fluorescents

Low watt BIAx: Energy efficient compact size, long-life replacements for incandescent lamps. Available in 5, 7, 9, and 13 watts in SPX27.

GE Part Numbers	Osram/Sylvania Part Numbers
F5BX/SPX27	CF5DS/827
F7BX/SPX27	CF7DS/827
F9BX/SPX27	CF9DS/827
F13BX/SPX27	CF13DS/827

Also Available in the following color temperatures:

SPX35	835
SPX41	841
SPX50	850

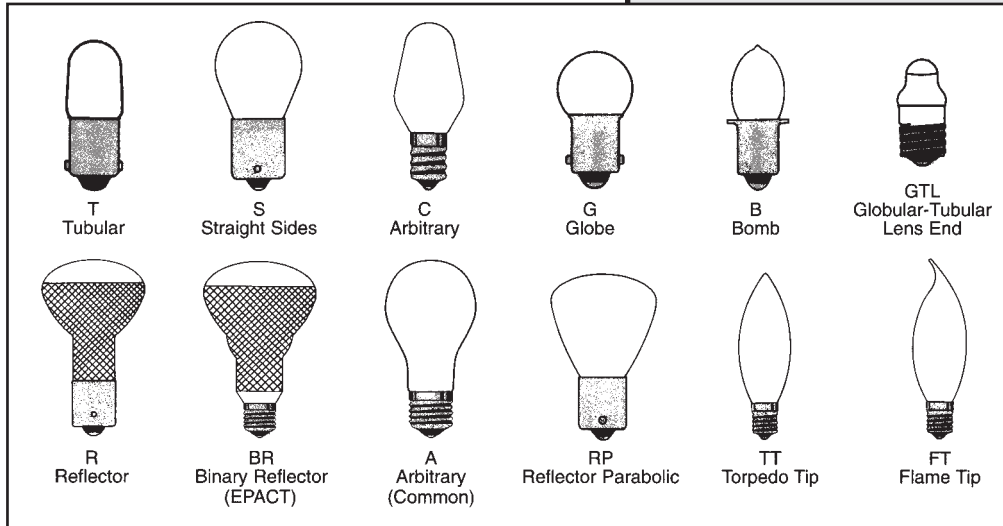
Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Miniature Lamp Glass & Filament Types

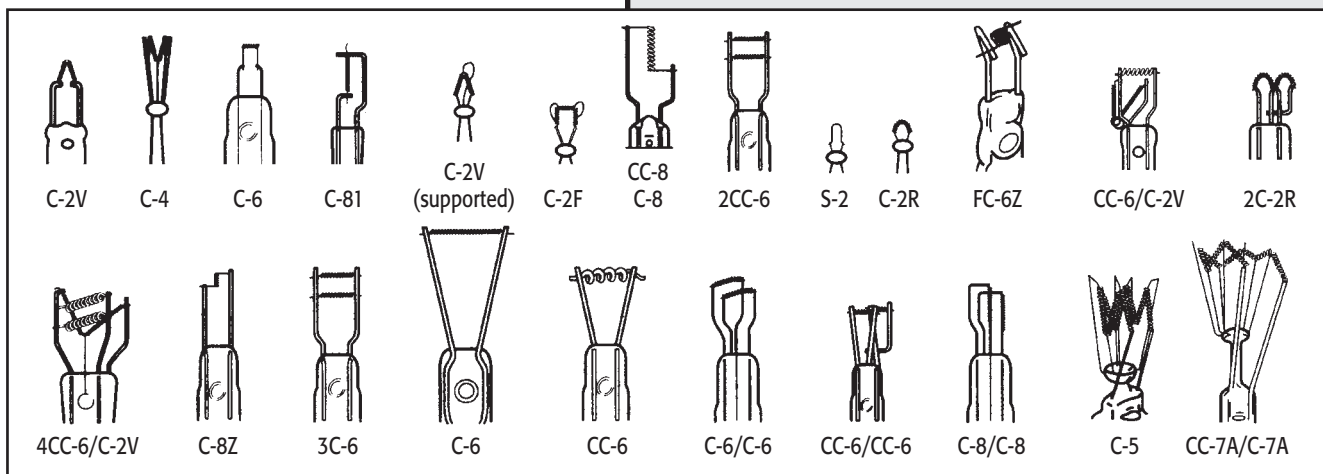
Basic Lamp Shapes

There are twelve basic glass shapes that most lamps made today are classified by. They are denoted by the letters listed below.



Filament Configurations

Filaments for miniature and subminiature lamps may be straight wire, a coil, or a coiled coil (indicated by the letter **S**, **C**, or **CC**, respectively). Coiling the filament wire effectively shortens the filament length so that smaller bulbs can be used. In addition, in gas-filled lamps, coiling the wire reduces thermal loss and increases efficiency. Tungsten is almost universally used as lamp filament material because of its high melting point at incandescence. The number following the coil identification letter(s) denotes the arrangement of the filaments on the supports.



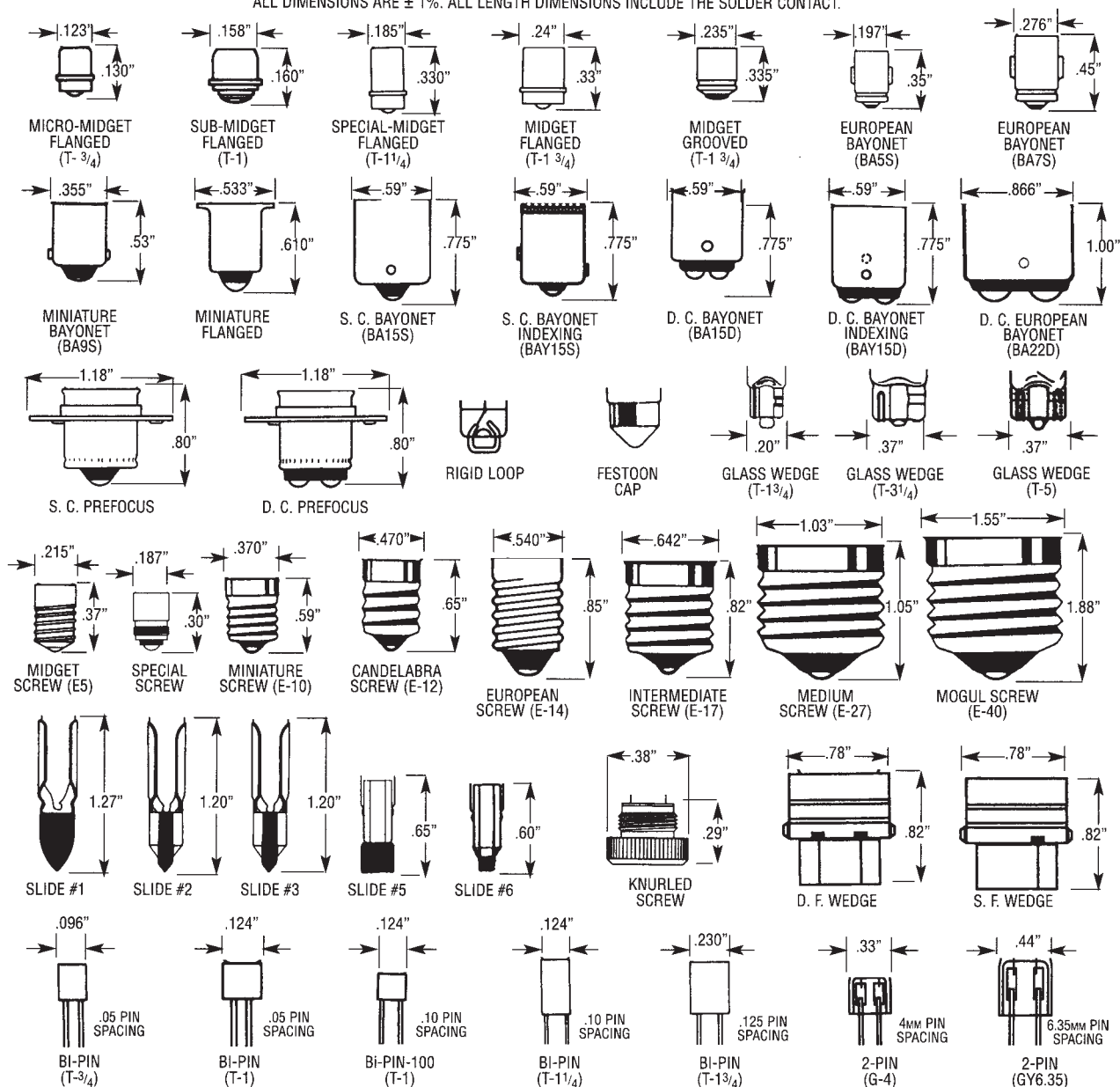
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Minature Lamp Base Types

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types when vibration is present. In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.

ALL DIMENSIONS ARE $\pm 1\%$. ALL LENGTH DIMENSIONS INCLUDE THE SOLDER CONTACT.

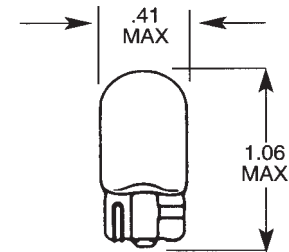


Questions? Answers at...

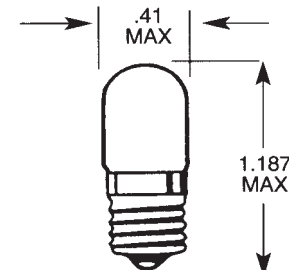
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Miniature Lamps

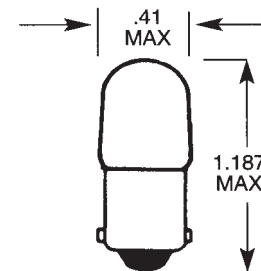
Commercial Number	Volts	Bulb Type	Base	Length (A)	Width (B)
10	2.5	G3.5	Mini 2-Pin	0.94	0.463
12	6.3	G3.5	Mini 2-Pin	0.94	0.463
13	3.7	G3.5	Mini Screw	0.94	0.463
14	2.47	G3.5	Mini Screw	0.94	0.463
15	7	G4.5	Mini 2-Pin	1.06	0.588
19	14.4	G3.5	Mini 2-Pin	0.94	0.463
27	4.9	G4.5	Mini Screw	1.06	0.588
37	14	T1.75	Wedge	0.72	0.23
43	2.5	T3.25	Mini Bay	1.187	0.41
44	6.3	T3.25	Mini Bay	1.187	0.41
46	6.3	T3.25	Mini Screw	1.187	0.41
47	6.3	T3.25	Mini Bay	1.187	0.41
51	7.5	G3.5	Mini Bay	0.94	0.463
53	14.4	G3.5	Mini Bay	0.94	0.463
55	7	G4.5	Mini Bay	1.06	0.588
57	14	G4.5	Mini Bay	1.06	0.588
63	7	G6	SC Bay	1.44	0.75
64	7	G6	DC Bay	1.44	0.75
67	13.5	G6	SC Bay	1.44	0.75
68	13.5	G6	DC Bay	1.44	0.75
70	14	T1.75	Wedge	0.72	0.23
73	14	T1.75	Wedge	0.72	0.23
74	14	T1.75	Wedge	0.72	0.23
81	6.5	G6	SC Bay	1.44	0.75
82	6.5	G6	DC Bay	1.44	0.75
84	6.3	T1.75	Wedge	0.72	0.23
85	28	T1.75	Wedge	0.72	0.23
86	6.3	T1.75	Wedge	0.72	0.23
88	6.8	S8	DC Bay	2.00	1.04
89	13	G6	SC Bay	1.44	0.75
90	13	G6	DC Bay	1.44	0.75
93	12.8	S8	SC Bay	2.00	1.04
94	12.8	S8	DC Bay	2.00	1.04
97	13.5	G6	SC Bay	1.44	0.75
98	13	G6	SC Bay	1.44	0.75
105	12.8	B6	SC Bay	1.75	0.775
147	7	T3.25	Wedge	1.06	0.41
149	6.15	T3.25	Wedge	1.06	0.41
157	5.8	G6	Mini Screw	1.22	0.75
158	14	T3.25	Wedge	1.06	0.41
161	14	T3.25	Wedge	1.06	0.41
168	14	T3.25	Wedge	1.06	0.41
193	14	T3.25	Wedge	1.06	0.41
194	14	T3.25	Wedge	1.06	0.41
198	12.8/14	S8	D.C. Index	2.00	1.04
199	12.8	S8	SC Bay	2.00	1.04



**T-3.25
WEDGE BASE**



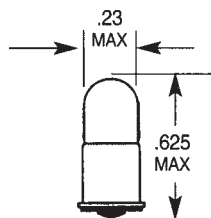
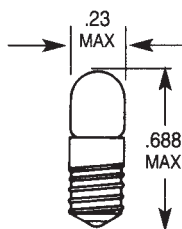
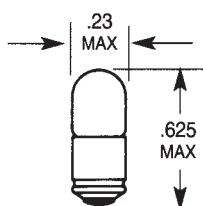
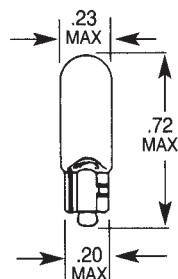
**T-3.25 MINIATURE
SCREW BASE**



**T-3.25 MINIATURE
BAYONET**

Questions? Answers at...

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**T-1.75 MIDGET
FLANGED BASE**

**T-1.75 MIDGET
PLANGED BASE**

**T-1.75 MIDGET
GROOVED BASE**

**T-1.75
WEDGE BASE**

Miniature Lamps

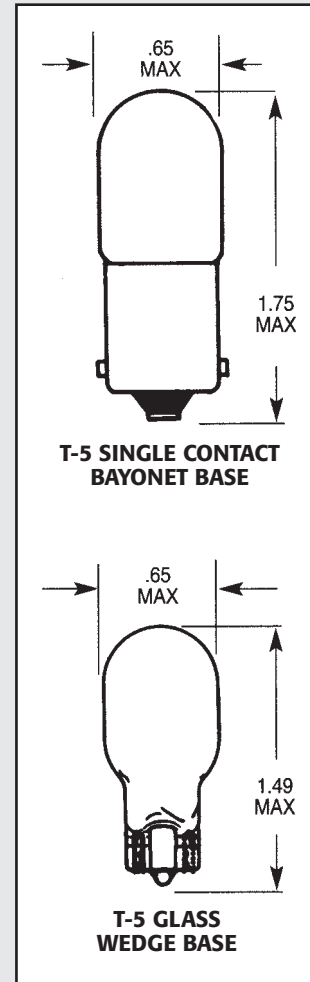
Commercial Number	Volts	Bulb Type	Base	Length (A)	Width (B)
210	6.5	B6	DC Bay	1.75	0.775
238	6.3	T1.75	Mini Bay	1.187	0.41
257	14	G4.5	Mini Bay	1.06	0.588
258	14	G4.5	Mini Screw	1.06	0.588
259	6.3	T3.25	Wedge	1.06	0.41
265	28	G3.5	Mini Bay	0.94	0.463
267	6.3	T3.25	Mini Bay	1.187	0.41
293	14	G4.5	Mini Bay	1.06	0.588
301	28	G5	SC Bay	1.38	0.64
302	28	G5	DC Bay	1.38	0.64
303	28	G6	SC Bay	1.44	0.75
304	28	G6	DC Bay	1.44	0.75
305	28	S8	SC Bay	2.00	1.04
306	28	S8	DC Bay	2.00	1.04
307	28	S8	SC Bay	2.00	1.04
308	28	S8	DC Bay	2.00	1.04
309	28	S11	SC Bay	2.38	1.42
311	28	S11	SC Bay	2.38	1.42
313	28	T3.25	Mini Bay	1.187	0.41
315	28	S8	SC Bay	2.00	1.04
316	6	T3.25	Mini Bay	1.187	0.41
327	28	T1.75	SC Mid Flg	0.625	0.23
328	6	T1.75	SC Mid Flg	0.625	0.23
330	14	T1.75	SC Mid Flg	0.625	0.23
334	28	T1.75	Mdgt Gvd	0.625	0.23
349	6.3	T1.75	SC Mid Flg	0.625	0.23
356	28	G3.5	Mini Bay	0.94	0.463
380	6.3	T1.75	Midget Flanged	0.625	0.23
381	6.3	T1.75	SC Mid Flg	0.625	0.23
382	14	T1.75	SC Mid Flg	0.625	0.23
385	28	T1.75	SC Mid Flg	0.625	0.23
386	14	T1.75	Mdgt Gvd	0.625	0.23
387	28	T1.75	SC Mid Flg	0.625	0.23
388	28	T1.75	Mdgt Gvd	0.625	0.23
400	28	T3.25	Wedge	1.06	0.41
425	5	G4.5	Mini Screw	1.06	0.588
456	28	G4.5	Mini Bay	1.06	0.588
464	28	T3.25	Wedge	1.06	0.41
502	5.1	G4.5	Mini Screw	1.06	0.588
503	5.1	G4.5	Mini Bay	1.06	0.588
509	24	G6	SC Bay	1.44	0.75
509K	24	G6	Cand Screw	1.38	0.75
555	6.3	T3.25	Wedge	1.06	0.41
558	13	T3.25	Wedge	1.06	0.41
561	12.8	T3	Rgd Loop	44mm	11mm
562	13.5	T3	Rgd Loop	44mm	11mm

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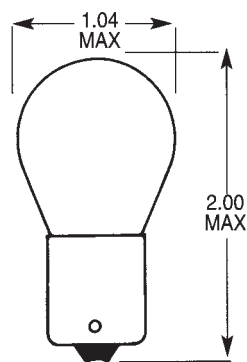
Miniature Lamps

Commercial Number	Volts	Bulb Type	Base	Length (A)	Width (B)
605	6.15	G4.5	Mini Screw	1.06	0.588
623	28	G6	SC Bay	1.44	0.75
624	28	G6	DC Bay	1.44	0.75
631	14	G6	SC Bay	1.44	0.75
656	28	T3.25	Wedge	1.06	0.41
657	28	T3.25	Wedge	1.06	0.41
658	14	T3.25	Wedge	1.06	0.41
685	5	T1	Sub-Midget Flg	0.375	0.125
705	28	S8	SC Bay	2.00	1.04
755	6.3	T3.25	Mini Bay	1.187	0.41
756	14	T3.25	Mini Bay	1.187	0.41
757	28	T3.25	Mini Bay	1.187	0.41
904	13.5	T5	Wedge	1.49	0.65
906	13	T5	Wedge	1.49	0.65
908	6	T5	Wedge	1.49	0.65
909	6	T5	Wedge	1.49	0.65
912	12.8	T5	Wedge	1.49	0.65
914	4	T5	Wedge	1.49	0.65
915	12	T5	Wedge	1.49	0.65
916	13.5	T5	Wedge	1.49	0.65
917	12	T5	Wedge	1.49	0.65
918	12.8	T5	Wedge	1.49	0.65
921	12.8	T5	Wedge	1.49	0.65
922	12.8	T5	Wedge	1.49	0.65
926	4	T5	Wedge	1.49	0.65
927	6	T5	Wedge	1.49	0.65
939	6	T5	Wedge	1.49	0.65
967	130	T3.25	Mini Bay	1.187	0.41
1003	12.8	B6	SC Bay	1.75	0.775
1004	12.8	B6	DC Bay	1.75	0.775
1034	12.8/14	S8	DC Index	2.00	1.04
1062	40	RP11	DC Bay	2.25	1.42
1073	12.8	S8	SC Bay	2.00	1.04
1076	12.8	S8	DC Bay	2.00	1.04
1129	6.4	S8	SC Bay	2.00	1.04
1133	6.2	RP11	SC Bay	2.25	1.42
1141	12.8	S8	SC Bay	2.00	1.04
1142	12.8	S8	DC Bay	2.00	1.04
1152	12.8	S8	DC Bay	2.00	1.04
1154	6.4/7	S8	DC Index	2.00	1.04
1155	13.5	G6	SC Bay	1.44	0.75
1156	12.8	S8	SC Bay	2.00	1.04
1157	12.8/14	S8	DC Index	2.00	1.04
1176	12.8/14	S8	DC Bay	2.00	1.04
1195	12.5	RP11	SC Bay	2.25	1.42
1196	12.5	RP11	DC Bay	2.25	1.42

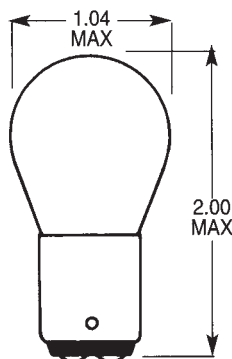


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**S-8 SINGLE CONTACT
BAYONET BASE**



**S-8 DOUBLE CONTACT
BAYONET BASE**

Miniature Lamps

Commercial Number	Volts	Bulb Type	Base	Length (A)	Width (B)
1203	28	S8	SC Bay	2.00	1.04
1224	34	G6	DC Bay	1.44	0.75
1251	28	G6	SC Bay	1.44	0.75
1252	28	G6	DC Bay	1.44	0.75
1308	28	B6	SC Bay	1.75	0.775
1309	28	B6	SC Bay	1.75	0.775
1315	2.5	G5	SC Bay	1.38	0.64
1317	6	B6	SC Bay	1.75	0.775
1383	13	R12	SC Bay	2.63	1.55
1385	28	R12	SC Bay	2.63	1.55
1388	24	R12	DC Bay	2.63	1.55
1408	10	T3.25	Mini Bay	1.187	0.41
1434	3.7	T5	SC Bay	1.75	0.65
1445	14.4	G3.5	Mini Bay	0.94	0.463
1449	14	G3.5	Mini Screw	0.94	0.463
1450	24	G3.5	Mini Bay	0.94	0.463
1460	6.5	S8	DC Pf. (A)	2.00	1.04
1468	6	S8	DC Pf. (S)	2.00	1.04
1476	18	T3	Mini Screw	1.20	0.38
1477	24	T3	Mini Screw	1.20	0.38
1487	14	T3.25	Mini Screw	1.187	0.41
1493	6.5	S8	DC Bay	2.00	1.04
1495	28	T4.5	Mini Bay	1.38	0.588
1561	6.3	S11	SC Prefocus	2.38	1.42
1591	28	S8	SC Bay	2.00	1.04
1594	6	S8	DC Bay	2.00	1.04
1612	5.4	S8	DC Bay	2.00	1.04
1619	6.7	S8	SC Bay	2.00	1.04
1665	28	S8	SC Bay	2.00	1.04
1680	6	S8	SC Bay	2.00	1.04
1683	28	S8	SC Bay	2.00	1.04
1691	28	S8	SC Bay	2.00	1.04
1692	28	S8	DC Bay	2.00	1.04
1813	14.4	T3.25	Mini Bay	1.187	0.41
1815	14	T3.25	Mini Bay	1.187	0.41
1816	13	T3.25	Mini Bay	1.187	0.41
1818	24	T3.25	Mini Bay	1.187	0.41
1819	28	T3.25	Mini Bay	1.187	0.41
1820	28	T3.25	Mini Bay	1.187	0.41
1822	36	T3.25	Mini Bay	1.187	0.41
1828	37.5	T3.25	Mini Bay	1.187	0.41
1829	28	T3.25	Mini Bay	1.187	0.41
1835	55	T3.25	Mini Bay	1.187	0.41
1843	28	T3.25	Mini Bay	1.187	0.41
1847	6.3	T3.25	Mini Bay	1.187	0.41
1850	5	T3.25	Mini Bay	1.187	0.41

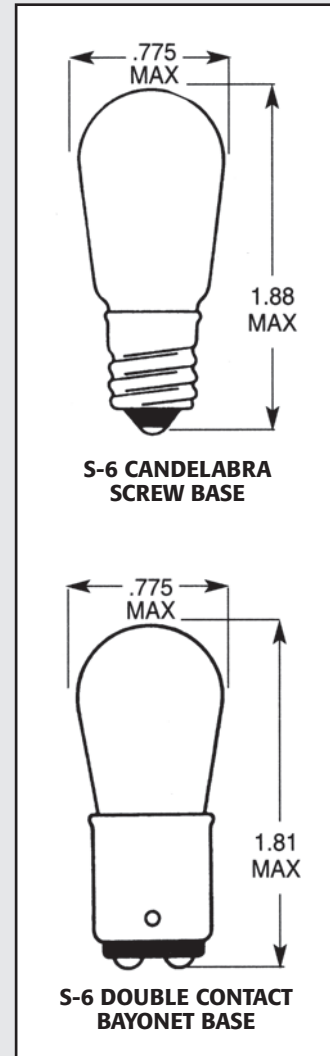
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Miniature Lamps

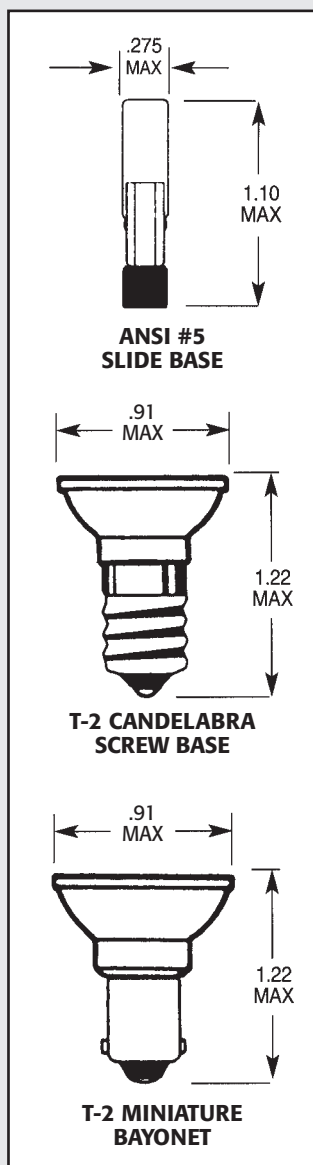
Commercial Number	Volts	Bulb Type	Base	Length (A)	Width (B)
1864	28	T3.25	Mini Bay	1.187	0.41
1866	6.3	T3.25	Mini Bay	1.187	0.41
1873	28	T3.25	Mini Bay	1.187	0.41
1876	3.5	T5	SC Bay	1.75	0.65
1889	14	T3.25	Mini Bay	1.187	0.41
1891	14	T3.25	Mini Bay	1.187	0.41
1892	14.4	T3.25	Mini Bay	1.187	0.41
1893	14	T3.25	Mini Bay	1.187	0.41
1895	14	G4.5	Mini Bay	1.06	0.588
2232	28	S8	SC Bay	2.00	1.04
2233	28	S8	SC Bay	2.00	1.04
3011	28	S11	SC Bay	2.38	1.42
7387	28	T1.75	Bi-Pin M-23	0.875	0.23
100A/RS	120	A19	Med. Screw	4.44	2.12
100A	130	A19	Med. Screw	4.44	2.12
100A21/RS/SL	120	A21	Med. Screw	5.31	2.62
10C7	120	C7	Cand Screw	2.13	0.875
10C7DC	115	C7	DC Bay	2.19	0.875
10S11N/CL	130	S11	Cand Screw	2.25	1.42
10S14/IF	120	S14	Med. Screw	3.50	1.75
10S6/DC/AMBER*	250	S6	DC Bay	1.81	0.775
10S6/DC/CL	250	S6	DC Bay	1.81	0.775
10S6/DC/GRN*	250	S6	DC Bay	1.81	0.775
10S6/DC/RED*	250	S6	DC Bay	1.81	0.775
10S6	230	S6	Cand Screw	1.88	0.75
120MB	120	T2.5	Mini Bay	1.20	0.32
120PSB	120	T2	Slide #5	1.10	0.275
120RB	120	T2	Mini Bay	1.22	0.91
120RC	120	T2	Cand Screw	1.22	0.91
12MB	12	T2.5	Mini Bay	1.20	0.32
12PSB	12	T2	Slide #5	1.10	0.275
12RB	12	T2	Mini Bay	1.22	0.91
12RC	12	T2	Cand Screw	1.22	0.91
130MB	130	T2.5	Mini Bay	1.20	0.32
1383TF	13	R12	SC Bay	2.63	1.55
155MB	155	T2.5	Mini Bay	1.20	0.32
155PSB	155	T2	Slide #5	1.10	0.275
15A15	120	A15	Med. Screw	3.50	1.88
15T6	120	T6	Cand Screw	3.06	0.77
15T6/CAND	145	T6	Cand Screw	3.06	0.77
15T7C	120	T7	Cand Screw	2.25	0.88
15WPCL130E14	120	S8	E14	57mm	26mm
194B	14	T3.25	Wedge	1.06	0.41
194G	14	T3.25	Wedge	1.06	0.41
194NA	14	T3.25	Wedge	1.06	0.41

*painted



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Miniature Lamps

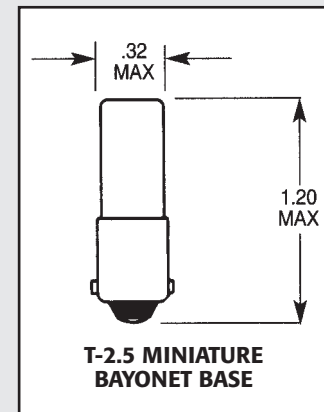
Commercial Number	Volts	Bulb Type	Base	Length (A)	Width (B)
194R	14	T3.25	Wedge	1.06	0.41
240MB	240	T2.5	Mini Bay	1.20	0.32
24CSB	24	T2	Slide #5	0.90	0.275
24MB	24	T2.5	Mini Bay	1.20	0.32
24PSB	24	T2	Slide #5	1.10	0.275
24RB	24	T2	Mini Bay	1.22	0.91
24RC	24	T2	Cand Screw	1.22	0.91
253X	2.5	TL1.75	Midget Grvd	0.625	0.23
25A120	120	A19	Med. Screw	4.44	2.12
25A230	230	A19	Med. Screw	4.44	2.12
25S11/2C120	120	S11	Cand Screw	2.25	1.42
25S1-1/2-CRV 115	115	S1.5	Cand Screw	2.12	1.38
25S6/130CS	130	S6	Cand Screw	1.88	0.775
25T10/120	120	T10	Med. Screw	5.62	1.25
25T8/DC/120	120	T8	DC Bay	2.63	1.04
25T8-130V-CS	130	T8	Cand Screw	2.63	1.04
25T8DC	130	T8	DC Bay	2.63	1.04
25T8N/120	120	T8	Intermediate Scrw	2.63	1.04
25T8N130	130	T8	Intermediate Scrw	2.63	1.04
28MB	28	T2.5	Mini Bay	1.20	0.32
28PSB	28	T2	Slide #5	1.10	0.275
28RB	28	T2	Mini Bay	1.22	0.91
28RC	28	T2	Cand Screw	1.22	0.91
35PSB	35	T2	Slide #5	1.10	0.275
37Q	14	T1.75	Wedge	0.72	0.23
356130	130	S6	Cand Screw	1.88	0.775
40T8/130	130	T8	Med. Screw	11.88	1.04
48C2	48	T2	Tel. Slide #2	1.69	0.26
48MB	48	T2.5	Mini Bay	1.20	0.32
48PSB	48	T2	Slide #5	1.10	0.275
48RB	48	T2	Mini Bay	1.22	0.91
48RC	48	T2	Cand Screw	1.22	0.91
509K	24	G6	Cand Screw	1.38	0.75
60A/120	120	A19	Med. Screw	4.44	2.12
60MB	60	T2.5	Mini Bay	1.20	0.32
60PSB	60	T2	Slide #5	1.10	0.275
60RB	60	T2	Mini Bay	1.22	0.91
60RC	60	T2	Cand Screw	1.22	0.91
6MB	6	T2.5	Mini Bay	1.20	0.32
6PSB	6	T2	Slide #5	1.10	0.275
6RB	6	T2	Mini Bay	1.22	0.91
6RC	6	T2	Cand Screw	1.22	0.91
6S6/CL/12	12	S6	Cand Screw	1.88	0.775
6S6/CL/120	120	S6	Cand Screw	1.88	0.775
6S6/CL/145	145	S6	Cand Screw	1.88	0.775
6S6/CL/155	155	S6	Cand Screw	1.88	0.775

Questions? Answers at...

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Miniature Lamps

Commercial Number	Volts	Bulb Type	Base	Length (A)	Width (B)
6S6/CL/230	230	S6	Cand Screw	1.88	0.775
6S6/CL/30	30	S6	Cand Screw	1.88	0.775
6S6/CL/48	48	S6	Cand Screw	1.88	0.775
6S6/CL/6	6	S6	Cand Screw	1.88	0.775
6S6/CL/60	60	S6	Cand Screw	1.88	0.775
6S6/DC/130	130	S6	DC Bay	1.81	0.775
6S6/DC/145	145	S6	DC Bay	1.81	0.775
6S6CS	230	S6	Cand Screw	1.88	0.775
6S6/DC/24	24	S6	DC Bay	1.81	0.775
6S6/DC/32	32	S6	DC Bay	1.81	0.775
6T4-1/2/CAND	125	T4.5	Cand Screw	1.38	0.588
75A/RS	120	A19	Med. Screw	4.44	2.12
90MB	90	T2.5	Mini Bay	1.20	0.32
A9AC	65AC/90DC	T2	Wire Terminal (1.25")	0.75	0.25
B1A	120	T3 1/4	Mini Bay	1.187	0.41
B2A	120	T3 1/4	Mini Bay	1.187	0.41
F15T12CW	N/A	T12	Med. Bi-pin	1.5	18.0
H43C	14	S6	Cand Screw	1.88	0.75
K1AZR10	125	T2	Slide #5	1.10	0.29
L30120	120	T8	Disc	17.75	1
L40120	120	T8	Disc	11.75	1
L60120	120	T8	Disc	17.75	1
MP123					
NE120RC	120	T2	Cand Screw	1.22	0.91
NE51 (B1A)	120	T3.25	Mini Bay	1.19	0.43
NE57 (F3A)	105-125	T4.25	Cand Screw	1.53	0.58
PR12	5.95	B3.5	SC Mini Flg	1.25	0.445
PR13	4.75	B3.5	SC Mini Flg	1.25	0.445
PR18	7.2	B3.5	SC Mini Flg	1.25	0.445
PR2	2.38	B3.5	SC Mini Flg	1.25	0.445
PR3	3.57	B3.5	SC Mini Flg	1.25	0.445
PR6	2.47	B3.5	SC Mini Flg	1.25	0.445
PR7	3.7	B3.5	SC Mini Flg	1.25	0.445
ST151 (Starter for TLD18W Lamp)	N/A	N/A	N/A	N/A	N/A
TLD18W/17GREEN FL LAMP	N/A	T8	Med. Bi-pin	24.0	1.04



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LEDT18



W904-28



LEDT18



LED-PSB



LED-MB



LED-MB



LED6MSW



LED85



LED6S6



LED6S6



1383-2W-LED



GBF-LED



MR16-3W-LED



MR11-LED

Elevator Based LEDs

Lamps for Elevator Floor & Call Buttons

Incandescent Part Number	LED Part Number	Voltage	Lamp and Base Type
24PSB	LED24PSB-COLOR-ACDC	24V	T2 #5 SLIDE BASE
28PSB	LED28PSB-COLOR-ACDC	28V	T2 #5 SLIDE BASE
48PSB	LED48PSB-COLOR-ACDC	48V	T2 #5 SLIDE BASE
60PSB	LED60PSB-COLOR-ACDC	60V	T2 #5 SLIDE BASE
120PSB	LED120PSB-COLOR-ACDC	120V	T2 #5 SLIDE BASE
155PSB	LED155PSB-COLOR-ACDC	155V	T2 #5 SLIDE BASE
24MB	LED24MB-COLOR-ACDC	24V	T2.5 MINIATURE BAYONET BASE
28MB	LED28MB-COLOR-ACDC	28V	T2.5 MINIATURE BAYONET BASE
48MB	LED48MB-COLOR-ACDC	48V	T2.5 MINIATURE BAYONET BASE
60MB	LED60MB-COLOR-ACDC	60V	T2.5 MINIATURE BAYONET BASE
90MB	LED90MB-COLOR-ACDC	90V	T2.5 MINIATURE BAYONET BASE
120MB	LED120MB-COLOR-ACDC	120V	T2.5 MINIATURE BAYONET BASE
85	LED-85-COLOR	28V	T1.75 WEDGE BASE
6S6	LED-6S6-120V-COLOR	120V	S6 CANDELABRA SCREW
25T8DC	LEDT18D-120-COLOR	120V	T8 DC BAYONET BASE
502	LED6MSW-ACDC	6V	G4.5 MINIATURE SCREW BASE
657	W904-28-COLOR28V	T3.25	WEDGE BASE

Above lamps available in red, orange, yellow, white, green, blue.

Hall Lanterns

Part Number	Voltage	Replaces	
		Incandescent	Lamp Type
LED6S6	120VAC	25S11	S6 candelabra screw based LED
LED6S6-DC	120VAC	6S6-DC	15mm DC bayonet based LED

Above lamps available in red, orange, yellow, white, green, blue.
ELV419/ELV409 (green only)

Features:

- Maintenance free, easy installation
- Long life, 100,000+ hrs (10 years)
- Solid state, high shock/vibration resistant
- Built-in current limiting resistors
- Low power, high density
- Major power savings

Options:

- Special Voltages
- Industry standard bases
- Bi-Color configuration
- Flashing

Elevator Cab Lighting

Part Number	Base	Wattage	Voltage	Replaces
1383-2W-LED	SCB	2W	12V	20W 1383 Reflector
GBF-LED	DCB	2W	12V	20W GBF Halogen
MR16-3W-LED	Gx5.3 2-Pin	3W	12V/120V	5-25W Halogen MR16
MR11-LED	G24 2-Pin	3W	12V	5-20W Halogen MR11

Features:

- 75%–90% less power consumption vs. incandescent lamps
- 50,000 life hours (10–15x longer life vs. incandescent lamps)
- Powerful lumen output combined with effective light distribution
- Very low heat output to the touch, and no UV light.
- 1-year warranty

If you can't find the LED you are looking for in this catalog, please call us. We are adding new parts to our inventory that may not be shown.

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LIGHTING FIXTURES



ELEVATOR SUPPLY DIVISION

CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC.

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or visit us online at
www.cedlevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

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ELPB-1



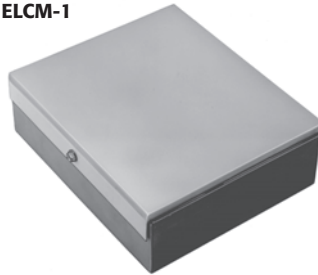
ELSL-2



ELWS-2



ELCM-1



Designed for use in new construction, modernization, and direct replacement for existing units. Meeting both lighting and alarm codes ANSI A17.1, these systems contain maintenance-free nickel cadmium batteries and solid state circuitry with accessory terminals for use with 6V DC alarm bell.

ELCM-1

Ceiling mount, self-contained unit, with white acrylic lens, optional alarm bell. Can be wired into terminal strip. Dimensions: 6⁵/₁₆" x 5¹/₄" x 1¹³/₁₆".

ELPB-1

Mounts inside car operating panel. Power pack, light source, and rectangular lens included. For OEM and replacement use. CSA approved.

ELPB-2

Mounts to back of cover plate, 3"-diameter round lens. For OEM and replacement use.

ELSL-2

Remote trimline model. Car top mount power supply with alarm bell. 18-gauge galvanized steel box. External test switch. Remote light source, 7" x 1⁷/₈" x 1" (can be mounted in car above operating panel or ceiling). CSA approved.

ELSL-ACBG

Remote trimline model, similar to model ELSL-2 with ground fault circuit interrupter.

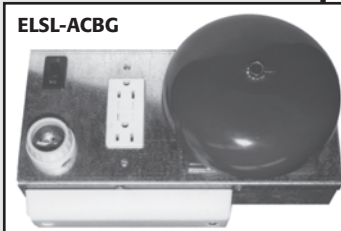
ELWS-2

Wall surface mount. Brushed stainless steel finish, 5¹/₂" x 8¹/₂". Optional alarm bell can be wired into terminal strip. CSA approved.

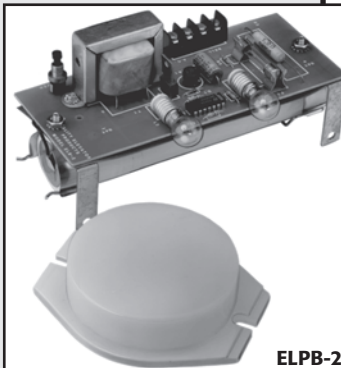
ELWS-2B

Same as ELWS-2 with a bronze electroplated finish.

ELSL-ACBG



ELPB-2

**Questions? Answers at...**

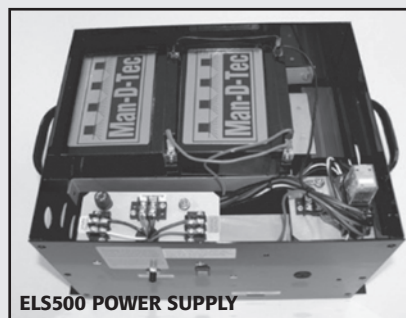
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Emergency Lighting & Replacement Parts

ELS-500 Emergency Lighting System

Line Voltage (120 VAC) Emergency Lighting for Elevator Cabs with Fluorescent or Incandescent Lighting

- Converts normal cab lighting of either Incandescent or Fluorescent lamps to emergency lighting in the event of a normal power outage.
- Single power supply provides power to light up (2) 40W Fluorescent or (2) 50W Incandescent lamps to exceed code lighting requirements.
- Simple wiring only requires two of the normal fixtures to be attached to a terminal strip provided in the power supply.
- Alarm terminals are also provided to power an optional signaling alarm (6 VDC & 12 VDC)



ELS500 POWER SUPPLY

Sealed Lead-Acid Replacement Battery

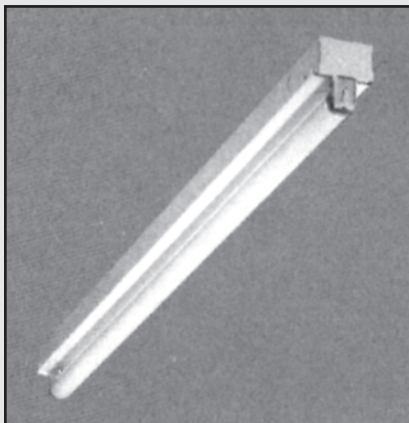
Part Number	Nominal Voltage	Nominal Capacity AH	Current @ 20-hr. rate mA	Length	Width	Height	Weight lbs. / kg.	Standard Terminals
PS-12260F2	12	26	1300	6.54	6.88	4.95	18/8.18	F2

Emergency Light Replacement Parts

Part Number	Description
BATBR23A	3V lithium battery with Epson Plug and 5" leads, for T.I., G.E. and Maida micro-processor back-ups. Minimum 5-year shelf life.
15EL001	ELSL-2 Power pack w/circuit board & battery
15EL002	ELPB-1 Power pack w/circuit board & battery
15EL003	ELCM-1 Power pack w/circuit board & battery
15EL004	ELWS-2 Power pack w/circuit board & battery
15EL005	ELSL-2 Without bell
15EL006	ELSL-2 Without lens
15EL007	ELSL-2 Lens with leads
15EL008	ELPB-1 Lens & bracket
A02EL001	ELWS-2 Lens only
A02EL005	ELPB-1 Lens only
21EL005	Nicad battery w/5 to 6-year lifespan (approx.)
71LB0035	502 Replacement lamp

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Strip Lights

Metalux® SN Series Narrow Strip Light

A functional and multi-purpose narrow strip light that incorporates premium performance and construction durability. The performance and application versatility of this series can be increased by incorporating symmetrical or asymmetrical reflectors.

Ordering Information

1. Specify TANDEM:

6T=6ft. length 8T=8ft. length

2. Specify SERIES:

SN

3. Specify NUMBER OF LAMPS:

1

4. Specify WATTAGE (Length):

15=15W (18") 17=17W (24") 20=20W (24")
 25=25W (36") 30=30W (36") 32=17W Octron (48")
 40=40W (48")

5. Specify VOLTAGE:

LTS=Low Trigger Start (18" or 2')

HTS=High Trigger Start (18" or 2')

LRS=Low Rapid Start (3' or 4')

HRS=High Rapid Start (3' or 4')

6. Specify VOLTAGE:

120=120V 277=277V UNV=120- 277V

7. Specify BALLAST TYPE (LRS and HRS only):

LE3=Energy Saving Ballast

LEOC8=Energy Saving Ballast (T-8 lamp only)

EB=Generic Electronic Ballast

8. Options:

GL=Internal Single Element Fusing

GM=Dual Element Fusing

EL4=Emergency Lighting self-contained (consult factory)

RIF1=Radio Interference Suppressor

6-3/18 SJT-C&P-515=Cord & Plug (120V)

6-3/18 SJT-C&P-L715P=Cord & Plug (277V)

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LUBRICANTS & FUNCTIONAL FLUIDS



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or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

17

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Part Number	Product Name/Description	Container Size
BF2106032-5	BioFlo	5 gal. pail
BF2106032-55	BioFlo	55 gal. drum
BG31002-10	BioGrease	
BL10000215	Penetrating Oil	
FBL7900046	Chain/Cable Aerosol Lubricant	

Technical Data

BioFloAW^{EO}	46
ISO Grade	46
Specific Gravity	.913
Viscosity	ASTM D445
@ 40°C, cSt	46
Viscosity Index	ASTM D2270
	>200
Pour Point °F (°C)	ASTM D97
	-20 (-28)
Flash Point °F (°C)	ASTM D92
	>500 (260)
Copper Corrosion	ASTM D4048
	1A
Rust Test, A & B	ASTM D665
	Pass
Biodegradability, %	CEC-L-33-A-94
	>95
Suggested Operating Range	20F to 160F

Product Comparison

Features	BioFloAW ^{EO}	Mineral Oil
Flash Point °F	>500	>400
% Biodegradable	>95	>20
Friction Reduction		
During Service Life	Superior	Excellent
Renewable Resource	Yes	No
Meets Environmental		
Mandates & Exec. Orders	Yes	No
Non-Toxic & Non-Hazardous	Yes	No
Contains Rust, Corrosion		
Anti-Foam, Oxidation & Demulsibility Additives	Yes	No
Non-Hazardous	Yes	No
USDA BioPreferred SM		
(Mobile Hydraulics)	Yes	No

Biodegradable Performance Oils

BioFlo AW^{EO}

Biodegradable Elevator Hydraulic Oil

BioFloAW^{EO} is designed to withstand the rigorous environment a typical elevator application encounters. The high flash point adds a considerable amount of safety in the case of a fire. The product is environmentally safe, a renewable resource and non-toxic. It is perfect for "holeless" and "in ground" hydraulic elevator applications especially in environmentally sensitive areas.

BioFloAW^{EO} is formulated from readily biodegradable, high lubricity base oils coupled with proprietary non-toxic rust and anti-corrosion additives. The special Rust & Oxidation (R&O) additives and anti-foam agents help provide maximum demulsibility of water and reduce air entrainment to provide higher circulation rates. This high performance formula can reduce operating temperatures, friction, and component wear in elevator hydraulic systems. Excellent thermal and oxidative stability assure superior service life with minimal viscosity change over a broad range of operating temperatures. Available in ISO grade 46.

Features

- Readily biodegradable, nontoxic
- Advanced rust and corrosion protection
- High viscosity index/temperature stability
- Turbine quality R&O additives
- Excellent demulsibility
- Low air entrainment to increase circulation rates

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Aluminum Complex & Wire Rope Greases

Ball & Roller Bearing Hi-Temp Grease

[Photo not available]

NLGI Grade 2 aluminum complex-based grease formulated specifically to handle the high loads and high temperatures inherent in bearing applications to help increase equipment productivity and life. Formulated with "Moly" and petroleum polymers. Combines moderately high oil viscosity with low temperature pumpability to provide high performance with a wide operating range. Won't wash out, pound, splatter or run out under the heaviest of loads. Resists mild detergent and alkaline wash.

Hi-Temp Disc Brake Wheel Bearing Grease

Very stable, aluminum complex-based thickened grease made from highly refined base oils with rust and oxidation inhibitors. Contains anti-wear, extreme pressure additives and is extremely water resistant with a drop point temperature of 470°F. Fortified with moly disulfide and graphite for extra plating protection. "Tacky" extreme pressure NLGI Grade 2 grease with 40lb. Timken OK rating. Sustains heavy and severe shock loads.

Nyrosten® Rope Oil Compound

[Photo not available]

Grease lubricant specially formulated for wire rope lubrication. Consists of mineral oil components with special inhibitor and stabilizer additives. Nyrosten® is used in the manufacture of Messilot® elevator wire ropes, and is approved by all major wire rope manufacturers as a suitable field lubricant.

Maxglide® Hydraulic Oil Additive

How many jobs do you have that are hard to manage because of high traffic and high operating temperatures? Are you increasing leveling speed settings to eliminate chatter? This product has been proven to reduce, or even eliminate serious conditions in regards to unmanageable cylinder packing friction (stick slip, chatter). Safe for submersible motors. Stabilizes operating performance by minimizing packing friction which reduces head reducing operating wear of hydraulic system components.

Hydraulic Oil Additive

[Photo not available]

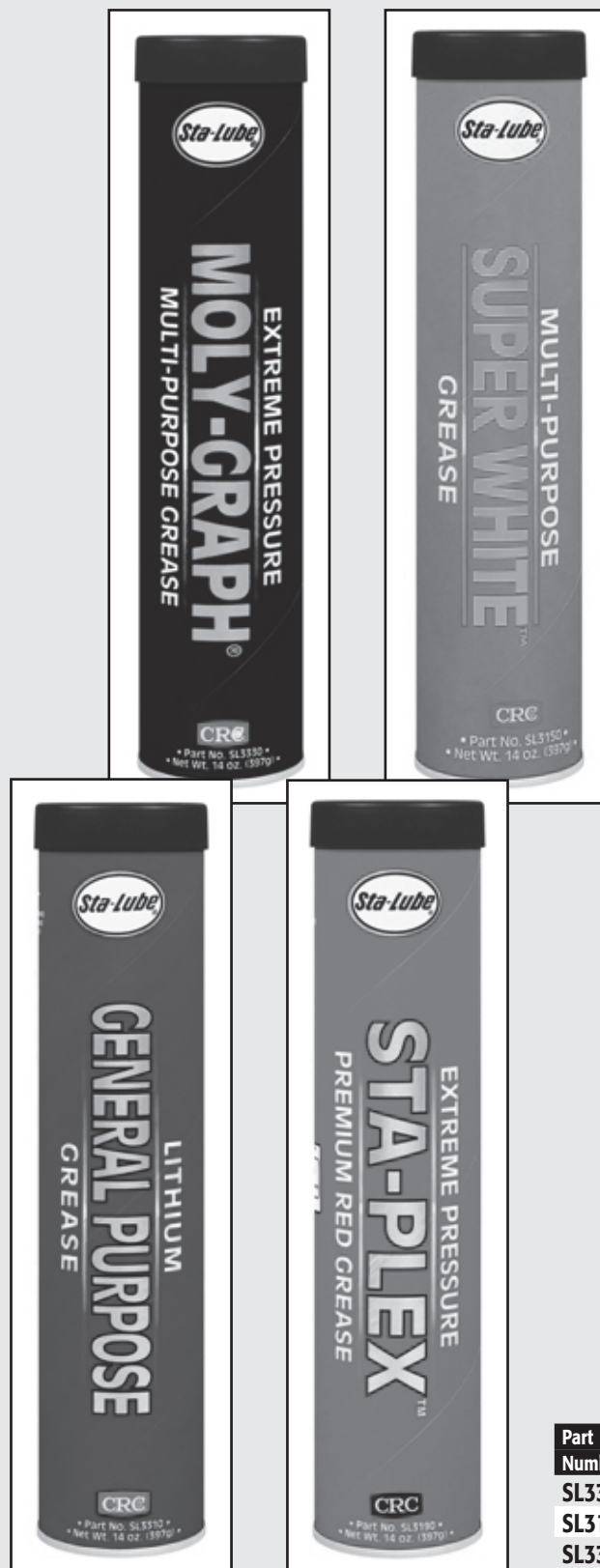
Low-friction additive, relieves "stick-slip" on noisy hydraulic cylinders.



Part Number	Product Name	Container Size	Units per Case
SL3630	Ball & Roller Bearing Hi-Temp Grease	14oz. cartridge	10
SL3160	Hi-Temp Disc Brake Wheel Bearing Grease	14oz. cartridge	10
NYROC	Nyrosten Rope Oil Compound	1 gallon	1
MXG	Maxglide Hydraulic Oil Additive	1 quart	12
1U-9891	Hydraulic Oil Additive	1 quart	12

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Lithium-Based Greases

E.P. Moly-Graph® Multi-Purpose Grease

Lithium 12 hydroxy stearate NLGI Grade 2 grease improves metal finish, reduces wear, increases parts life, reduces down-time and increases relubrication intervals. Handles heavy loads, water attack, and shock loads. Contains rust and oxidation inhibitors and extreme pressure additives. Maintains a 40 lb. Timken OK Load.

Super White Multi-Purpose Grease

Lithium-based, water-resistant, NLGI Grade 2 grease for use where cleanliness, appearance and visibility are important. Zinc oxide and titanium dioxide additives reduce friction and wear. Resists water wash out. Dispense manually or through central grease systems.

Lithium General Purpose Grease

Economical, NLGI Grade 2 general purpose grease for use where extreme pressure properties are not required. Highly water resistant; will not break down or run out. Oxidation inhibited. Smooth, buttery consistency. Ideal for automatic or manual dispensing systems.

Extreme Pressure Sta-Plex™ Premium Red Grease

Premium, NLGI Grade 2 lithium complex grease for severe operating conditions involving high loads and high temperatures. Maintains 80 lb. Timken OK Load, indicative of an exceptionally high load wear index and low scar wear properties. Provides superior rust protection and oxidation resistance. Drop Point temperature over 500°F. Can provide lubrication continuously at 300°F. Tackiness additive prevents grease from slinging-off bearings at high rpms. Excellent pumpability in both hot and cold conditions.

Part Number	Product Name	Container Size	Units per Case
SL3330	E.P. Moly-Graph® Multi-Purpose Grease	14oz. Cartridge	10
SL3150	Super White Multi-Purpose Grease	14oz. Cartridge	10
SL3310	Lithium General Purpose Grease	14oz. Cartridge	10
SL3190	E.P. Sta-Plex™ Premium Red Grease	14oz. Cartridge	10

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Lubricants & Corrosion Inhibitors

2-26® Multi-Purpose Precision Lubricant

Versatile, plastic safe, multi-purpose lubricant, penetrant and corrosion inhibitor. Unique viscosity allows it to cover more surface area and penetrate deep into surfaces of all metals, including steel, copper, brass, and aluminum alloys. Drives out moisture and leaves a thin, long-lasting film to protect against corrosion.

Electrical Grade Silicone

Dry film silicone lubricant provides superior lubricity for metal and non-metal surfaces. Low surface tension permits better coverage and deeper penetration. Non-hardening lubricant minimizes corrosion. Note: This product is labeled extremely flammable. Read and observe label warnings. Do not apply while equipment is energized.

Zinc It®

Acrylic-based, 95% pure zinc coating provides the protection of hot-dipped galvanize with the convenience of an aerosol. Bonds to ferrous metals to provide a sacrificial coating to protect against corrosion. Note: This product is labeled extremely flammable. Read and observe label warnings. Do not apply while equipment is energized.

Rust Proof Enamel Spray Paint

[Photo not available]

Rust resistant, premium quality alkyd enamel, and the premier corrosion fighter in the marketplace. Specifically formulated to resist rusting peeling and fading. Fights weathering, salt spray and the most severe and demanding industrial conditions. Use with CRC Rust Proof Primer (Part Number 18150, Gray, and 18151, Red Oxide) to guarantee maximum durability. Note: These products are labeled extremely flammable. Read and observe label warnings. Do not apply while equipment is energized. Check local regulations for special storage requirements.

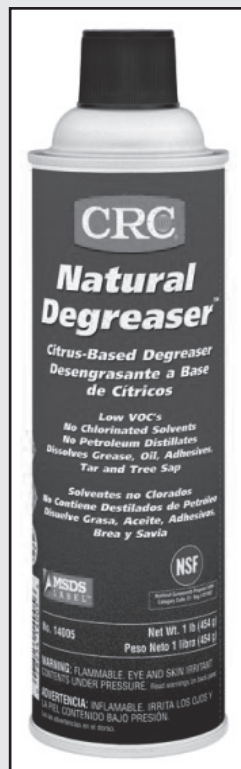


Part Number	Product Name	Type	Container Size	Units per Case
02005	2-26®	Petroleum Oil	16oz.*	12
02094	Electrical Grade Silicone	Silicone	16oz.	12
18114	Machinery Lt Gray Spray Paint (ANSI/ASA 61)		20oz.	

* Available in 2oz., 6oz., 16oz., 1gal., 5gal., and 55gal. containers

Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Hand Cleaner & Degreasers

Mechanix Orange™ Citrus Lotion Hand Cleaner with Pumice

Formulated with the natural cleaning power of citrus, it quickly cleans away the toughest soil, grime, ink, oil and paint. Used with or without water, the highly concentrated formula is natural and pH balanced to be gentle on hands. Serious scrubbing power comes from fine-grade pumice. Fortified with glycerine, aloe vera and special conditioners, to leave your hands with a fresh orange scent. Biodegradable and contains no petroleum solvents.

Lectra Clean® Heavy Duty Degreaser

Versatile, non-ozone depleting cleaner/degreaser aggressively removes most industrial soils to help maximize operating performance. Non-flammable, chlorinated solvent evaporates rapidly and dries residue free for quick and easy maintenance of industrial and electrical equipment. For any application permitting the use of chlorinated solvents and not involving sensitive plastics.

Natural Degreaser™

Naturally formulated, biodegradable cleaner/degreaser designed for every day maintenance needs. Superior for tackling grease, tar, oil, adhesives and tree sap. Advanced technology blend evaporates without leaving a residue. Meets OECD 301B standards for biodegradability. Safe on most plastics.

Part Number	Product Name	Type of Cleaner	Container Size	Units per Case
SL1712	Mechanix Orange™	Pumice	16oz.*	12
02018	Lectra Clean®	Chlorinated	20oz.**	12
14005	Natural Degreaser™	Terpene/Glycol Ether	20oz.**	12

* Available in 16oz., and ½ and 1gal. bottles with pump

** Available in 20oz., 1, 5, and 55gal. containers

Questions? Answers at...

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HydroForce™ Aqueous Cleaners

HydroForce™ Grease Buster

A revolutionary new degreaser that attacks grease, oil, and grime, outperforming all other aqueous products. Cleans as well as some solvent-based degreasers, and easily outperforms the leading all-purpose cleaner. May be diluted for use on glass, fiberglass, ceramics and floor coverings.

Hydroforce™ All-Purpose Cleaner/Degreaser

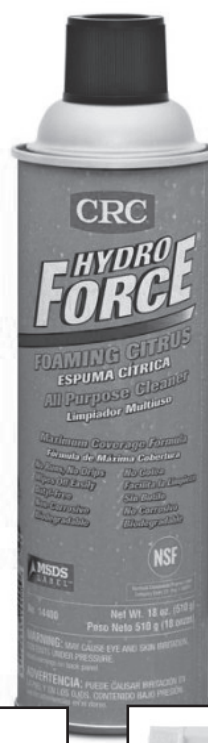
For everyday cleaning of tough dirt, dust, chemicals, and carbon build-up. This cleaner sets the performance standard for butyl-free products. May be diluted for use on glass, fiberglass, ceramics and floor coverings.

Hydroforce™ Foaming Cleaner/Degreaser

A foaming aerosol version of Hydroforce™ All-Purpose Cleaner/Degreaser with citrus scent, that lifts dirt and stains, won't run or drip, and wipes off easily.

Hydroforce™ Glass Cleaner

Gets glass and mirrors sparkling clean. Quickly penetrates road film and other types of surface contaminants.



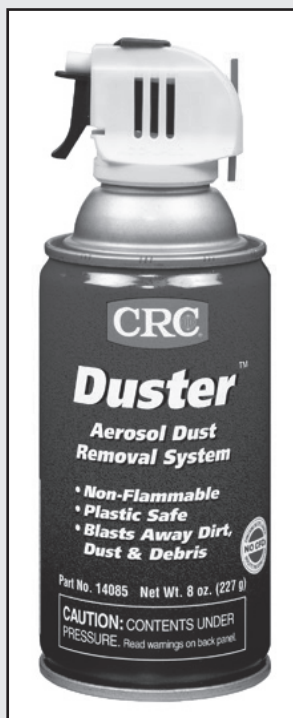
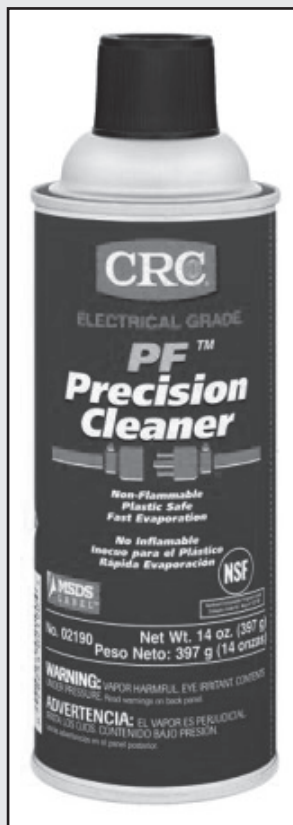
Part Number	Product Name	Type of Cleaner	Container Size	Units per Case
14406	Grease Buster	H ₂ O Surfactant	20oz. aerosol*	12
14400	Foaming Cleaner/Degreaser	H ₂ O Surfactant	20oz. aerosol	12
14401	All-Purpose Cleaner/Degreaser	H ₂ O Surfactant	30oz. spray*	12
14411	Glass Cleaner	H ₂ O Surfactant	30oz. spray bottle**	12

* Available in 20oz. aerosol, 30oz. spray, 1, 5, and 55 gallon containers

**Available in 20oz. aerosol and 30oz. spray

Questions? Answers at...

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Precision Contact Cleaners

PF™ Precision Cleaner

The perfect replacement for CRC 113 where Class II solvents are permitted. Excellent for any application requiring rapid turn-around strong cleaning action, non-flammability and plastic safety. Removes oil build-up, grease dirt, dust, flux and oxidation. Highly recommended for use on transformers, breaker panels, electronics, telephone switching, Datacom and computer equipment.

Contact Cleaner 2000® Precision Cleaner

Developed to aggressively remove oils, greases, and heavy contaminants. Ideal for any application not involving sensitive plastics and requiring nonflammability

Duster™ Dust Removal System

Plastic safe, non-flammable, cleans without wetting surface. Provides a powerful blast that removes dirt, dust and light debris from any surface. Quick maintenance product requiring no dry time. Excellent for removing debris from cracks and joints on non-moveable equipment.

Part Number	Product Name	Type of Cleaner	Container Size	Units per Case
02190	PF™ Precision Cleaner	HFE/HFC	16oz.*	12
02240	Contact Cleaner 2000®	HCFC	16oz.*	12
14085	Duster™	HFC	12oz.	12

* Available in 16oz., 5gal. and 55gal. containers.

Questions? Answers at...

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Adhesives & Sealant Smoke Test, Insecticide

RTV Silicone Adhesive/Sealant Clear

Forms a barely visible watertight seal on windows, joints, duct work and most electrical applications. A general purpose, low-visibility sealant. CRC's RTV (Room Temperature Vulcanizing) Adhesives/Sealants require no special tools or caulking guns. The easy-to-use, pressurized container provides the ultimate in control and handling. Revolutionary package seals itself to minimize waste and messy cleanups. It's the simplest way to seal, protect, bond, and waterproof.

Minute Mend™ Epoxy Putty

Two-part epoxy putty packaged in a convenient one piece stick for immediate, long lasting repairs. Permanently repairs scratches, gouges and holes in drums, tanks, pipes, castings, molds, sinks and tubs.

Smoke Test®

Non-staining, plastic safe aerosol spray that tests the functioning of commercial and residential smoke detectors. Eliminates the need to light cigarettes or matches in order to generate smoke. UL Listed.

Wasp & Hornet Killer Plus™

High strength insecticide that reaches out over 20 feet to knock down and kill wasps, hornets, fire ants, all crawling insects, scorpions, spiders, and other stinging insects on contact. Contains no chlorinated solvent and is harmless to plastics. High dielectric strength of 31,700V.

Part Number	Product Name	Container Size	Units per Case
14070	Minute Mend™	4oz	24
14055	RTV Silicone Adhesive/Sealant	8oz.	12
02105	Smoke Test®	4oz.	12
14010	Wasp & Hornet Killer Plus™	20oz.	12



Questions? Answers at...

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MAC DOOR OPERATORS

SERVICE PARTS GUIDE

Door Operators & Control Parts

PMSSC with Board 1Ø4®	18.2-3
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Questions? Answers at...

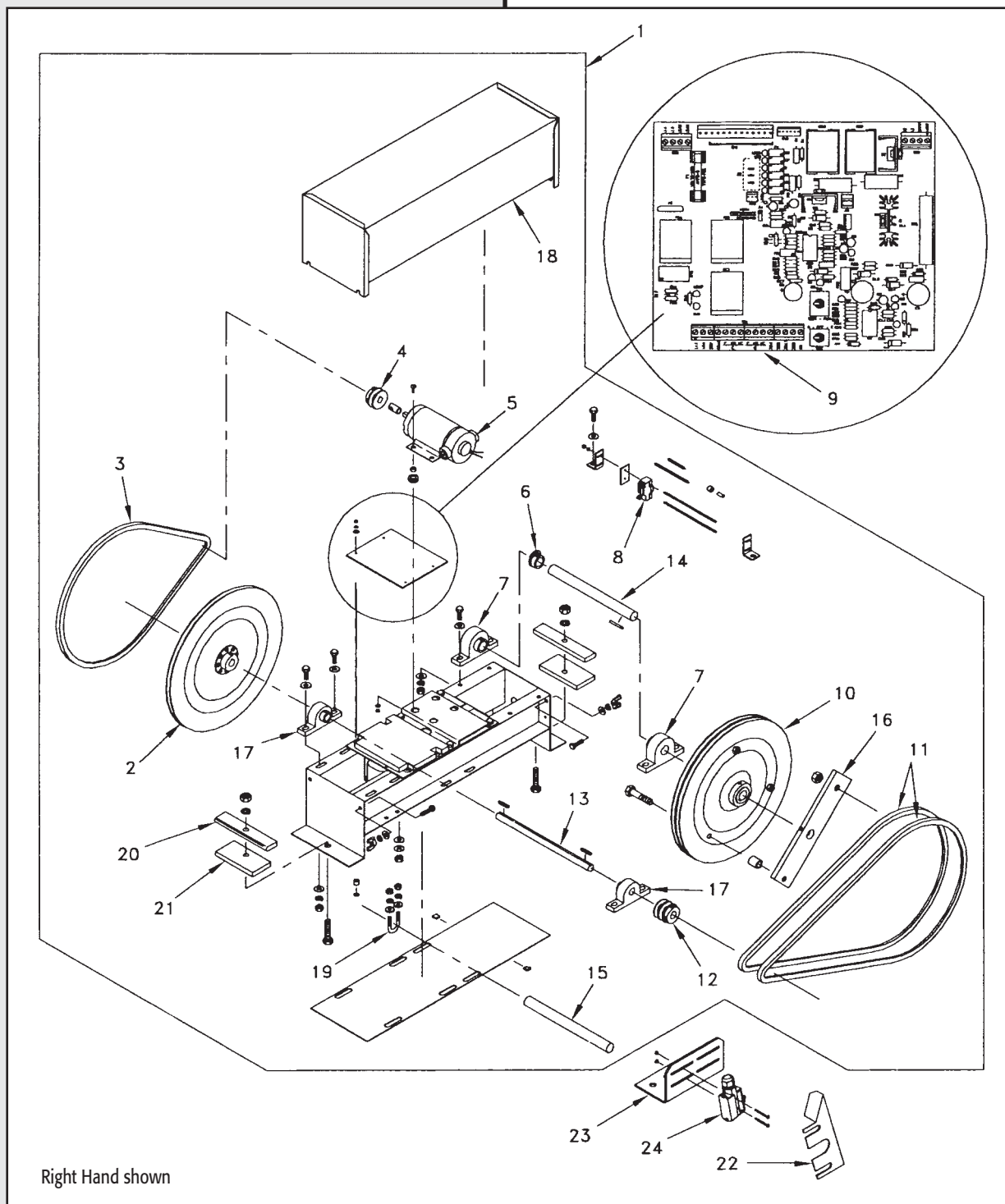
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Eastern US: 1-866-253-2915
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product specifications
with pictures and much more!

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Door Operators PMSSC with Board 104®



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Door Operators PMSSC with Board 1Ø4®

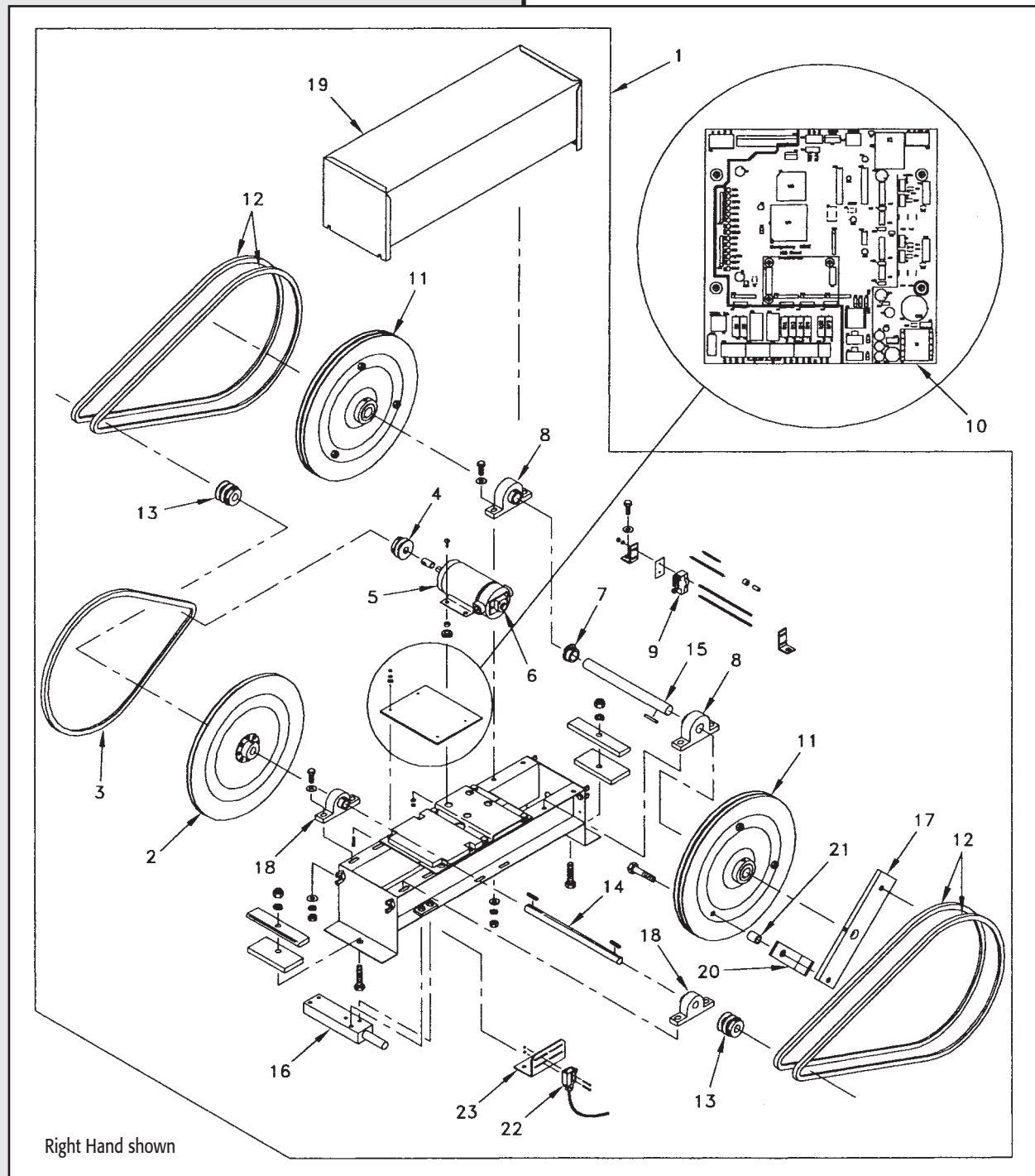
Key	Part Number	Part Name	Description
1	P-35011-001	Door operator, PM/SSC	Complete assembly; RH; with board 1Ø4
	P-35011-002	Door operator; PM/SSC	Complete assembly; LH with board 1Ø4
2	19502-029	Sheave, single	15¼ in. diameter
3	19501-021	Belt	4L 550 Frac hp V-type (A53)
4	19502-031	Sheave, single	1.7 in. pitch for reduction stage
5	101849	Motor, permanent magnet	1140 RPM, 24 VDC
6	25078	Cam, door operator	5 or 6 required
7	38351	Pillow block	1 in. bore
8	100165	Switch, micro	for PMSSC door operators
9	P-24783-001	PC board	Board 1Ø4 with relays, fuse, & instructions
10	19502-028	Sheave, double	15¼ in. diameter
11	19501-022	Belt	4L 680 Frac hp V-type (A66)
12	19502-030	Sheave, double	1.7 in.
13	25076	Shaft	¾ in. x 12 in. for reduction
14	25077	Shaft	Door operator camshaft
15	25075	Shaft, pivot	Door operator
16	25082-***	Crank arm, door operator	Factory drilled per listing, > 48"
	25082-001	Crank arm, door operator	Without drilling for crank bolt
	P-35035-001	Crank arm, door operator	Adjustable for all 30 to 48" openings
17	19500-032	Pillow block	¾ in. dia. bore
18	P-24186	Cover, door operator	
19	P-35008-001	U-bolt hardware bag	Includes U-bolt (101871), hex nuts (47401-003) and lockwashers (48731-003)
20	25089	Bar	
21	25090	Bar	
NS	46208	Transformer	32V 250VA; 2 required for high performance option
NS	46217-020	Rectifier, bridge	25A 200V
NS	46218	Capacitor, electrolytic	4500 uF, 50WV
NS	P-31364	Switch & cam assembly	Used for adding a switch
22	102023-001	Actuator, closure switch	RH
	102023-002	Actuator, closure switch	LH
23	102022-001	Fitting, mounting, closure switch	
24	P-35015-001	Microswitch assembly	Door closure switch

NS = Not Shown

Questions? Answers at...

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Door Operators Closed Loop



Questions? Answers at...

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Door Operators Closed Loop

Key	Part Number	Part Name	Description
1	P-31947-001	Door operator, closed loop	Complete assembly, RH
	P-31947-002	Door operator, closed loop	Complete assembly, LH
2	19502-029	Sheave, single	15¼ in. diameter
3	19501-021	Belt	4L 550 Frac hp V-type (A53)
4	19502-031	Sheave, single	1.7 in. pitch for reduction
5	P-22442-001	Motor & encoder	Encoder shaft magnet
6	P-22444-001	Motor service kit	Inc. encoder, centering tool, space tool, hardware & instructions
7	25078	Cam, door operator	5 or 6 required
8	38351	Pillow block	1 in. bore
9	100165	Switch, micro	For PMSSC door operators
10	P-31872-003	PC board	Main board; closed loop door control
11	19502-028	Sheave, double	15¼ in. diameter
12	19501-022	Belt	4L 680 Frac hp V-type (A66)
13	19502-030	Sheave, double	1.7 in.
14	58819	Shaft	¾ in. for reduction
15	58820 Shaft	Door operator camshaft	
16	P-24187	Shaft, pivot assembly	
17	25082-***	Crank arm, door operator	Factory drilled per listing, > 48"
	25082-001	Crank arm, door operator	Without drilling for crank bolt
	P-35035-001	Crank arm, door operator	Adjustable for all 30 to 48" openings
18	19500-032	Pillow block	¾ in. dia. bore
19	P-24186	Cover, door operator	
20	95468-001	Bracket, stop angle	
21	95467-001	Spacer, drive sheave	
22	P-35015-001	Microswitch assembly	Door closure switch
23	102022-001	Fitting, mounting, closure switch	
NS	46208	Transformer	32V 250VA; 2 required for high performance option
NS	46217-020	Rectifier, bridge	25A 200V
NS	49732	Capacitor, electrolytic	41000 uF, 50WV for high performance power supply
NS	P-31364	Switch & cam assembly	Used for adding a switch
NS	91651-002	Cable, motor encoder	Length = 24 inches

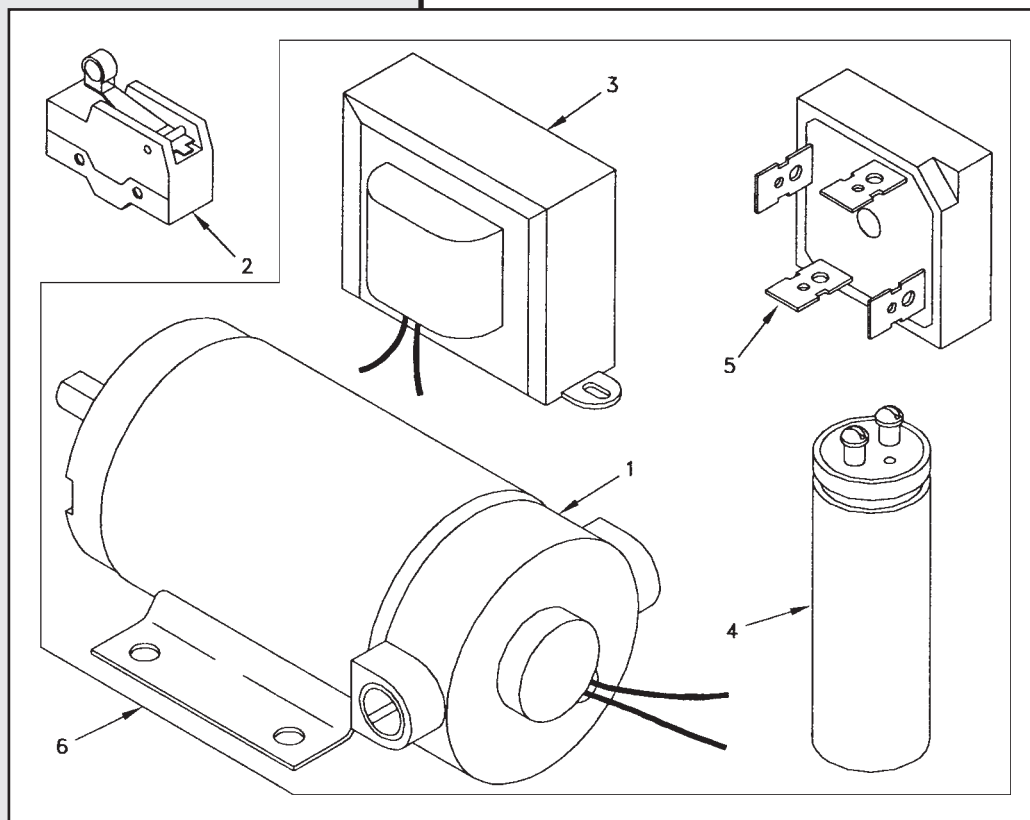
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Door Operators

Power Supplies, Switches & Motor



Key	Part Number	Part Name	Description
1	101849	Motor, permanent magnet	1140 RPM, 24 VDC
2	100165	Switch, micro	for PMSSC door operators
3	46208	Transformer	32V 250VA; 2 required for high performance option
4	46218	Capacitor, electrolytic	4500 uF, 50WV
	49732	Capacitor, electrolytic	41000 uF, 50WV for high performance power supply
5	46217-020	Rectifier, bridge	25A 200V
NS	90527-022	Cable	Replaces previously used cable P-15807
6	P-22267-001	Kit, conversion to solid state	To convert type M to PMSSC; includes motor, door control w/Board 1Ø4, and cover

The above listed parts are for all PMSSC and HPM door operators.

When replacing older four-board systems, use cable assembly 90527-022 to replace wires on existing common board.

NS = Not Shown

Questions? Answers at...

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MECHANICAL PIPING SYSTEMS



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19

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Grooved Fittings

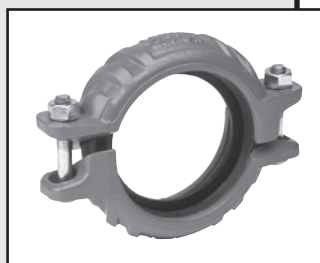
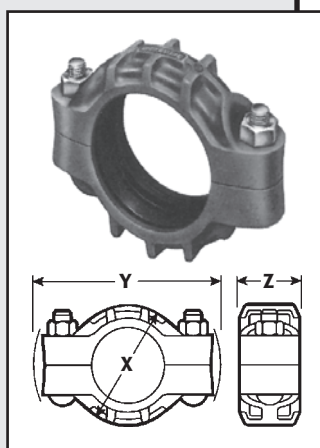
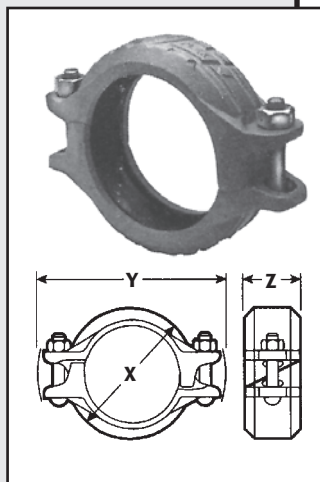
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IPS Carbon Steel Pipe Grooved Couplings

Zero-Flex® Rigid Couplings (Style 07)

This unique angle-pad design of Zero-Flex® Style 07 adjusts to standard pipe and roll or cut groove tolerances, positively clamping the pipe to resist flexural and torsional loads. Wider key section fills more of the groove area. (Request 06.02)

Nom. Size	Max. Work Press.	Dimensions			Approx. Wgt. Each
Inches (mm)	PSI (kPa)	X	Y	Z	Lbs (kg)
1 (25)	750 (5175)	2.45 (62)	4.13 (105)	1.88 (48)	1.6 (0.7)
1¼ (32)	750 (5175)	2.60 (66)	4.00 (102)	1.88 (48)	1.6 (0.7)
1½ (40)	750 (5175)	2.94 (75)	4.81 (122)	1.88 (48)	1.6 (0.7)
2 (50)	750 (5175)	3.19 (81)	5.44 (141)	1.88 (48)	2.3 (1.0)
2½ (65)	750 (5175)	3.88 (98)	6.13 (156)	1.88 (48)	2.8 (1.3)
3*	750 (5175)	4.25 (108)	5.75 (146)	1.86 (47)	3.6 (1.6)
3 (80)	750 (5175)	4.56 (116)	6.81 (173)	1.88 (48)	3.1 (1.4)

*O.D. Dimension

Standard Flexible Coupling (Style 77)

Style 77 couplings are designed with cross-ribbed construction to provide a strong component for pressure piping systems. Sizes ¾–12" (20–300mm) are two-piece housings. Sizes 14–22" (350–550mm) are cast in four identical segments, with larger sizes cast in six segments. (Request 06.04)

Nom. Size	Max. Work Press.	Dimensions			Approx. Wgt. Each
Inches (mm)	PSI (kPa)	X	Y	Z	Lbs (kg)
¾ (20)	1000 (6900)	2.13 (54)	3.63 (92)	1.75 (44)	1.1 (0.5)
1 (25)	1000 (6900)	2.38 (60)	3.88 (98)	1.75 (44)	1.3 (0.6)
1¼ (32)	1000 (6900)	2.63 (67)	4.63 (118)	1.75 (44)	2.0 (0.9)
1½ (40)	1000 (6900)	3.00 (76)	5.00 (127)	1.75 (44)	2.1 (1.0)
2 (50)	1000 (6900)	3.63 (92)	5.63 (143)	1.75 (44)	2.6 (1.2)
2½ (65)	1000 (6900)	4.25 (108)	6.25 (159)	1.75 (44)	3.1 (1.4)
3*	1000 (6900)	4.31 (110)	6.31 (160)	1.75 (44)	3.6 (1.6)
3 (80)	1000 (6900)	5.00 (127)	7.00 (178)	1.75 (44)	3.5 (1.6)

*O.D. Dimension

QuickVic® Flexible Coupling (Style 177)

[Also available in Rigid version, Style 107]

This unique angle pad, installation-ready design is ready to install without disassembly of the coupling. Style 177 adjusts to standard pipe and roll or cut groove tolerances, positively clamping the pipe to resist flexural and torsional loads, while reducing installation time. (Request 06.19)

Nom. Size	Max. Work Press.	Joint Assembled Dimensions			Approx. Wgt. Each
Inches (mm)	PSI (kPa)	X	Y	Z	Lbs (kg)
2 (50)	1,000 (6900)	3.66 (93)	5.98 (152)	1.93 (49)	2.7 (1.2)
2½ (65)	1,000 (6900)	4.16 (106)	6.54 (166)	1.94 (49)	3.1 (1.4)
3 (80)	1,000 (6900)	4.82 (111)	7.13 (181)	1.94 (49)	3.5 (1.6)
4 (100)	1,000 (6900)	6.03 (153)	8.43 (214)	2.13 (54)	5.1 (2.3)

Questions? Answers at...

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 Eastern US: 866-253-2915 or 860-256-2211

IPS Carbon Steel Pipe Grooved Fittings

Elbows, Tees & Crosses

Ductile Iron (except as noted)

Nominal Size Inches (mm)	No. 10 (90° Elbow)		No. 11 (45° Elbow)	
	C to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)	C to E Inches (mm)	Wgt. Ea. Lbs (kg)
¾ (20)	2.25 (57)	0.5 (0.2)	1.50 (38)	0.5 (0.2)
1 (25)	2.25 (57)	0.6 (0.3)	1.75 (44)	0.6 (0.3)
1¼ (32)	2.75 (70)	1.0 (0.5)	1.75 (44)	0.9 (0.4)
1½ (40)	2.75 (70)	1.1 (0.5)	1.75 (44)	0.9 (0.4)
2 (50)	3.25 (83)	2.0 (0.9)	2.00 (51)	1.4 (0.6)
2½ (65)	3.75 (95)	3.2 (1.5)	2.25 (57)	2.2 (1.0)
3*	3.75 (95)	3.7 (1.7)	2.25 (57)	3.4 (1.5)
3 (80)	4.25 (108)	4.4 (2.0)	2.50 (64)	3.1 (1.4)

Nominal Size Inches (mm)	No. 12 (22½° Elbow)		No. 13 (11¼° Elbow)	
	C to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)	C to E Inches (mm)	Wgt. Ea. Lbs (kg)
¾ (20)	1.63sw (41)	—	1.38 sw (35)	—
1 (25)	3.25 (83)**	0.6 (0.3)	1.38 (35)	0.3 (0.1) sw
1¼ (32)	1.75 (44)	0.8 (0.4) sw	1.38 (35)	0.5 (0.2) sw
1½ (40)	1.75 (44)	0.8 (0.4) sw	1.38 (35)	0.5 (0.2) sw
2 (50)	3.375 (95)**	1.4 (0.6)	1.38 (35)	1.0 (0.5)
2½ (65)	4.00 (102)**	2.3 (1.0)	1.50 (38)	1.5 (0.7) sw
3*	—	—	—	—
3 (80)	4.50 (114)**	3.1 (1.4)	1.50 (38)	2.1 (1.0)

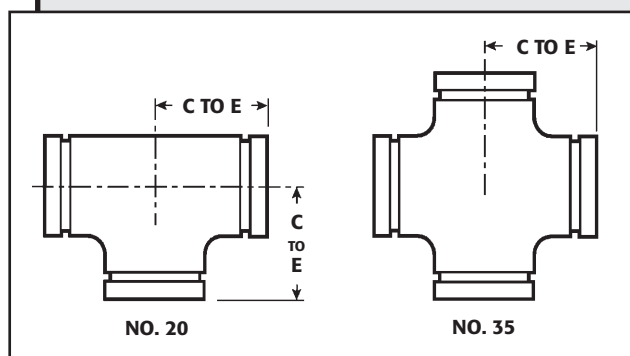
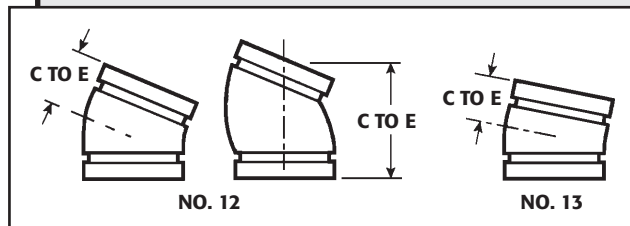
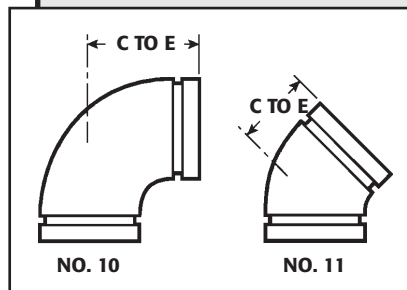
Nominal Size Inches (mm)	No. 20 Tee		No. 35 Cross (sw)	
	C to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)	C to E Inches (mm)	Wgt. Ea. Lbs (kg)
¾ (20)	2.25 (57)	0.6 (0.3)	2.25 (57)	0.9 (0.4)
1 (25)	2.25 (57)	1.0 (0.5)	2.25 (57)	1.3 (0.6)
1¼ (32)	2.75 (70)	1.5 (0.7)	2.75 (1.0)	2.1 (1.0)
1½ (40)	2.75 (70)	2.0 (0.9)	2.75 (70)	2.5 (1.1)
2 (50)	3.25 (83)	3.0 (1.4)	3.25 (83)	3.8 (1.7) d
2½ (65)	3.75 (95)	4.8 (2.1)	3.75 (95)	6.1 (2.8)
3*	3.75 (95)	7.3 (3.3)	—	—
3 (80)	4.25 (108)	6.8 (3.0)	4.25 (108)	10.5 (4.8)

* O.D. Dimension

** Gooseneck design, end-to-end dimension

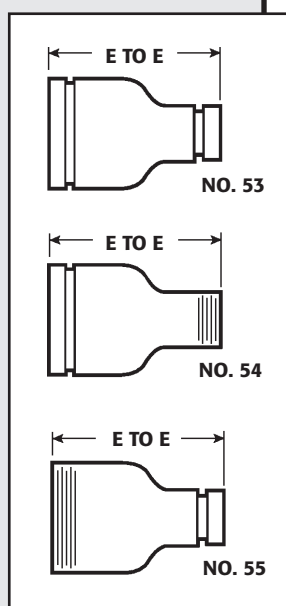
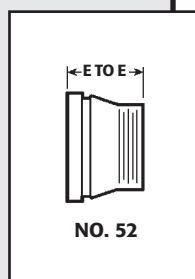
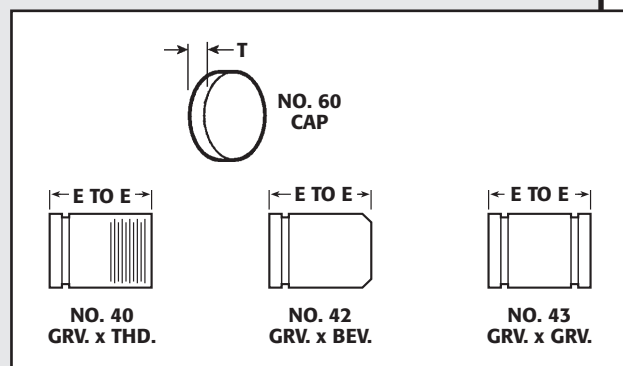
(d) Ductile iron

(sw) Segmentally welded steel



Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211



IPS Carbon Steel Pipe Grooved Fittings

Caps and Nipples [No. 60, 40, 42, 43]

Cap: Ductile Iron, Nipples: Steel

Nominal Size Inches (mm)	Thickness T Inches (mm)	No. 60 Cap**		No. 40, 42, 43 Nipple	
		Approx. Wgt. Ea. Lbs (kg)		E to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)
¾ (20)	0.88 (22)	0.2 (0.1)		3.00 (76)	0.3 (0.1)
1 (25)	0.88 (22)	0.3 (0.1)		3.00 (76)	0.4 (0.2)
1¼ (32)	0.88 (22)	0.3 (0.1)		4.00 (102)	0.8 (0.4)
1½ (40)	0.88 (22)	0.5 (0.2)		4.00 (102)	0.9 (0.4)
2 (50)	0.88 (22)	0.6 (0.3)		4.00 (102)	1.2 (0.5)
2½ (65)	0.88 (22)	1.0 (0.5)		4.00 (102)	1.9 (0.9)
3*	0.88 (22)	1.2 (0.5)		—	—
3 (80)	0.88 (22)	1.2 (0.5)		4.00 (102)	2.5 (1.1)

*O.D. Dimension

**No. 60 cap is not suitable for use in vacuum service with Style 72 or 750 couplings. No. 61 Bull Plugs should be used.

Reducer Threaded—Small End [No. 52]

Nominal Size Inches (mm)	E to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)
1½ x 1 (40 x 25)	2.50 (64)	0.8 (0.4)
2 x ¾ (50 x 20)	2.50 (64)	0.9 (0.4)
2 x 1 (50 x 25)	2.50 (64)	1.0 (0.5)
2 x 1¼ (50 x 32)	2.50 (64)	1.2 (0.5)
2 x 1½ (50 x 40)	3.00 (76)	1.3 (0.6)
2½ x 2 (65 x 50)	2.50 (64)	1.4 (0.6)
3 x 1 (80 x 25)	2.50 (64)	1.3 (0.6)
3 x 2 (80 x 50)	2.50 (64)	1.5 (0.7)
3 x 2½ (80 x 65)	2.50 (64)	2.4 (1.1)

Available with British Standard Pipe Threads, specify "BSP" clearly on order.

Swaged Nipples [No. 53, 54, 55]

Steel

Nominal Size Inches (mm)	E to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)
2 x 1 (50 x 25)	6.50 (165)	2.0 (0.9)
2 x 1¼ (50 x 32)	6.50 (165)	2.0 (0.9)
2 x 1½ (50 x 40)	6.50 (165)	2.0 (0.9)
2½ x 1 (65 x 25)	7.00 (178)	3.0 (1.4)
2½ x 1¼ (65 x 32)	7.00 (178)	3.0 (1.4)
2½ x 1½ (65 x 40)	7.00 (178)	3.0 (1.4)
2½ x 2 (65 x 50)	7.00 (178)	3.0 (1.4)
3 x 1 (80 x 25)	8.00 (203)	4.5 (2.0)
3 x 1¼ (80 x 32)	8.00 (203)	4.5 (2.0)
3 x 1½ (80 x 40)	8.00 (203)	4.4 (2.0)
3 x 2 (80 x 50)	8.00 (203)	4.5 (2.0)
3 x 2½ (80 x 65)	8.00 (203)	4.5 (2.0)

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
 Eastern US: 866-253-2915 or 860-256-2211

IPS Carbon Steel Pipe Grooved Fittings

Concentric/Eccentric Reducers (No. 50, 51)

Steel (except as noted)

Nominal Size Inches (mm)	No. 50		No. 51	
	E to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)	E to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)
1 1/4 x 3/4 (32 x 20)	*	*	-	-
1 1/4 x 1 (32 x 25)	*	*	-	-
1 1/2 x 3/4 (40 x 20)	*	*	-	-
1 1/2 x 1 (40 x 25)	2.50 (64) d	0.8 (0.4)	8.50 (216)	4.5 (2.0)
1 1/2 x 1 1/4 (40 x 32)	*	*	-	-
2 x 3/4 (50 x 20)	2.50 (64) d	0.6 (0.3)	9.00 (229)	2.0 (0.9)
2 x 1 (50 x 25)	2.50 (65) d	0.7 (0.3)	9.00 (229)	2.3 (1.0)
2 x 1 1/4 (50 x 32)	2.50 (65) d	1.2 (0.5)	9.00 (229)	4.6 (2.1)
2 x 1 1/2 (50 x 40)	2.50 (64) d	1.1 (0.5)	9.00 (229)	4.6 (2.1)
2 1/2 x 1 (65 x 25)	9.50 (241)	3.3 (1.5)	9.50 (241)	3.3 (1.5)
2 1/2 x 1 1/4 (65 x 32)	9.50 (241)	3.6 (1.6)	9.50 (241)	*
2 1/2 x 1 1/2 (65 x 40)	9.50 (241)	3.6 (1.6)	9.50 (241)	3.6 (1.6)
2 1/2 x 2 (65 x 50)	2.50 (64) d	1.4 (0.6)	3.50 (89) d	1.6 (0.7)
3 x 1 (80 x 25)	2.50 (64) d	1.4 (0.6)	9.50 (241)	4.8 (2.2)
3 x 2 (80 x 50)	2.50 (64) d	1.6 (0.7)	3.50 (89) d	2.1 (1.0)
3 x 2 1/2 (80 x 65)	2.50 (64) d	1.8 (0.8)	3.50 (89) d	2.2 (1.0)

(d) Ductile iron.

Reducing Tees (No. 25, 29)

Segmentally Welded Steel (except as noted)

Nominal Size Inches (mm)	No. 25 Standard C to E Inches (mm)	No. 29 w/Thd. Branch C to E Inches (mm)	Approx. Wgt. Ea. Lbs (kg)
2 x 2 x ¾ (50 x 50 x 20)	3.25 (83) d	3.25 (83) d	2.5 (1.1)
2 x 2 x 1 (50 x 50 x 25)	3.25 (83) d	3.25 (83) d	2.3 (1.0)
2 x 2 x 1½ (50 x 50 x 40)	3.25 (83)	3.25 (83)	3.2 (1.5)
2½ x 2½ x 1 (65 x 65 x 25)	3.75 (95)	3.75 (95)	3.8 (1.7)
2½ x 2½ x 1½ (65 x 65 x 40)	3.75 (95) d	3.75 (95) d	4.0 (2.0)
2½ x 2½ x 2 (65 x 65 x 50)	3.75 (95)	3.75 (95)	4.5 (2.0)
3 x 3 x 1 (80 x 80 x 25)	4.25 (108) d	4.25 (108) d	6.5 (2.9)
3 x 3 x 1½ (80 x 80 x 40)	4.25 (108)	4.25 (108)	6.5 (2.9)
3 x 3 x 2 (80 x 80 x 50)	4.25 (108)	4.25 (108)	6.2 (2.8)
3 x 3 x 2½ (80 x 80 x 65)	4.25 (108)	4.25 (108)	6.4 (2.9)

No. 29 Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

(d) Ductile iron.

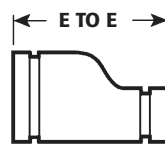
Pressure Gauge Shut Off Ball Valve

The Maxton Hydraulic Shut Off 1/8" Ball Valve has been tested specifically for hydraulic elevator applications. This bar-stock brass design with a double O-ring stem seal features a blow out proof stem and a metal retainer seal. Complies with ASME A17.1

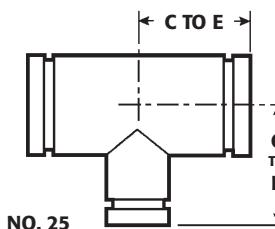
Part Number	Description
BV1-8	1/8" male to male thread
BV1-4	1/4" male to female thread



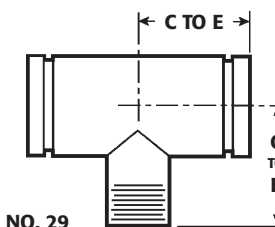
NO. 50



NO. 51



NO. 25



NO. 29



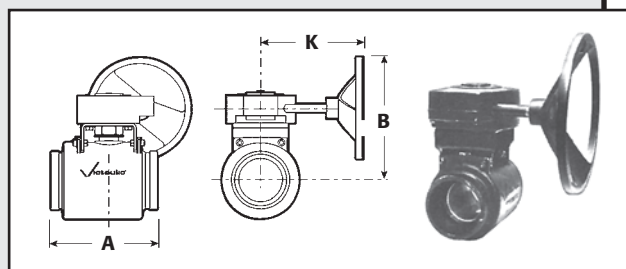
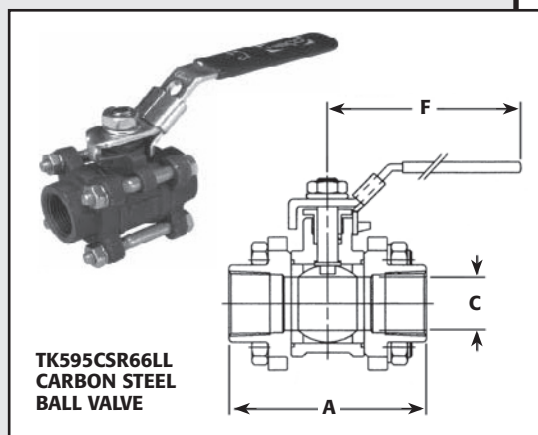
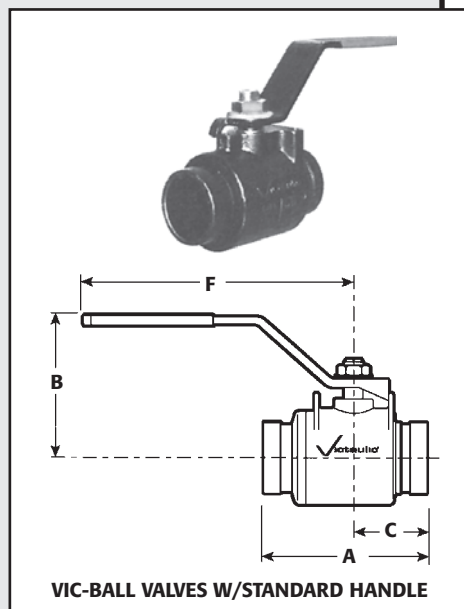
BV1-4



BV1-8

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211



IPS Carbon Steel Pipe Grooved Valves

Vic-Ball® Valves [Series 726]

Vic-Ball valve is a standard port, end-entry valve designed for 1000 PSI (4130 kPa) WOG service. Valve body and end cap are ductile iron. Micro-finished steel ball and stem (316 stainless available), TFE seat streamlined design provides excellent flow characteristics. Vic-Ball valves are available with internal plastic coating or with a full stainless (316) body in 2, 2½, 3 and 4" (50, 65, 80 and 100 mm) sizes. Vic-Ball is available with standard manual handles or gear operators. A tamper resistant lock/seal option is available. For electric or pneumatic actuation, contact Victaulic. Pinned handle are available; contact Victaulic for details.

Request 08.13.

Vic-Ball Valves with Standard Handle [Series 726]

Nom Size Inches (mm)	Dimensions – Inches (mm)				Approx. Wgt. Each Lbs (kg)
	E-E A	Hgt. B	C	F	
1½ (40)	5.00 (127)	2.53 (64)	2.32 (60)	7.13 (181)	5.0 (2.3)
2 (50)**	5.50 (140)	3.31 (84)	2.47 (63)	9.13 (232)	6.5 (2.9)
2½ (65)	6.30 (160)	3.68 (94)	2.82 (72)	9.13 (232)	10.5 (4.8)
3*	6.30 (160)	3.68 (94)	2.82 (72)	9.13 (232)	10.5 (4.8)
3 (80)**	6.71 (170)	3.87 (98)	3.03 (77)	9.13 (232)	13.5 (6.1)

*O.D. Dimension

** Stainless steel body also available.

3-Piece Carbon Steel Ball Valve [TK595CSR66LL]

Full port. Female threaded ends

Nom Size Inches (mm)	Dimensions – Inches (mm)				Approx. Wgt. Each Lbs (kg)
	E-E A	Hgt. B	C	F	
2 (50)	5.43 (138)	4.25 (108)	1.97 (50)	7.95 (202)	9.5 (4.32)

Vic-Ball Valves with Gear Operator [Series 726]

Nominal Size** Inches (mm)	Dimensions – Inches (mm)			Approx. Wgt. Each Lbs (kg)
	E-E A	Height B	K	
2 (50)	5.50 (140)	10.94 (278)	6.87 (175)	11.8 (5.4)
2½ (65)	6.30 (160)	10.88 (276)	6.87 (175)	15.6 (7.1)
3*	6.30 (160)	10.88 (276)	6.87 (175)	15.6 (7.1)
3 (80)	6.71 (170)	11.28 (287)	6.87 (175)	21.8 (9.9)

*O.D. Dimension

**1½ (40mm) sizes available.

Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

IPS Carbon Steel Pipe Grooved Valves Steel Pipe Nipples & Fittings

Brass Body Ball Valve (Series 722)

Nom Size Inches (mm)	Dimensions - Inches (mm)				Approx. Wgt. Each Lbs (kg)
	E-E A	Hgt. B	C	F	
1/4 (8)	1.54 (39)	0.77 (20)	1.03 (26)	1.65 (42)	0.2 (0.09)
3/8 (10)	1.77 (45)	0.88 (22)	1.28 (33)	3.07 (78)	0.3 (0.14)
1/2 (15)*	2.13 (54)	1.06 (27)	1.33 (34)	3.07 (78)	0.4 (0.18)
3/4 (20)*	2.44 (62)	1.22 (31)	1.79 (45)	3.78 (96)	0.7 (0.32)
1 (25)*	2.95 (75)	1.48 (37)	1.95 (50)	3.78 (96)	1.0 (0.45)
1 1/4 (32)*	3.31 (84)	1.65 (42)	2.17 (55)	3.78 (96)	1.5 (0.68)
1 1/2 (40)*	3.66 (93)	1.83 (46)	2.68 (68)	5.43 (138)	2.1 (0.95)
2 (50)*	4.21 (107)	2.11 (53)	2.89 (73)	5.43 (138)	2.4 (1.09)

*UL Listed, FM Approved as noted in text above.

Forged Steel Fittings

- Available in 90s, 45s, couplings, reducing bushings and reducing couplings
- 3000psi, 3000lb. rated
- Sizes 2, 2.5 and 3-inch.

Black Hydraulic Piping

We are proud to offer Black Hydraulic Pipe in a variety of constructions and sizes. Schedule 40 and Schedule 80 available from 2-inch to 3-inch. Standard delivery is in 20-foot sections. We will cut to length! (Other sizes available upon request.)

See page 5.14 for Cush Clamps.

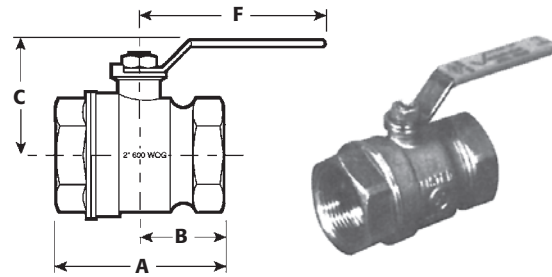
Rupture Valves

The rupture valve is designed to allow an elevator to decelerate comfortably, bringing the elevator to a smooth stop in cases where the down speed exceeds allowable limits due to failure in a cylinder line and/or pre-set allowable limits.

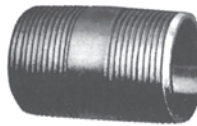
The rupture valve can be mounted in any position directly onto the cylinder inlet.

We conveniently stock rupture valves in all sizes. We make it easy to install as we offer a standard female connection with an NPT taper (also available in grooved).

Line Size	GPM	L/Min	PSI	Bar
3/4"	1.3-20	5-100	1500	100
1"	27-45	101-175	1500	100
1 1/2"	46-110	176-425	1500	100
2"	111-208	426-800	1500	100
2 1/2"	209-318	801-1225	1500	100
3"	319-546	1226-2100	1500	100

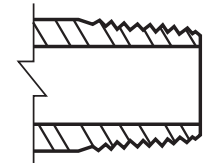


CLOSE

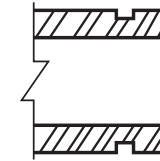


SHORT OR LONG

Standard Finishes



Tapered Pipe Thread (NPT)



Grooved

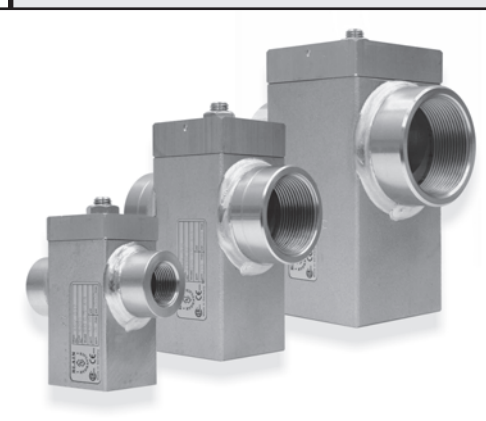
Identification

Where possible, each seamless pipe nipple is identified with the following:

- A trademark
- Seamless designation "SMLS"
- Pipe schedule STD or XS
- Material designation A106 B



Steel pipe nipples meet Federal Specification WWN 351



Questions? Answers at...

Western US: 866 CED-ELEV or 866-233-3538
Eastern US: 866-253-2915 or 860-256-2211

Notes



Questions? Answers at...
Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970
Full line catalog available upon request

MOTORS

In this Section

Submersible Elevator Motors. . . 20.2

DC Elevator Door Motor. 20.2



Questions? Answers at...

***Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429***

***Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970***

***or visit us online at
www.cedlevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!***

Full line catalog available on request

Submersible Motors Door Motors

Submersible Elevator Motors



Features:

- Class F insulation
- 90 starts per hour
- Foot mounted
- In conformity with cCSAus standard
- All motors are suitable for Wye-Delta starting if reduced starting current is desired.

Part Number	Frame	Hz	60	[HP]	Torque	Rated RPM	F.L. Voltage	Amps	F.L. Start	1 Wye-Delta	1 P.F.	EFF.	Weight (lbs.)
SB8/200							200	34.3	99.5	50.8	0.77	70	
SB8/230-460	SB150	8	16.4	3380	230	29.8	86.5	44.3	0.77	70	39.68		
					460	14.9	43.4	22.1	0.77	70			
SB10.5/200							200	41.3	120	60.3	0.80	72	
SB10.5/230-460	SB150	10.5	21.7	3400	230	35.9	115.4	57.2	0.80	72	46.29		
					460	18	53	26.3	0.80	72			
SB13/200							200	47.6	138	68.5	0.81	74	
SB13/230-460	SB150	13	26.7	3420	230	41.5	120.7	60	0.81	74	52.91		
					460	20.7	63	29.8	0.81	74			
SB15/200							200	55.7	151.3	79	0.82	74	
SB15/230-460	SB200	15	30.2	3490	230	48.7	141	69.1	0.82	74	85.97		
					460	24.5	73	34.4	0.82	74			
SB20/200							200	71.3	220	102	0.84	75	
SB20/230-460	SB200	20	41.1	3420	230	62.3	192	89.3	0.84	75	90.38		
					460	31	92	44.3	0.84	75			
SB25/200							200	87.2	261	127	0.87	75	
SB25/230-460	SB200	25	51	3440	230	79	236	112.9	0.87	75	90.36		
					460	37.9	109.9	54.2	0.87	75			
SB30/200							200	110.8	332	159.6	0.85	78	
SB30/230-460	SB200	30	61.6	3420	230	98	285	141.2	0.85	78	99.20		
					460	49	140	70	0.85	78			
SB40/200							200	137	405	198.6	0.85	78	
SB40/230-460	SB200	40	80.5	3490	230	119	357	172	0.85	78	110.22		
					460	60	182	87	0.85	78			
SB50/200							200	178.2	518	260	0.87	77	
SB50/230-460	SB250	50	101.2	3470	230	155	460	224.8	0.87	77	141.09		
					460	78	230	113.2	0.87	77			
SB60/200							200	199.8	595	890	0.85	78	
SB60/230-460	SB250	60	122.2	3450	230	174	517	252	0.85	78	194.00		
					460	87	254	134	0.85	78			
SB70/200							200	234	680	358	0.87	76	
SB70/230-460	SB250	70	143.8	3490	230	204	591	313	0.87	76	213.84		
					460	102	296	157	0.87	76			



MTR-0008N

GAL DC Elevator Door Motor

Part Number	HP	Voltage	Description
MTR-0008N	1/8	230DC-PM	2 wires
MTR-0009N	1/4	230DC-PM	2 wires

Operator model: MOD, MODCT, MODCTA, MODCTL, MODCTLVF, MODHFL, MODL, MODLNYC, Retiring Cam (RC1)

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

MOTOR CONTROL & DISTRIBUTION



Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

In this Section

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Bussman Power Module Switch	21.5
Heavy Duty Safety Switches. . .	21.6
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Replacement Contact Kits . .	21.7-13



Solid State Elevator Motor Starters

Application

The Siemens solid-state elevator starter consists of two main components: the solid-state starter and the fault contactor.

The solid-state starter provides current limit starting and overload protection for the elevator motor. The starter also monitors potential fault conditions: shorted SCR, overload, phase reversal, and loss of phase.

Should any of these conditions occur, the starter will turn off and the fault contactor will drop out. The fault contactor pulls in as soon as three phase power is applied to the starter. The contactor will remain in until three phase power is removed or a fault condition occurs.

Hydraulic Applications¹

Catalog Number	Figure	Wired "Inside-the-Delta"						Wired "In-Line" ²					
		In-Line Current (A)	200V (hp)	230V (hp)	400V (hp)	460V (hp)	575V (hp)	In-Line Current (A)	200V (hp)	230V (hp)	400V (hp)	460V (hp)	575V (hp)
72EG34AFP	1	22	5	7.5	10	15	—	—	—	—	—	—	—
72GG34AFP	1	35	7.5	10	20	25	—	18	—	5	7.5	10	—
72HG34AFP	1	42	10	15	25	30	—	22	5	7.5	10	15	—
72JG34AFP	1	55	15	20	30	40	—	28	7.5	10	15	20	—
72KG34AFP	1	68	20	25	40	50	—	35	7.5	10	20	25	—
72LG34AFP	1	80	25	30	50	60	—	42	10	15	25	30	—
72MG34AFP	1	105	30	40	60	75	—	55	15	20	30	40	—
72NG34AFP	1	130	40	50	75	100	—	68	20	25	40	50	—
72PG34AFP	1	157	50	60	100	125	—	80	25	30	50	60	—
72RD32AFP	3	252	75	100	—	—	—	130	40	50	—	—	—
72EG35AFP	1	22	—	—	10	15	20	—	—	—	—	—	—
72GG35AFP	1	35	—	—	20	25	30	18	—	—	7.5	10	15
72HG35AFP	1	42	—	—	25	30	40	22	—	—	10	15	20
72JG35AFP	1	55	—	—	30	40	50	28	—	—	15	20	25
72KG35AFP	1	68	—	—	40	50	60	35	—	—	20	25	30
72LG35AFP	1	80	—	—	50	60	75	42	—	—	25	30	40
72MG35AFP	2	105	—	—	60	75	100	55	—	—	30	40	50
72NG35AFP	2	130	—	—	75	100	125	68	—	—	40	50	60
72PG35AFP	2	157	—	—	100	125	150	80	—	—	50	60	75

¹ For traction applications, use the next highest rating in the Hydraulic table. For instance, a 10 HP, 230V, Inside-the-Delta, Traction application would require an elevator starter that is 15 HP in the Hydraulic table (72HE34AFP).

² Units are supplied from the factory with wiring for "Inside-the-Delta." Rewiring the unit for "In-Line" is simple and quick. Refer to the instruction manual.

*The Starts Per Hour rating is based on the number of times the motor starts. Since the motor runs only on "up" calls, the Calls Per Hour rating is twice the Starts Per Hour rating. For applications requiring 120 Starts Per Hour (240 Calls Per Hour) on Hydraulic Elevators, use a starter sized to the next larger motor rating. For example, for a 120 Starts Per Hour rating on a 40 HP motor use a 50 HP rated Elevator Starter.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Solid State Elevator Motor Starters

Features

- Selectable Motor Off Delay
- Fault Contactor Monitors:
 - Overload
 - Shorted SCR
 - Phase Reversal
 - Loss of Phase
- For use on 6 or 12 Lead Wye-Delta Wound Motors and for 3 Lead Motors
- Normal Condition Indicators:
 - Normal Forward Phase
 - Control Power On
 - Motor Run
 - Motor Up to Speed
- Fault Condition Indicators:
 - Motor Overload
 - Shorted SCR
 - Single Phase
- Copper/aluminum lugs are supplied with all units as standard.

Electrical Data

Operating Frequency

60 Hz-Hp rated, 50 Hz-kW rated

Input Voltage

+/- 15% of nominal voltage

Operating Temperature

0°C to 50°C (32°F to 122°F)
Derate 33% for each 10°C over 50°C to a maximum of 70°C

Overload Rating

Class 10–Solid-State Overload Relay,
Less than 10 second trip @ 600%
of must hold amps

Short Circuit Protection

Not provided: To be supplied by customer

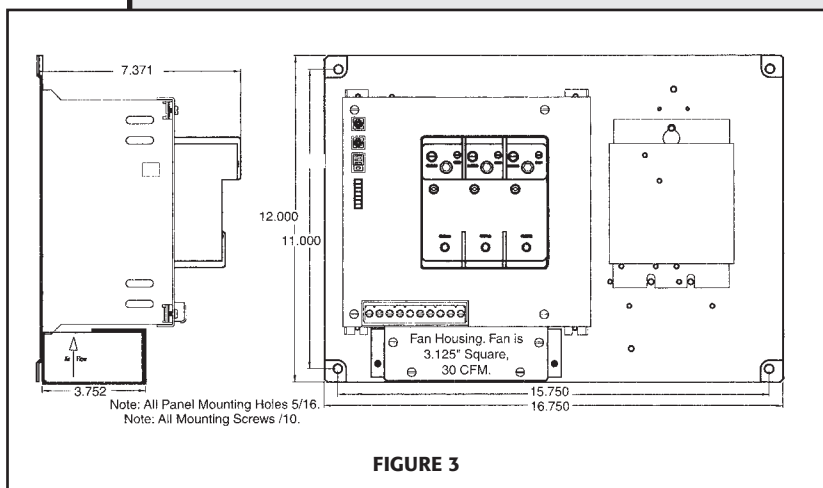
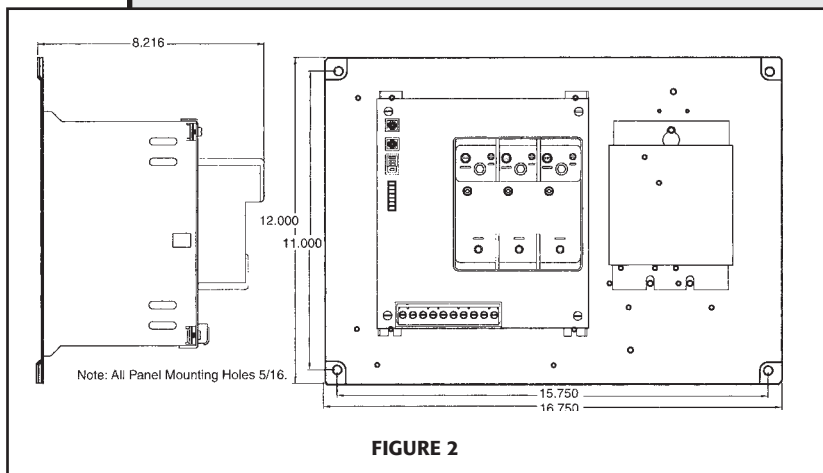
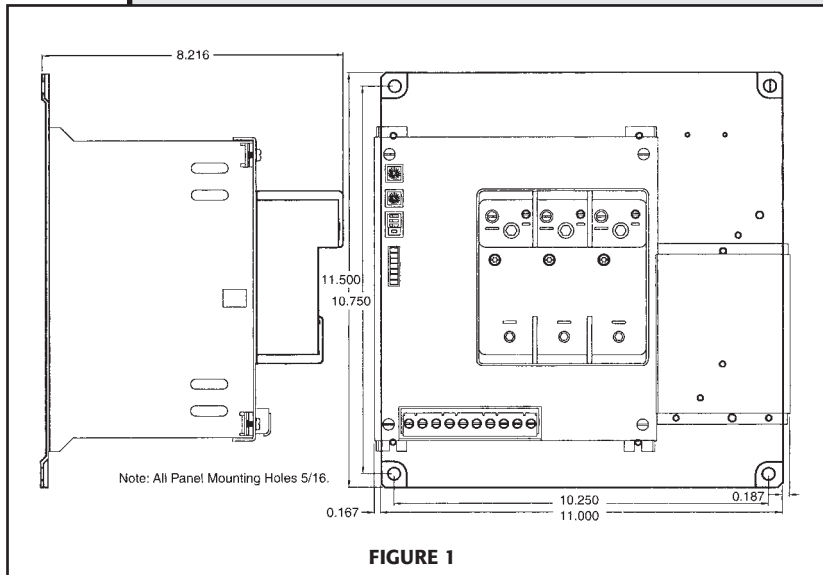
Controller Duty Cycle Rating

Hydraulic Elevator Duty: 30% Duty Cycle –
80 starts per hour* (160 calls per hour)
Traction Elevator Duty: 95% Duty Cycle
–10 starts per hour

Off Delay

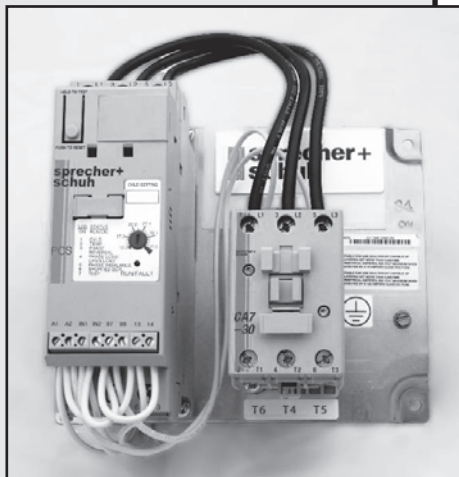
Approximately ½ sec after removal of
Motor Run signal when selected.
Approximately 30 milliseconds when not
selected

All diagram dimensions are in inches, and are for
reference only, not for construction.



Questions? Answers at...

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Elevator Softstarter

Part Number	DELTA Connected (6 Wire) H.P. Ratings				Overload Range	LINE Connected (3 Wire) H.P. Ratings				Overload Range
	3-PHASE 50/60 Hz					3-PHASE 50/60 Hz				
120VAC Control Voltage	208V	240V	480V	575V	(Amps)	208V	240V	480V	575V	(Amps)
PCEC-032-600V-120V/240V	10	10	20	30	10.9...32.9	5	5	10	15	6.3...19
PCEC-051-600V-120V/240V	15	15	30	40	17.3...51.9	7.5	10	20	25	10...30
PCEC-064-600V-120V/240V	20	20	40	60	21...64	10	10	25	30	12.3...37
PCEC-074-600V-120V/240V	20	25	50	60	25...74	10	15	30	40	14.3...43
PCEC-104-600V-120V/240V	30	40	75	100	84.6...104	15	20	40	50	20...60
PCEC-147-600V-120V/240V	40	50	100	150	50...147	25	30	60	75	28.3...85
PCEC-234-600V-120V/240V	75	75	150	200	59...234	40	50	100	125	34...135

Replacement Parts

PCEC Assembly	PCE Controller Only	PCE Fans	Fault Contactor	Fault Contactor Coils*	
				120vac	208 - 240vac
PCEC-032-600V-120V	PCEC-032-600V	PCV-064 (optional)	CA7-37-00-120	TC473	TC296
PCEC-051-600V-120V	PCEC-051-600V		CA7-37-00-120		
PCEC-064-600V-120V	PCEC-064-600V		CA7-37-00-120		
PCEC-074-600V-120V	PCEC-074-600V	PCV-147	CA7-43-00-120	TD473	TD296
PCEC-104-600V-120V	PCEC-104-600V		CA7-60-00-120	TE473	TE296
PCEC-147-600V-120V	PCEC-147-600V		CA7-85-00-120	TE473	TE296
PCEC-234-600V-120V	PCEC-234-600V		CA6-180-EI-11-120	CA6-TGE865	CA6-TGE866

* The PCE controller's control voltage operating range is 100-240vac. The coil voltage of the fault contactor determines the control voltage of the PCEC assembly.

Dimensions

Controller Sizes	Units	Width	Height	Depth	Approx. Weight
32 / 51 / 64	mm	178	144	115.7	4 lbs
	inch	7.01	5.67	4.56	
74 / 104 / 147	mm	240	225	147.9	14 lbs
	inch	9.45	8.86	5.82	
234	mm	362	515	216.4	51 lbs
	inch	14.25	20.28	8.52	

Sprecher & Schuh PCEC Hydraulic Elevator Softstarters

Thinking of replacing that old mechanical contactor with a softstarter but are concerned about it fitting...

The PCEC is much smaller than other commonly used softstarters. It's the ideal wye-delta contactor replacement because it typically fits within the existing contactor footprint. The PCEC is supplied mounted to a back panel but the components will also snap on a DIN rail.

Diagnostics:

- Overload
- Over temp protection
- Phase reversal
- Phase loss/open Load
- Phase imbalance
- Shorted SCR
- Test overload

Features:

- Selectable overload class, 10, 15, 20, off
- Phase imbalance selectivity
- LED diagnostic & run display
- ½-sec "hold-in" display
- "Up-to-speed" contact

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Power Module Switch

Power Module Switch

Available in switch combinations from 30 to 400 amps. All with shunt trip capabilities from a 120 volt control circuit.

Silver Alloy Contacts

Durable silver tungsten alloy contacts stand up to use, while providing superior conductivity. (Inside, not visible in photo.)

1. Safety Features

A cover interlock prevents the door from opening while the circuit is energized. The interlock can be overridden to permit testing or inspection with the switch in the ON position.

2. Handle Lock-Off

The rotary handle of the Bussmann Power Module can be locked in the OFF position with as many as three padlocks. When properly "locked-out," personnel are assured that load side power is de-energized.

3. UL Listed Shunt Trip Attachment

Standard on the 30 through 400 amp PS. All switches 600 volt rated.

4. Class J Fuse Clips are standard

Provides 200,000 RMS symmetrical amp fault interruption with the industry's ultimate protection for sensitive downstream components.

5. Visible Blades

No more guess work about whether the switch is ON or OFF. With one glance, you can see that circuit is open.

6. Electrically Welded Connections

Strong welded internal connections provide low resistance and low heat loss, while also ensuring long service life.

7. Control Power, Interfacing Relay Scheme Options

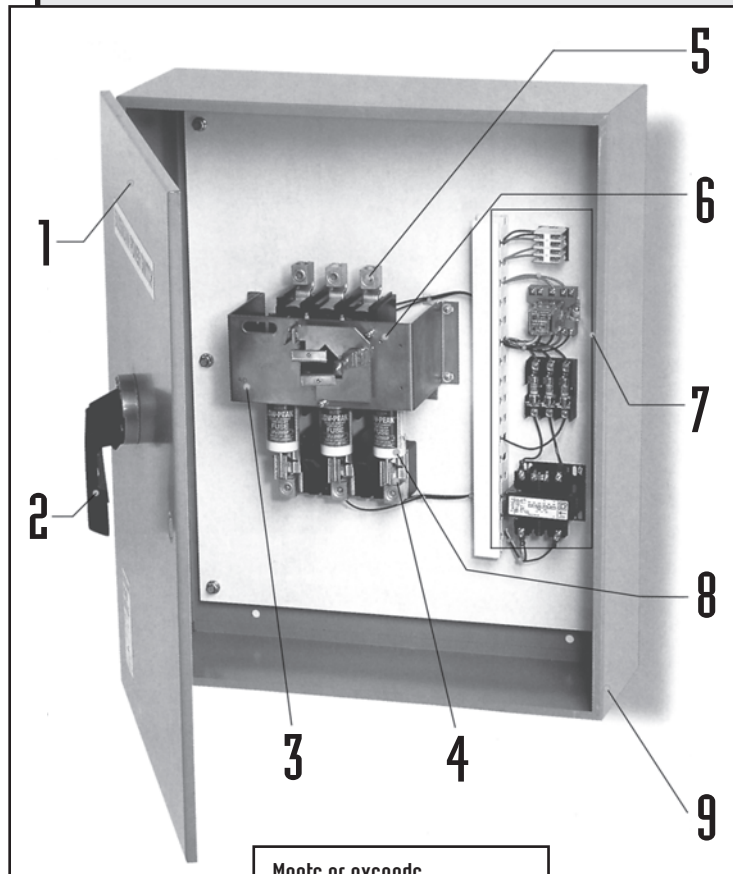
Available for fire safety and other critical performance needs.

8. High Pressure Fuse Holders

A high-tension spring applies pressure to both arms of the switch's integrated fuse holders to provide consistent contact and reduce resistance.

9. Enclosure

Standard: NEMA 1 Oversized
Optional: NEMA 3R, NEMA 12, NEMA 4



Meets or exceeds applicable standards:

Underwriters Laboratories

- UL50 – Enclosures
- UL98 – Enclosed Switches

Federal Specs

- WS-865C – Fused Switches

ASME/ANSI

- A17.1-1993 – Fire Safety Shutdown

NEC

- 620-51 (a-b)
- 620-62
- 645-10

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250 V Rated, 1Ø Phase & 3Ø Phase

Part Number	Part Number	Amp
1Ø Phase	3Ø Phase	
HF221N	—	30
HF222N	—	60
—	H323N	100
—	H324N	200

600 V Rated, 3Ø Phase

Part Number	Amp	Part Number	Amp
HF361N	30	HF363N	100
HF362N	60	HF364N	200

Lockout/Tagout Devices

Part Number	Description
IDEAL44785	Cleat for 277V Breaker Lockout
IDEAL44786	480/600V Lockout
IDEAL44789	Wall Switch Lockout
IDEAL44807	480/600V Multi-Pole Breaker Lockout
IDEAL44809	Universal 277V SP Breaker Lockout
IDEAL44810	Hinged 1-Pole Breaker Lockout
CSRK436	Combination Padlock
PANPSL1	Padlock Hasp, 1" Jaw w/Overlapping Tabs
ED602	Padlock Hasp, 1" Jaw without Tabs
PANPVT57Q	Lockout Tag "Locked to protect workman repairing machinery." 25pk



Heavy Duty Safety Switches

UL (NEMA) Type 1
General Purpose

- Indoor use
- Heavy duty and general duty versions
- Made of code gauge steel given a rust-inhibiting treatment
- Provided with three- or four-point latching door
- Switches rated through 200 amperes provided with ample knockouts
- Switches rated 400 through 1200 amperes provided without knockouts
- Front-operated handles and narrow cover width to allow switches from 30 through 200 amperes to be mounted adjacent to one another
- 60-ampere heavy duty switch provided with a HUBBELLOCK®, Appleton or ARKTITE® interlocked receptacle to permit direct load/switch connection and disconnection
- Electrical interlock installable on heavy duty switches through 600 amperes


TYPE 1
UL (NEMA) Type 3R
Rainproof

- Outdoor use
- Available in ratings through 1200 amperes
- Made of galvanized sheet steel given a rust-inhibiting treatment. Gray electro-deposited enamel finish
- Top-hinged cover securable in the open position
- Factory-installed B-cap for immediate closure when no top conduit connection will be made
- Provisions for interchangeable bolt-on B-hubs that can be threaded onto conduit through the top endwall, eliminating the need for heavy conduit junctions
- Extruded lip on top endwall opening eliminates the need for gasketing to ensure tight closure
- Tangential openings for conduit eliminate need for offsets and bends
- Blank top endwalls on enclosures of switches rated above 200 amperes
- Enclosures of switches rated up to 200 amperes are provided with knockouts—below the level of the lowest live parts to maintain the integrity of the rainproof design
- Electrical interlock installable on heavy duty switches through 600 amperes


TYPE 3R
Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Replacement Contact Kits

CED is your source for quality, low cost replacement contact kits for the following manufacturers...

ASEA Brown Boveri	Allen Bradley	Arrow Hart
Cutler-Hammer	Federal Pacific	Furnas
General Electric	Joslyn-Clark	Siemens-Allis
Sprecher + Schuh	Square "D"	Ward Leonard
Westinghouse	Telemecanique (ITE/Gould)	

ABB — General Purpose

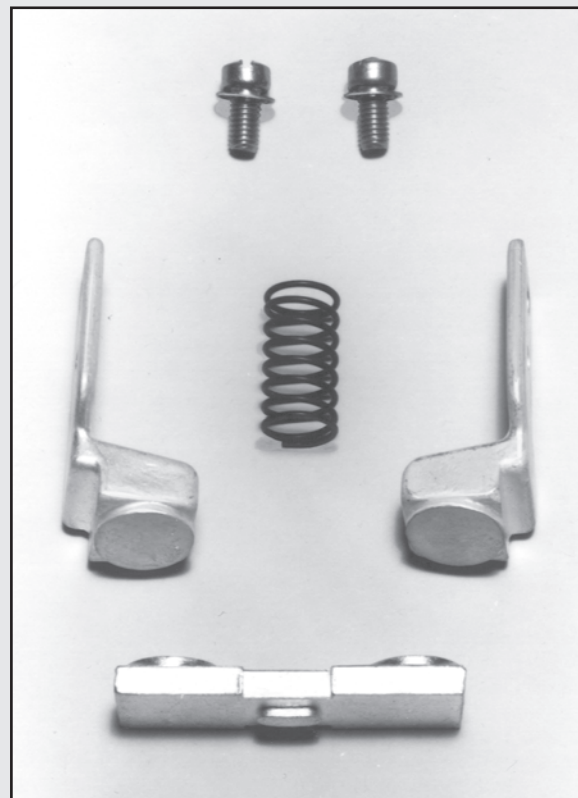
OEM Number	Replacement Number	Description
EG801CK	9233CB	Size 3, 3 pole
EG80CK2P	K632	Size 3, 2 pole
EG1601CK	9243CB	Size 4, 3 pole
EG160CK2P	K642	Size 4, 2 pole
EG3151CK	9253CB	Size 5, 3 pole
EG315CK2P	K652	Size 5, 2 pole
EG60302CK	9263CB	Size 6, 3 pole
EG630CK2P	K662	Size 6, 2 pole
EG900CK	9273CB	Size 7, 3 pole

ABB — Drive Contactors

OEM Number	Replacement Number	Description
EFLG80CK	9333CB	110 amp, 3 pole
EFLG80CK2P	K932	110 amp, 2 pole
EFLG160CK	9343CB	180 amp, 3 pole
EFLG160CK2P	K942	180 amp, 2 pole
EFLG280CK	9353CB	280 amp, 3 pole
EFLG280CK2P	K952	280 amp, 2 pole
EFLG315CK	9363CB	360 amp, 3 pole
EFLG315CK2P	K962	360 amp, 2 pole
EFLG630CK	9373CB	535 amp, 3 pole
EFLG630CK2P	K972	535 amp, 2 pole

Allen-Bradley — Series K

OEM Number	Replacement Number	Description
Z-21101	K156	Size 00, 2 pole
Z-21102	K157	Size 00, 3 pole
Z-21103	9194CA	Size 00, 4 pole
Z-34037	9101CA	Size 0, 1 pole
Z-34038	9111CA	Size 1, 1 pole
Z-34039	9121CA	Size 2, 1 pole
Z-34040	9131CA	Size 3, 1 pole
Z-34041	9141CA	Size 4, 1 pole
Z-34042	9151CA	Size 5, 1 pole
Z-34043*	9351CA	Size 5, 1 pole



Certificate of Conformance

Hoyt Corporation certifies that its contacts are equal to OEM contacts in form, fit and function and meet or exceed our quality specifications of the OEM part. Hoyt further certifies that its contacts are being manufactured for the commercial market as an equivalent.

Questions? Answers at...

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Replacement Contact Kits

ABB — Drive Contactors

OEM Number	Replacement Number	Description
EFLG80CK	9333CB	110 amp, 3 pole
EFLG80CK2P	K932	110 amp, 2 pole
EFLG160CK	9343CB	180 amp, 3 pole
EFLG160CK2P	K942	180 amp, 2 pole
EFLG280CK	9353CB	280 amp, 3 pole
EFLG280CK2P	K952	280 amp, 2 pole
EFLG315CK	9363CB	360 amp, 3 pole
EFLG315CK2P	K962	360 amp, 2 pole
EFLG630CK	9373CB	535 amp, 3 pole
EFLG630CK2P	K972	535 amp, 2 pole

ABB — General Purpose

OEM Number	Replacement Number	Description
EG801CK	9233CB	Size 3, 3 pole
EG80CK2P	K632	Size 3, 2 pole
EG1601CK	9243CB	Size 4, 3 pole
EG160CK2P	K642	Size 4, 2 pole
EG3151CK	9253CB	Size 5, 3 pole
EG315CK2P	K652	Size 5, 2 pole
EG60302CK	9263CB	Size 6, 3 pole
EG630CK2P	K662	Size 6, 2 pole
EG900CK	9273CB	Size 7, 3 pole

Allen-Bradley — Series A

OEM Number	Replacement Number	Description
X-33977	6802CA	Size 0, Short Stationary
X-35162	6801CA	Size 0, Long Stationary
X-33553	1010CA	Size 0, Movable
X-33519	6804CA	Size 1 & 1P, Short Stationary
X-35163	6803CA	Size 1 & 1P, Long Stationary
X-33552	1011CA	Size 1 & 1P, Movable
X-36702	6805CA	Size 2, Stationary

OEM Number	Replacement Number	Description
X-36670	1012CA	Size 2, Movable
X-36703	6806CA	Size 3, Stationary
X-36671	1013CA	Size 3, Movable
X-67541	6807CA	Size 4, Stationary
X-119624	1014CA	Size 4, Movable
X-98909	6808CA	Size 5, Stationary
X-104555	1015CA	Size 5, Movable

Allen-Bradley — Series K

OEM Number	Replacement Number	Description
Z-21101	K156	Size 00, 2 pole
Z-21102	K157	Size 00, 3 pole
Z-21103	9194CA	Size 00, 4 pole
Z-34037	9101CA	Size 0, 1 pole
Z-34038	9111CA	Size 1, 1 pole

OEM Number	Replacement Number	Description
Z-34039	9121CA	Size 2, 1 pole
Z-34040	9131CA	Size 3, 1 pole
Z-34041	9141CA	Size 4, 1 pole
Z-34042	9151CA	Size 5, 1 pole
Z-34043*	9351CA	Size 5, 1 pole

Aromat

OEM Number	Replacement Number	Description
BM6-35-901	9823CLX	Size 1++, 3 pole
BM6-50-901	9823CLX	Size 2+, 3 pole
BM6-65-901	9853CLX	Size 2++, 3 pole
BM6-80-901	9853CLX	Size 3, 3 pole

OEM Number	Replacement Number	Description
BM6-85-901	9853CLX	Size 3+, 3 pole
BM6-125-901	9863CLX	Size 3++, 3 pole
BM-160-901	9883CLX	Size 4+, 3 pole
BM6-190-901	9883CLX	Size 4++, 3 pole

Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Replacement Contact Kits

Cutler-Hammer — Series A1

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
6-23	K705	Size 1, 2 pole	6-25-2	9133CC	Size 3, 3 pole
6-23-2	9113CC	Size 1, 3 pole	6-26	K730	Size 4, 2 pole
6-23-3	K707	Size 1, 4 pole	6-26-2	9143CC	Size 4, 3 pole
6-23-4	K708	Size 1, 5 pole	6-27	K735	Size 5, 2 pole
6-24	K710	Size 2, 2 pole	6-27-2	9153CC	Size 5, 3 pole
6-24-2	9123CC	Size 2, 3 pole	6-28	K738	Size 6 & 7, 2 pole
6-25	K720	Size 3, 2 pole	6-28-2	9163CC	Size 6 & 7, 3 pole

Cutler-Hammer — Series B1

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
6-34	K712	Size 2, 2 pole	6-35-2	9233CC	Size 3, 3 pole
6-34-2	9223CC	Size 2, 3 pole	6-36	K732	Size 4, 2 pole
6-34-3	K714	Size 2, 4 pole	6-36-2	9243CC	Size 4, 3 pole
6-34-4	K715	Size 2, 5 pole	6-36-3	K728*	Size 4, 2 pole
6-35	K722	Size 3, 2 pole	6-36-4	K729*	Size 4, 3 pole

*Kits supplied without contact bar.

Cutler-Hammer — Freedom Series, IEC

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
6-65-4	9823CC	Size G, 3 pole	6-65-2	9813CC	Size 1, 3 pole
6-65-6	9893CC	Size H, 3 pole	6-65-8	9823CC	Size 2, 3 pole
6-65-8	9823CC	Size J, 3 pole	6-43-2	9833CC	Size 3, 3 pole
6-65-17	9823CC	Size K, 3 pole	6-44-2	9843CC	Size 4, 3 pole
6-43-4	9833CC	Size L, 3 pole	6-45-2	9853CC	Size 5, 3 pole
6-43-2	9833CC	Size M, 3 pole			
6-43-6	9733CC	Size N, 3 pole			

Freedom Series, NEMA

Furnas — Innova 45 Series

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
75DF14	9210CF	Size 1, 1 pole	75FB14A	9120CF	Size 2, 1 pole
75EF14	9215CF	Size 1¾, 1 pole	75GB14	9125CF	Size 2½, 1 pole
75FF14	9220CF	Size 2, 1 pole	75HB14	9130CF	Size 3, 1 pole
75FP14	9320CF	Size 2, 1 pole	75IB14	9135CF	Size 3½, 1 pole
75GF14	9225CF	Size 2½, 1 pole	75JB14	9140CF	Size 4, 1 pole
75GP14	9325CF	Size 2½, 1 pole	75RB14	9145CF	Size 4½, 1 pole
75HF14	9230CF	Size 3, 1 pole	75KB14	9150CF	Size 5, 1 pole
75IF14	9235CF	Size 3½, 1 pole			

Furnas — Model B

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Replacement Contact Kits

General Electric — 100, 200 & 300 Line

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
232A6724G009	9763CG	Size 6, 3 pole	546A780G051	9723CG	Size 2, 3 pole
232A6724G011	K435	Size 6, 2 pole	55153677G001	K403	Size 3, 1 pole
546A300G002	9704CG	Size 0, 4 pole	55153677G002	9733CG	Size 3, 3 pole
546A300G010	K420	Size 0, 4 pole	55153678G002	9743CG	Size 4, 3 pole
546A301G002	9714CG	Size 1, 4 pole	55154607G002	9753CG	Size 5, 3 pole
546A301G053	9714CG	Size 1, 4 pole	55154607G041	9753CG	Size 5, 3 pole
546A780G002	9723CG	Size 2, 3 pole	55186556G004	9753CGA	Size 6, 3 pole

General Electric — Spectra 700 series

OEM Number	Replacement Number	Description
CR7XDG	9313CG	3 Pole, 37 amp, CR7CG
CR7XDH	9313CG	3 Pole, 45 amp, CR7CH
CR7XDJ	9323CG	3 Pole, 56 amp, CR7CJ
CR7XDK	9323CG	3 Pole, 73 amp, CR7CK
CA5F2CPR1	9323CG	3 Pole, 105 amp, CA5F2

ITE — Gould

OEM Number	Replacement Number	Description
G203C	K351	Size 1 & 1P, 3 pole
G203D	K352	Size 2, 3 pole
G203E	K353	Size 3, 3 pole
G203F	K354	Size 4, 3 pole
G203G	K355	Size 5, 3 pole

Joslyn Clark — Sylvania, CY Series

OEM Number	Replacement Number	Description
CY-31-1	9413CD	Size 1, 3 pole
CY-32-1	9423CD	Size 2, 3 pole
CY-33-1	9433CD	Size 3, 3 pole
CY-34-1	9443CD	Size 4, 3 pole
CY-43-1	K116	Size 3, 4 pole
CY-44-1	K121	Size 4, 4 pole

Clark, TM Series

OEM Number	Replacement Number	Description
KTM25-1	K785	Size 5, 2 pole
KTM31-1	9583CD	Size 00, 0 & 1, 3 pole
KTM32-1	9523CD	Size 1P & 2, 3 pole
KTM33-1	9533CD	Size 3, 3 pole
KTM34-1	9543CD	Size 4, 3 pole
KTM35-1	9553CD	Size 5, 3 pole

Mitsubishi

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
BH509301	n/a	3 Pole, S-K10	BH569N301	9163CX	3 Pole, S-K95
BH509N301	n/a	3 Pole, S-K11	BH569N302	9253CX	3 Pole, SD-K80
BH519N304	n/a	3 Pole, S(D)K10, S-K12	BH569N303	9263CX	3 Pole, SD-K95
BH529N301	9103CX	3 Pole, S-K18, K19	BH579N301	9173CX	3 Pole, S-K125
BH539N300	9203CX	3 Pole, BH539N300 S(D)K13	BH579N304	n/a	3 Pole, SD-K125
BH549N300	9113CX	3 Pole, S-K25	BH589N300	n/a	3 Pole, S(D)K150
BH549N301	9213CS	3 Pole, S(D)K35	BH599N300	n/a	3 Pole, S-K50
BH559N301	9243CX	3 Pole, S-K65	BH599N300	n/a	3 Pole, S(D)K220
BH559N302	9233CX	3 Pole, SD-K50	BH599N301	n/a	3 Pole, S-K180
BH559N303	9243CX	3 Pole, SD-K65	BH609N300	n/a	3 Pole, S(D)K300
BH559N306	9123CX	3 Pole, S-K38	BH609N301	n/a	3 Pole, S(D)K400
BH559N307	9223CX	3 Pole, S-K48	BH619N300	n/a	3 Pole, S-K600
BH569N300	9153CX	3 Pole, S-K80	BH619N301	n/a	3 Pole, S-K800

Questions? Answers at...

Replacement Contact Kits

Siemens-Allis — Value Line

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
25-106-921-812	9114CV	Size 1, 4 Pole	14-124-454-001	n/a	Size 4+, 1 Pole
25-106-922-812	9123CV	Size 2, 3 Pole	14-125-864-001	n/a	Size 5, 1 Pole
25-106-923-812	9133CV	Size 3, 3 Pole	14-133-172-001	n/a	Size 6, 1 pole
25-106-924-812	9143CV	Size 4, 3 Pole			

Siemens-Allis — World Series — AC Contactors

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
3TY6440-OA	9503CV	Size 1, 3 Pole, 3TB Series	3TY7470-OA	9723CV	Size 2½, 3 Pole, 3TF Series
3TY6460-OA	9513CV	Size 2, 3 Pole, 3TB Series	3TY7480-OA	9733CV	Size 3, 3 Pole, 3TF Series
3TY6470-OA	9523CV	Size 2½, 3 Pole, 3TB Series	3TY7500-OA	9753CV	Size 3½, 3 Pole, 3TF Series
3TY6480-OA	9533CV	Size 3, 3 Pole, 3TB Series	3TY7520-OA	n/a	Size 4, 3 Pole, 3TF Series
3TY6500-OA	9543CV	Size 3½, 3 Pole, 3TB Series	3TY7520-OB	n/a	Size 4, 3 Pole, 3TF Series
3TY6520-OA	9553CV	Size 4, 3 Pole, 3TB Series	3TY7540-OA	9763CV	Size 4½, 3 Pole, 3TF Series
3TY6540-OA	9563CV	Size 4½, 3 Pole, 3TB Series	3TY7540-OB	n/a	Size 4½, 3 Pole, 3TF Series
3TY6560-OA	9573CV	Size 5, 3 Pole, 3TB Series	3TY7560-OA	9733CV	Size 5, 3 Pole, 3TF Series
3TY6580-OA	9583CV	Size 6, 3 Pole, 3TB Series	3TY7560-OB	n/a	Size 5, 3 Pole, 3TF Series
3TY7440-OA	9703CV	Size 1, 3 Pole, 3TF Series	3TY7580-OA	9883CV	Size 6, 3 Pole, 3TF Series
3TY7460-OA	9713CV	Size 2, 3 Pole, 3TF Series			

* Kits supplied with all hardware except elastic spring retainer

Sprecher & Schuh

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
22.102.217-03	n/a	Sizes 0 & 00, 3 Pole, CA1-10	22.105.212-03	9243CR	Size 4½, 3 Pole, CA1-150
22.109.212-02	9113CR	Sizes 1 & 1¾, 3 Pole, CA1-14 & 16	22.106.212-02	9153CR	Size 5, 3 Pole, CA1-250
22.110.212-02	9123CR	Size 2, 3 Pole, CA1-25	22.701.214-01	9433CR	Size 1, 3 Pole, CA3-37
22.114.212-02	9223CR	Size 2½, 3 Pole, CA1-40	22.701.215-01	9433CR	Size 2, 3 Pole, CA3-43
22.104.212-04	9133CR	Size 3 & 3½, 3 Pole, CA1-55/60	22.701.216-01	9433CR	Size 2½, 3 Pole, CA3-60
22.104.212-06	9143CR	Size 4, 3 Pole, CA1-100	22.701.217-01	9433CR	Size 2¾, 3 Pole, CA3-72

Questions? Answers at...

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Replacement Contact Kits

Square D — Class 9998

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
HA-81	9563CS	Size 6, 3 pole	SL-9	9743CS	Size 4, 3 pole
HA-82	9663CS	Size 6, 3 pole	SL-10	K550	Size 5, 2 pole
JA-81	9673CS	Size 7, 3 pole	KA-81	K558	Size 8, 3 pole
HC-1	9948CS	Size 1, 2 pole	SL-11	9753CS	Size 5, 3 pole
HD-1	9941CS	Size 2, 2 pole	SL-12	K506	Size 00 & 0, 4 pole
HE-1	9951CS	Size 3, 2 pole	SL-13	K515	Size 1, 4 pole
HF-1	9952CS	Size 4, 2 pole	SL-14	K525	Size 2, 4 pole
HG-1	9953CS	Size 5, 2 pole	CA81	9613CS	Size 1, 3 pole
HH-1	9954CS	Size 6, 1 pole	CA82	K514	Size 1, 4 pole
SL-2	9703CS	Size 00 & 0, 3 pole	SA81	9513CS	Size 1, 3 pole
SL-3	9713CS	Size 1 & 1P, 3 pole	SA82	K513	Size 1, 4 pole
SL-4	9723CS	Size 2, 3 pole	TA81	9623CS	Size 2, 3 pole
SL-6	K530	Size 3, 2 pole	TA82	K524	Size 2, 4 pole
SL-7	9733CS	Size 3, 3 pole	UA81	9633CS	Size 3, 3 pole
SL-8	K540	Size 4, 2 pole			

Telemecanique

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
G203C	9813CT	Size 1, 3 Pole, Gould/ITE	LA5-FG431	9423CT	3 Pole, LC1F185 Series
G203D	9823CT	Size 2, 3 Pole, Gould/ITE	LA5-FH431	9433CT	3 Pole, LC1F265 Series
G203E	9833CT	Size 3, 3 Pole, Gould/ITE	LA5-FJ431	9453CT	3 Pole, LC1FJ43 Series, 300 amp
G203F	9843CT	Size 4, 3 Pole, Gould/ITE	LA5-FK431	9463CT	3 Pole, LC1FK43 Series, 540 amp
G203G	9853CT	Size 5, 3 Pole, Gould/ITE	LA5-FL431	9473CT	3 Pole, LC1FL43 Series, 900 amp
LA5-FF431	9413CN	3 Pole, LC1F115-F150 Series	LA5-F400803	9453CN	3 Pole, LC1F330-F400 Series

Ward Leonard — Series 5000 DP, 5999, 7400, 5950, 5960

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
5M45	K930	Size 5, 1 pole	5M53	9130CY	Size 3, 1 pole
5M49	9134CY	Size 3 & 4, 1 pole	5M54	9130CY	Size 4, 1 pole
5M52	9120CY	Size 2, 1 pole	5M56	9145CY	Size 4½, 1 pole

Questions? Answers at...

Replacement Contact Kits

Westinghouse — Type A200, N & NF, Ampgard, M & MD, APC

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
1605202	9123CW	Size 2, 3 pole	373B331G11	9222CW	Size 2, 2 pole
1605212	9113CW	Size 1, 3 pole	373B331G12	9223CW	Size 2, 3 pole
1620145	9152CW	Size 5, 2 pole	373B331G13	9224CW	Size 2, 4 pole
1620146	9153CW	Size 5, 3 pole	373B331G14	9225CW	Size 2, 5 pole
1625563	9133CW	Size 3, 3 pole	373B331G18	9294CW	Size 00, 4 pole
1625564	9143CW	Size 4, 3 pole	461A757G17	9271CW	Size 7, 1 pole
180C180G01	K127	35 amp, 2 pole	477B477G01	K001	Size 5, 1 pole
180C180G02	9503CW	35 amp, 3 pole	477B477G03	K006	Size 5, 1 pole
180C180G05	K129	100 amp, 2 pole	477B477G05	9251CW	Size 5, 1 pole
180C180G06	9513CW	100 amp, 3 pole	477B477G06	K120	Size 5, 1 pole
2066A10G11	9261CW	Size 6, 1 pole	5250C81G01	K124	Size 4, 2 pole
2147A22G01	9643CW	200 amp, 3 pole	5250C81G16	K124	Size 4, 2 pole
2147A42G01	9663CW	400 amp, 3 pole	5250C81G02	K125	Size 4, 3 pole
2147A72G01	9673CW	700 amp, 3 pole	5250C81G17	9243CW	Size 4, 3 pole
2147A72G02	9673CW	700 amp, 3 pole H.D.	626B187G12	9232CW	Size 3, 3 pole
217A700G15	9761CW	Size 6, 1 pole	626B187G13	9233CW	Size 3, 3 pole
2184A10G14	9521CW	10/150 amp, 1 pole	626B187G14	9234CW	Size 3, 4 pole
26D261G14	9401CW	100/150 amp, 1 pole	626B187G15	9235CW	Size 3, 5 pole
26D261G15	9411CW	300 amp, 1 pole	626B187G16	9242CW	Size 4, 2 pole
26D261G16	9421CW	900 amp, 1 pole	626B187G17	9243CW	Size 4, 3 pole
26D261G18	9431CW	1350 amp, 1 pole	626B187G18	9244CW	Size 4, 4 pole
26D261G19	9481CW	1350 amp, 1 pole	626B187G19	9245CW	Size 4, 5 pole
26D261G20	9441CW	2500 amp, 1 pole	646C829G05	9281CW	Size 8, 1 pole
26D261G21	9451CW	100/150 amp, 1 pole	672B788G03	K081	Size 2½, 5 pole
26D261G22	9461CW	300 amp, 1 pole	672B788G09	9703CW	Size 2½, 3 pole
26D261G23	9471CW	900 amp, 1 pole	672B839G01	K077	250 amp, 2 pole DP Model A
26D261G24	9771CW	900 amp, 1 pole	672B839G02	9707CW	250 amp, 3 pole DP Model A
373B331G04	9204CW	Size 0, 4 pole	672B839G21	K075	250 amp, 2 pole DP Model B
373B331G07	9212CW	Size 1, 2 pole	672B839G22	9709CW	250 amp, 3 pole DP Model B
373B331G09	9214CW	Size 1, 4 pole			

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MOTOR GENERATOR FILTERS

In this Section

Motor Generator Filters 22.2-3



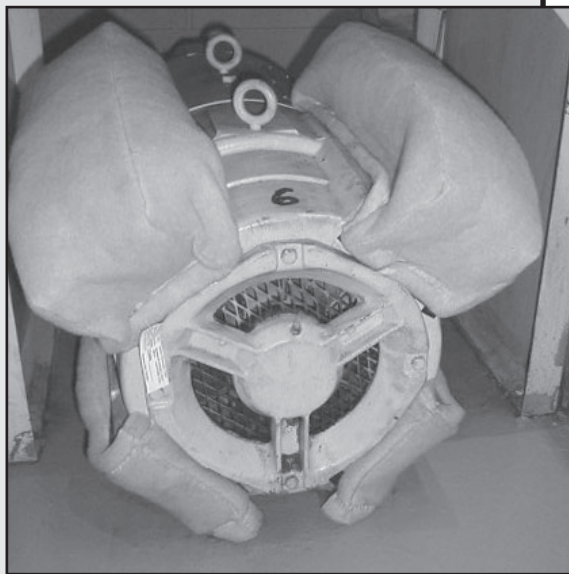
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NEW CLEAN INSTALLATION (IMPERIAL 366)



AFTER 6 WEEKS, WITH NORMAL BRUSH WEAR

Motor Generator Filters

**"A simple, cost-effective solution
to a complicated problem"**

Eliminate expensive carbon dust cleanup

These filters eliminate the need for carbon dust cleanup, and help to promote customer satisfaction.

Cut down on call backs

Many of the callbacks for circuit board failure and leveling problems are due to shorts or fouling by carbon dust.

No heat build-up

All Sanders Filters have been designed to operate with zero temperature increase, even fully loaded.

Self extinguishing

These filters have passed a #302 automotive test for flammability.

Complete system

Sanders, Inc. offers 105 different filters systems designed specifically for each motor generator frame size and configuration, in conjunction with the two largest elevator manufacturers. These systems are specified as OEM parts and are currently in use in their service contracts. These Carbon Dust Filtration Systems have had thousands of successful installations over the last 10 years.

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Motor Generator Filters

Problem:

As brushes wear, MG sets exhaust residual carbon from the process. The original designs of the MG sets did not account for this exhausting and made no provision for it. MG sets from all the major manufacturers have a fixed armature speed and fan curve designed to the cool the MG set, without any restriction of the airflow.

Carbon dust is made up of very small particles that can permeate circuit boards, shorting them out, foul 440 contacts, causing call backs due to leveling problems in elevators, and migrate through HVAC systems to adjacent areas of the building on the same system. In order to source-capture the carbon before it contaminates the adjacent area, a filter is required that traps the particles but does not restrict the cooling air, thereby overheating the MG set.

Solution:

The Sanders Carbon Dust Filtration System uses an extended surface cube that allows air to pass through without restriction, as if the filter wasn't even there. All filters have been individually designed, tested and thermo-scanned during normal use to insure a zero temperature increase, fully loaded with carbon dust.*

The complete system includes a custom designed set of filters and a bag for blowing out the carbon dust from the MG set before installing the filters.

*Follow manufacturer's recommended change schedule, average 3 months.

Design:

All Sanders motor generator filters are heat-sealed, creating a plastic stay that assures the filters will hold their shape, allowing for proper airflow without overheating the MG set. All are tagged to record installation date and the recommended change schedule. Sanders has identified 137 different motor generator frames, and is continually adding new sets. **If you do not see the MG set you need listed, please contact CED.**

Product Listing by Frame Number

Dover

Part Number	Filter(s)
D2500AC	1 cube
D2500DC	1 cube
D3500AC	1 cube
D3500DC	1 cube
D750	4 cubes
D36504	1 cube

General Electric

Part Number	Filter(s)
95	4 cubes, 1 panel

Imperial

Part Number	Filter(s)
I280T	2 cubes, 2 panels
I284A	2 cubes, 2 panels
I286A	2 cubes, 2 panels
I320T	2 cubes, 2 panels
I324T	2 cubes, 2 panels
I326	2 cubes, 2 panels
I360T	2 cubes, 2 panels
I365	2 cubes
I366	2 cubes, 2 panels
I367T	2 cubes
I368	2 cubes, 2 panels
I407A	2 cubes
I409A	2 cubes
ID37YT	2 cubes

Leroy Summers

Part Number	Filter(s)
LS46	wrist band
LS64	wrist band
LS280	wrist band
LS375	wrist band
LS500	wrist band
LS50 rev	1 end cube
LS57 rev	1 end cube

Otis

Part Number	Filter(s)
O71	1 cube
O82	1 cube
O95	1 crescent cube
O115	1 cube

Westinghouse

Part Number	Filter(s)
W44	4 cubes
W44BH	4 cubes
W45	4 cubes
W46	1 wrist band
W63A	4 cubes
W63AH	4 cubes
W63AY	4 cubes
W63.9	4 cubes
W63-9A	4 cubes
W66-9A	4 cubes
W64	1 wrist band
W64AY	4 cubes
W113-7.5	4 cubes
W113-10.5	4 cubes
W123	4 cubes
W143	4 cubes
W153	4 cubes
W286A	4 cubes, 1 panel
W405	4 cubes
W444	4 cubes, 1 panel
W444L	4 cubes, 1 panel
W444A	4 cubes, 1 panel
W587	4 cubes, 1 panel
W685A	4 cubes, 1 panel
W2810A	4 cubes, 1 panel
W360-9	1 wrist band
W3609L	1 wrist band
W3609.5	4 cubes, 1 panel
W3609A	4 cubes, 1 panel
W5010A	4 cubes, 1 panel
W5012A	4 cubes, 1 panel
W5014A	4 cubes, 1 panel

Westinghouse Exciters

Part Number	Filter(s)
W256E	4 cubes, 1 panel
W444E	4 cubes, 1 panel
W3609E	4 cubes, 1 panel

All Styles

Part Number	Filter(s)
Small Bag	B15
Medium Bag	B18
Large Bag	B40
Velcro	V 25'

Questions? Answers at...

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MUFFLERS & COUPLINGS

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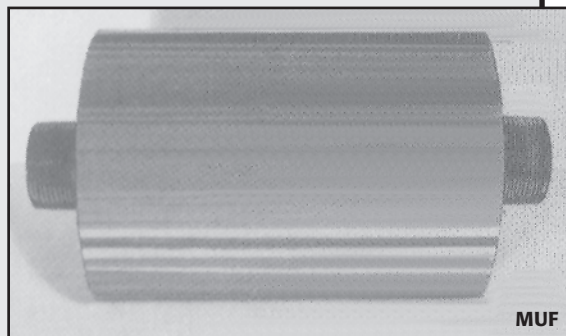
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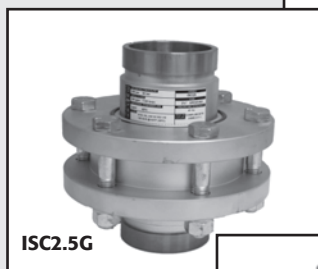
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MUF



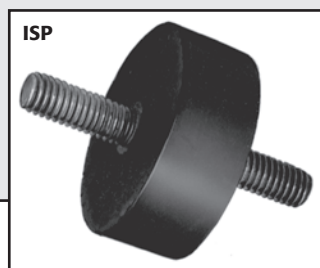
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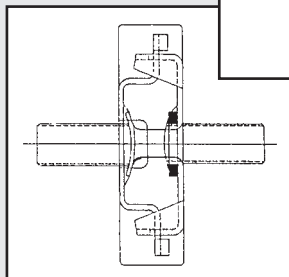
ISC2.5G



ISC2G



ISP



Mufflers & Couplings

Mufflers

Quality mufflers operate with maximum efficiency to minimize noise under all conditions. Easily installed, quality construction with maintenance-free operation.

- Dimensions: 8 $\frac{3}{8}$ " D x 18" O.A.L. Weight: 58 lbs.

Part Number	Description
MUF-2G	2" grooved
MUF-2.5G	2 $\frac{1}{2}$ " grooved
MUF-3G	3" grooved
MUF-1.5	1 $\frac{1}{2}$ " threaded
MUF-2	2" threaded
MUF-2.5	2 $\frac{1}{2}$ " threaded
MUF-3	3" threaded

Smaller Diameter Mufflers

Lighter weight. Composed of sound deadening compound with a compression-resistant core.

Part Number	Description	Dimensions	Weight
MUFS-2G	2" grooved	4"D x 20" O.A.L.	25 lbs.
MUFS-2.5G	2 $\frac{1}{2}$ " grooved	4"D x 20" O.A.L.	25 lbs.
MUFS-3G	3" grooved	6"D x 20" O.A.L.	40 lbs.
MUFS-2	2" threaded	4"D x 20" O.A.L.	25 lbs.
MUFS-2.5	2 $\frac{1}{2}$ " threaded	4"D x 20" O.A.L.	25 lbs.
MUFS-3	3" threaded	6"D x 20" O.A.L.	40 lbs.

Isolation Coupling

- Reduces mechanically transmitted noise between power unit and car
- Use with muffler for maximum sound reduction
- Dielectric strength of 25 KV

Part Number	Description
ISC2G	2" grooved ends
ISC2.5G	2 $\frac{1}{2}$ " grooved ends
ISC3G	3" grooved ends
ISC4G	4" grooved ends

Isolation Pad

Part Number ISP:

- Buna "N" motor mount made for submersible power units

Questions? Answers at...

PACKINGS & SEALS



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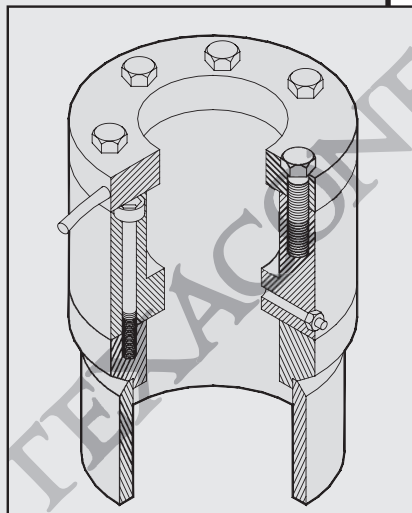
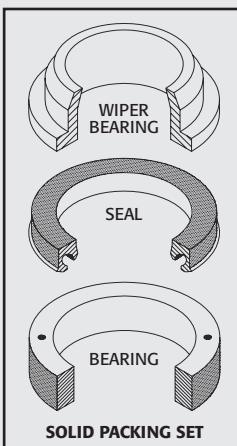
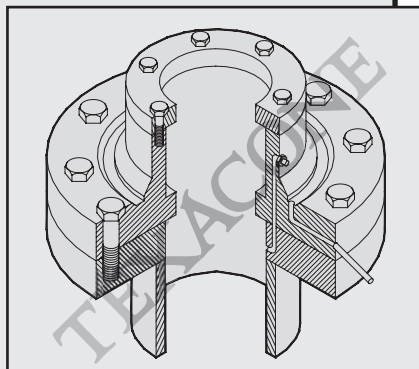
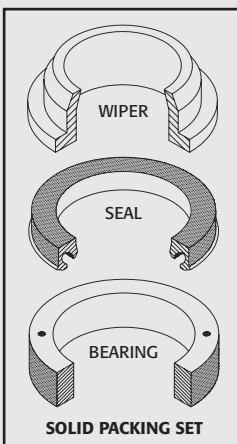
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American Crescent

American Crescent—Commercial

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
3½"	9EA109-06	9E029
4½"	9EA109-07	9E079
5"	9EA109-08	9E080
5½"	9EA109-09	9E081
6"	9EA109-10*	9E082
6½"	9EA109-11*	9E083
8½"	9EA109-13*	9E087
12½"	9EA109-12*	9E113

* Last two sizes have an additional seal and lantern ring. Assembled as wiper, seal, lantern, seal, bearing.

American Crescent — Residential (Holeless)

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
2½"	9EA109-01	9E101
2⅞"	9EA109-02	9E035
3"	9EA109-05	9E051
3⅛"	9EA109-03	9E036
3½"	9EA109-06	9E029
3⅞"	9EA109-04	9E002

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Amtech (IDES) Armor

Amtech (IDES) (Mfd. since the 1970s)

Plunger Size	Solid Packing Set Number*	Replacement Seal Number (2 required)	Split Autopak Set Number**
3"	6EA116-11	8E021	1AT114-11
3 7/8"	6EA116-06	8E001	1AT114-09
4"	6EA116-01	8E058	1AT114-10
4 3/8"	6EA116-07	8E007	1AT114-01
4 1/2"	6EA116-02	8E050	1AT114-02
5"	6EA116-03	8E051	1AT114-03
5 7/16"	6EA116-08	8E023	1AT114-04
5 1/2"	6EA116-04	8E056	1AT114-05
6"	6EA116-09	8E036	1AT114-06
6 1/2"	6EA116-05	8E026	1AT114-07
7"	6EA116-10	8E117	1AT114-08
8"	6EA116-12	8E104	1AT114-12

*Split Packing Set, 6EA107-xx is available.

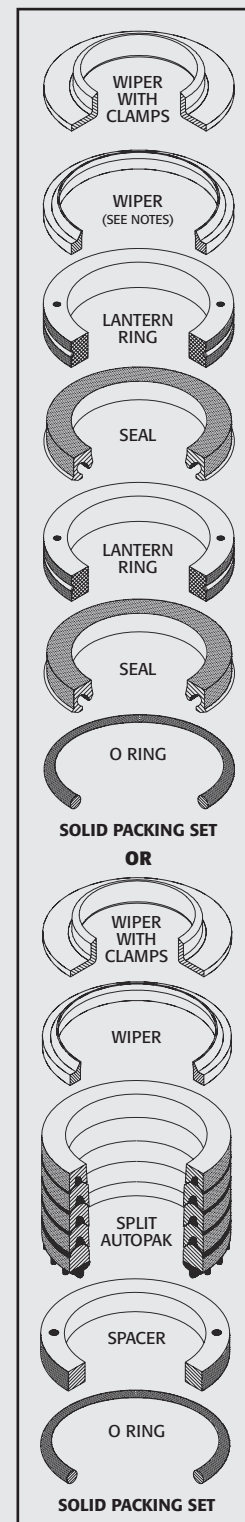
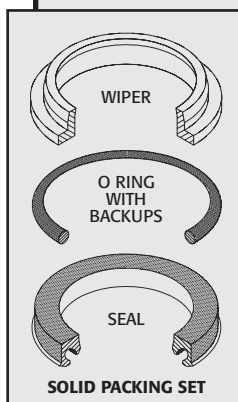
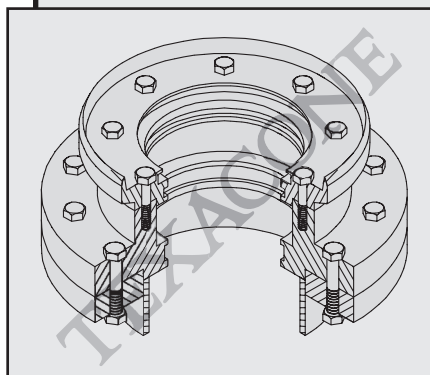
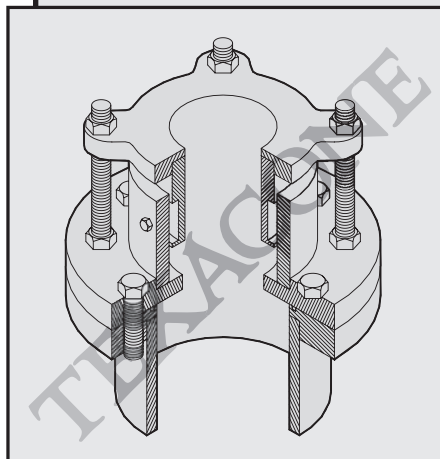
**Autopak is the recommended replacement packing.

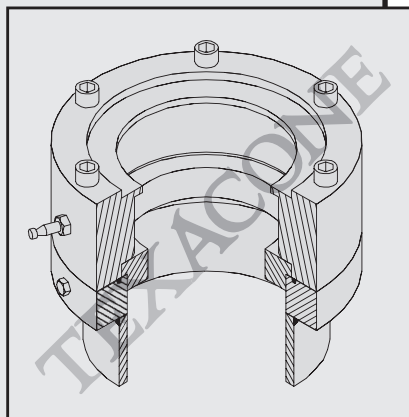
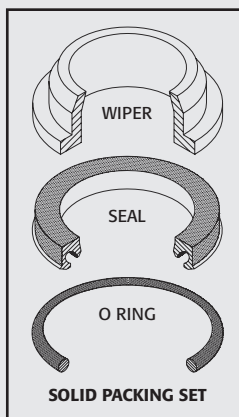
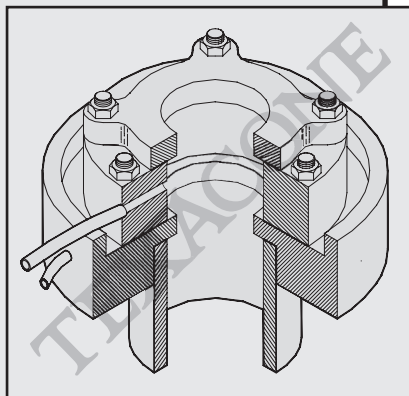
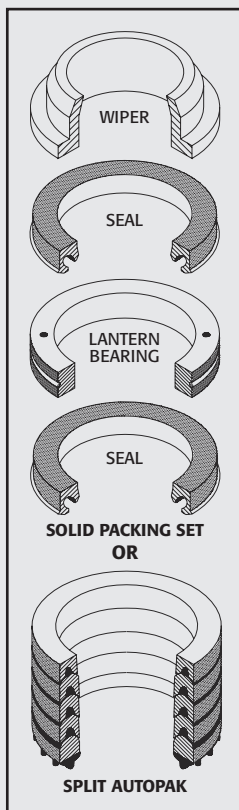
• Wiper: Units made after 2003 use snap-in wiper, older units use external wiper with clamps.

Armor

Plunger Size	Solid Packing Set Number	Replacement Seal Number (2 required)
3"	2EA003-23	6E227-SF
3 "	2EA003-24	6E214-SF
4"	2EA003-26	6E005
4 1/4"	2EA003-17	6E033
4 7/16"	2EA003-01	6E032
4 1/2"	2EA003-25	6E003
5"	2EA003-18	6E020
5 1/2"	2EA003-02	6E221-SF
6"	2EA003-19	6E028
6 9/16"	2EA003-03	6E031
7 9/16"	2EA003-04	6E059
8 9/16"	2EA003-05	6E064
9 9/16"	2EA003-06	6E007
10 11/16"	2EA003-07	6E069
12 11/16"	2EA003-08	6E068

- In Canada: "Schindler," in USA: "Kone"
- Some units may require lantern. Specify 1/2 or 3/4 tall.
- Set includes two backups for O Ring.
- May require gasket (not included) if completely disassembled.





Bore-Max Canton

Bore-Max

Plunger Size	Solid Packing Set Number*	Seals Only Set Number (1 required)*	Split Autopak Set Number**
2½"	9EA006-01***	9RF006-01***	1AT083-01
3"	9EA006-19	9RF006-19	1AT083-19
3½"	9EA006-02	9RF006-02	1AT083-02
3¾"	9EA006-20	9RF006-20	1AT083-20
4"	9EA006-15	9RF006-15	1AT083-15
4¾"	9EA006-03	9RF006-03	1AT083-03
4½"	9EA006-21	9RF006-21	1AT083-21
5"	9EA006-04	9RF006-04	1AT083-04
5⅞"	9EA006-05	9RF006-05	1AT083-05
5½"	9EA006-06	9RF006-06	1AT083-06
6"	9EA006-14	9RF006-14	1AT083-14
6½"	9EA006-07	9RF006-07	1AT083-07
6⅞"	9EA006-08	9RF006-08	1AT083-08
7"	9EA006-09	9RF006-09	1AT083-09
7½"	9EA006-10	9RF006-10	1AT083-10
8"	9EA006-16	9RF006-16	1AT083-16
8½"	9EA006-11	9RF006-11	1AT083-11
9"	9EA006-17***	9RF006-17***	1AT083-17
9½"	9EA006-12	9RF006-12	1AT083-12
10"	9EA006-18***	9RF006-18***	1AT083-18
10½"	9EA006-22	9RF006-22	1AT083-22
10⅝"	9EA006-13	9RF006-13	1AT083-13

*Seals provided as Reduced Friction except where noted.

**Use the existing lantern bearing with Autopak Set.

***Seals not Reduced Friction.

Canton (Mfrd. in the 1960s)

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
3"	9EA015-01	9E051
3½"	9EA015-02	9E029
4"	9EA015-03	9E034
4½"	9EA015-04	9E012
5"	9EA015-05	9E020
5½"	9EA015-06	9E019
6"	9EA015-07	9E032
6½"	9EA015-08	9E024
6⅞"	6EA015-09	6E031
7"	6EA015-10	6E035
7½"	6EA015-11	6E029
8"	6EA015-12	6E037
8½"	6EA015-13	6E030
8⅞"	6EA015-14	6E064
9"	9EA015-15	9E055
9½"	6EA015-16	6E039
10"	6EA015-17	8E113
10½"	9EA015-18	9E139

Questions? Answers at...

Cemco—Flange (Screw on)

Plunger Size	Complete Packing Set Number	Seals Only Set Number (1 required)
3 ⁷ / ₁₆ "	9EA019-11	9RF019-11
3 ¹ / ₂ "	9EA019-01	9RF019-01
3 ³ / ₄ "	6EA019-02	8RF019-02
3 ⁷ / ₈ "	6EA019-24	8RF019-24
4"	6EA019-03	8RF019-03
4 ³ / ₈ "	6EA019-12	8RF019-12
4 ⁷ / ₁₆ "	6EA019-13	8RF019-13
4 ¹ / ₂ "	6EA019-04	8RF019-04
5"	6EA019-05	8RF019-05
5 ⁷ / ₁₆ "	6EA019-14	8RF019-14
5 ¹ / ₂ "	6EA019-06	8RF019-06
6"	6EA019-07	8RF019-07
6 ¹ / ₂ "	6EA019-08	8RF019-08
7"	6EA019-09	8RF019-09
7 ¹ / ₂ "	6EA019-15	8RF019-15
8"	6EA019-16	8RF019-16
8 ¹ / ₂ "	6EA019-10	8RF019-10
9"	9EA019-17****/**	9RF019-17**
9 ¹ / ₂ "	6EA019-18	8RF019-18
10 ¹ / ₁₆ "***	6EA019-19	8RF019-19
10 ¹ / ₂ "***	9EA019-20****	9RF019-20
10 ⁵ / ₈ "	6EA019-21	8RF019-21
12 ⁵ / ₈ "***	6EA019-23	8RF019-23

*Seals provided as Reduced Friction except where noted.

**Seals not Reduced Friction.

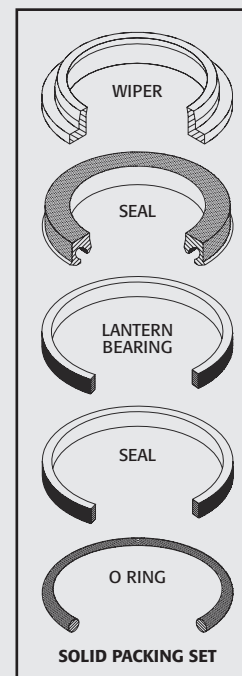
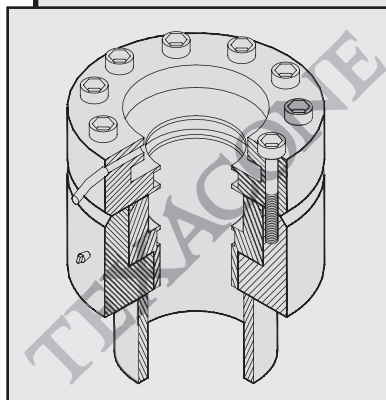
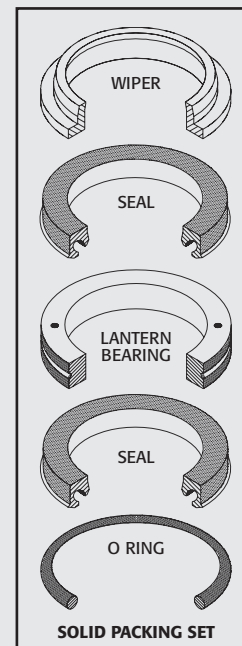
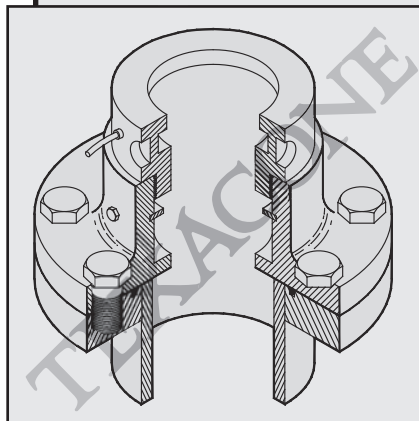
Available by special order only. *No wiper available.

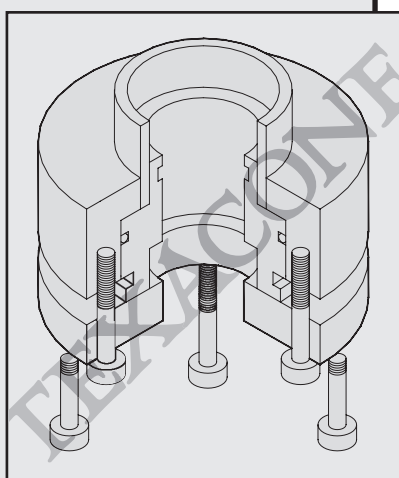
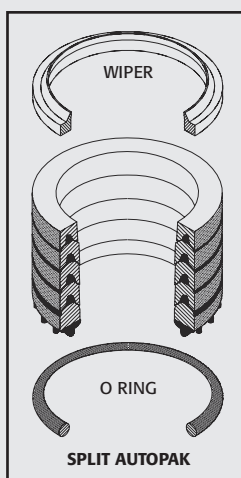
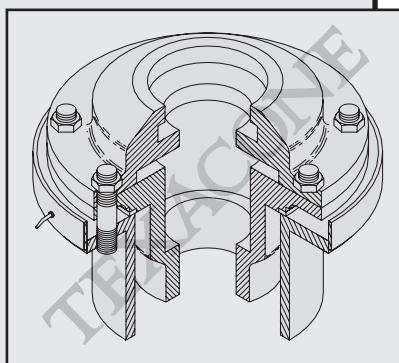
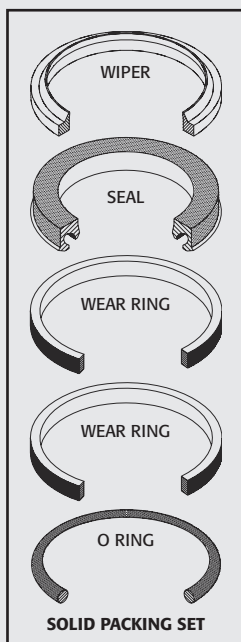
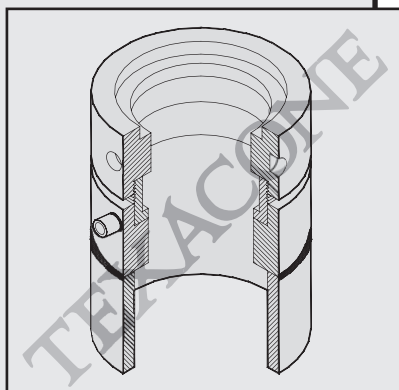
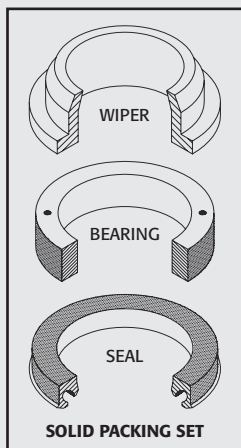
Cemco—Welded

Plunger Size	Complete Packing Set Number	Replacement Sealing Number (1 required)
70mm (2 ³ / ₄ ")	6EA106-08	8E003
100mm (3.93")**	6EA106-02*	8E032
100mm (4.72")	6EA106-07*	8E063
3 ⁷ / ₁₆ "	6EA106-01	8E030
4 ¹ / ₂ "	6EA106-03	8E019
5"	6EA106-04	8E024
5 ¹ / ₂ "	6EA106-05	8E025
6"	6EA106-09	8E027
6 ¹ / ₂ "	6EA106-06	8E008
7"	6EA106-10	8E090
7 ¹ / ₂ "	6EA106-11	8E069

* Wiper not available in these sizes.

**These 2 sizes can be easily confused with the Otis/Cemco head packaging.





Coast Concord Dover (Thyssenkrupp)

Coast [CA]

Plunger Size	Solid Packing Set Number	Replacement Sealing Number (1 required)
4"	6EA035-01	6E005
4 ³ / ₈ "	6EA035-02	6E206SF
5"	6EA035-03	6E020
5 ⁷ / ₁₆ "	6EA035-04	6E219SF
5 ¹ / ₂ "	6EA035-05	6E221SF
6"	6EA035-06	6E028
6 ⁷ / ₁₆ "	6EA035-07	6E070
6 ¹ / ₂ "	6EA035-08	6E208SF
7"	6EA035-09	6E035
7 ¹ / ₂ "	6EA035-10	6E029
8"	6EA035-11	6E037
8 ¹ / ₂ "	6EA035-12	6E030
10"	6EA035-13	8E113

Concord

Plunger Size	Solid Packing Set Number	Replacement Sealing Number (1 required)
1 ¹ / ₂ "	9EA152-01	9E008
2"	9EA152-02	9E057
2 ¹ / ₂ "	9EA152-03	9E058
2 ³ / ₄ "	6EA152-04	7E035
3 ¹ / ₄ "	6EA152-05	6E278

Dover (Thyssenkrupp)—IVO

Plunger Size	Solid Packing Set Number	Replacement Sealing Number (1 required)	Split Autopak Set Number
3 ⁷ / ₈ "			1A084-10*

*Autopak is the recommended replacement packing.

Inverted cylinder. Unit extremely difficult to disassemble to install solid seals. Specify if solid set is preferred.

Questions? Answers at...

Dover [Thyssenkrupp]

Dover [Thyssenkrupp]—Rota

Plunger Size	Solid Packing Set Number	Replacement * Sealing Number (1 required)	Steel Spacer
3½" (3S)	3EA023-11**	4E002	—
4¾" (4S)	9EA023-12	9E091	—
5⅞" (5S)	9EA023-13	9E092	—
6½" (6S)	9EA023-14	9E093	—
7½" (7S)	—	4E014	—

Older Two-Seal Units

Use Solid Set plus Steel Spacer

4¾" (4S)	9EA023-12	9E091	1S212
5⅞" (5S)	9EA023-13	9E092	1S213
6½" (6S)	9EA023-14	9E093	1S214

• Do not use two Rota Seals in tandem. Do not use standard ½ cross section seal below Rota Seal as this may result in excessive friction.

* Replacement seal no longer includes O-Ring (included in complete set only).

** O-Ring not available.

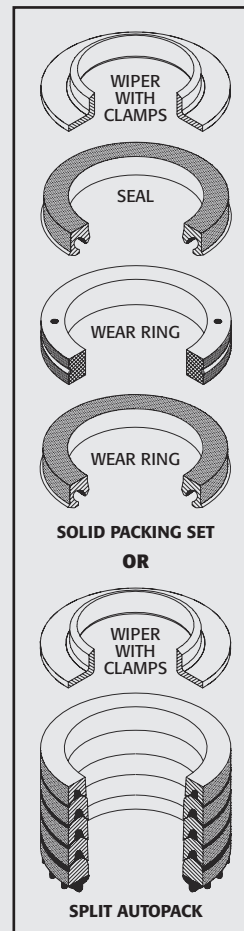
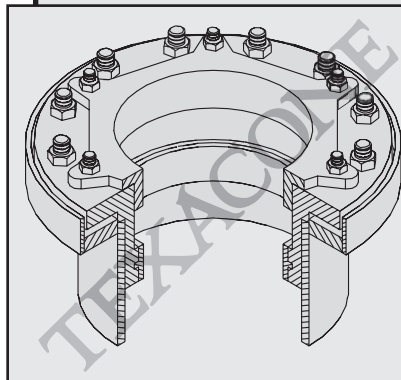
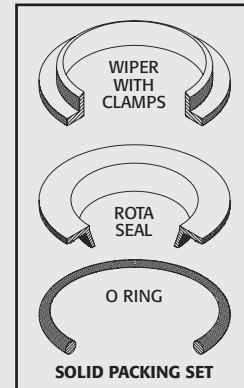
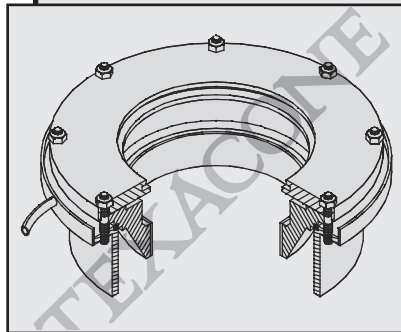
Dover [Thyssenkrupp]—Rotary

Plunger Size	Solid Packing Set Number	Replacement Sealing Number (2 required)	Autopak Set Number*
4¾"***	3EA023-01	6E206SF	1AT084-01
5⅞"***	3EA023-02	6E219SF	1AT084-02
6½"***	3EA023-03	6E208SF	1AT084-03
7½" (7S)*	3EA023-04	6E029	1AT084-04
8½" (8S)	3EA023-05	6E030	1AT084-05
9½" (9S)	3EA023-06	6E039	1AT084-06
10⅝" (10S)	3EA023-07	6E042	1AT084-07
12⅝" (12S)	3EA023-08	6E041	1AT084-08
15¾" (15S)	3EA023-09***	3E042	1AT084-09***

* Autopak is the recommended replacement packing.

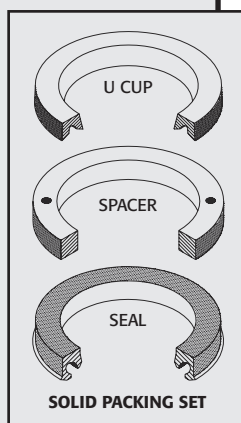
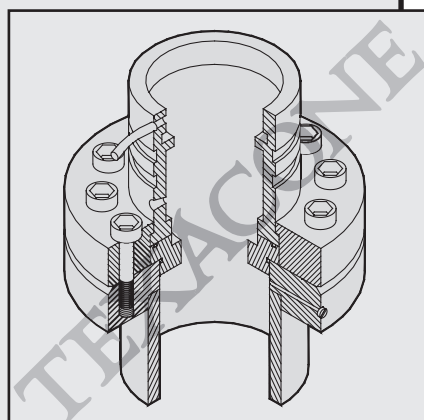
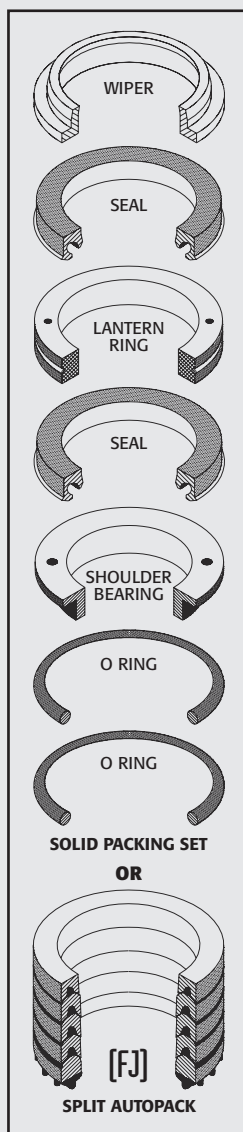
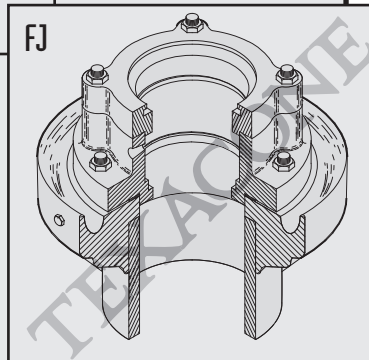
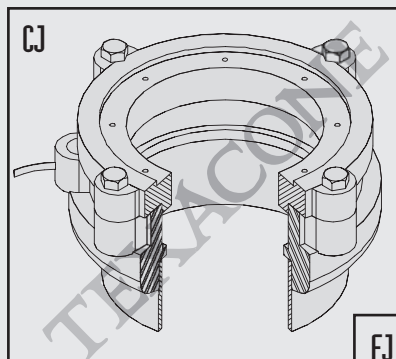
** Packing sets and seals are for Rotary Lifts manufactured prior to 1955. After 1955, see Dover-Rota.

*** Wiper not available.



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



EECO

EECO—CJ* & FJ

Plunger Size	Solid Packing Set Number**	Seals Only Set Number (1 required)**	Autopak Set Number
2 ³ / ₄ "	6EA008-18	8RF008-18	1AT089-13
3 ⁷ / ₁₆ "	9EA008-10	9RF008-10	1AT089-10
3 ¹ / ₂ "	6EA008-19	8RF008-19	1AT089-14
3 ⁷ / ₈ "	6EA008-11	8RF008-11	1AT089-11
4"	6EA008-12	8RF008-12	1AT089-12
4 ³ / ₈ "	6EA008-01	8RF008-01	1AT089-01
5"	6EA008-02	8RF008-02	1AT089-02
5 ⁷ / ₁₆ "	6EA008-03	8RF008-03	1AT089-03
6"	6EA008-04	8RF008-04	1AT089-04
6 ¹ / ₂ "	6EA008-05	8RF008-05	1AT089-05
7 ¹ / ₂ "	6EA008-06	8RF008-06	1AT089-06
8 ¹ / ₂ "	6EA008-07	8RF008-07	1AT089-07
10 ⁵ / ₈ "	6EA008-08	8RF008-08	1AT089-08
12 ⁵ / ₈ "	6EA008-09	8RF008-09	1AT089-09

*NOTE: CJ units were manufactured before 1965 and do NOT resemble the FJ head. Recommend Autopak.

**Seals provided as Reduced Friction.

EECO—HJ

Plunger Size	Solid Packing Set Number*	Seals Only Set Number (1 required)*
4 ³ / ₈ "	6EA008-13	6E206 SF
5"	6EA008-14	6E020
5 ⁷ / ₁₆ "	6EA008-15	6E219 SF
6"	6EA008-16	6E028
6 ¹ / ₂ "	6EA008-17	6E208 SF

• EECO recommends calling for replacement cylinder head.

• Very few exist. Looks identical to LJ on outside.

Questions? Answers at...

EECO—LJ

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)
2¾"	6EA008-18*	8RF008-18
3⅞"	9EA008-10	9RF008-10
3½"	6EA008-19	8RF008-19
3⅞"	6EA008-11	8RF008-11
4"	6EA008-12	8RF008-12
4⅜"	6EA008-01	8RF008-01
5"	6EA008-02	8RF008-02
5⅞"	6EA008-03	8RF008-03
6"	6EA008-04	8RF008-04
6½"	6EA008-05	8RF008-05
7½"	6EA008-06	8RF008-06
8½"	6EA008-07	8RF008-07
10⅝"	6EA008-08*	8RF008-08
12⅝"	6EA008-09*	8RF008-09

TLJ—Telescopic**

3½" TLJ	6EA008-19	
	6EA008-03	9E081
4⅜" TLJ	6EA008-01	
	6EA008-05	6E063

*Bearing used in set instead of shoulder bearing.

**Telescopic units require (2) sets plus piston seal.

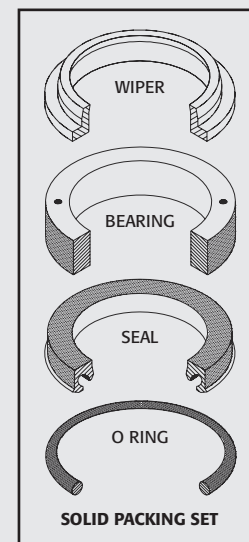
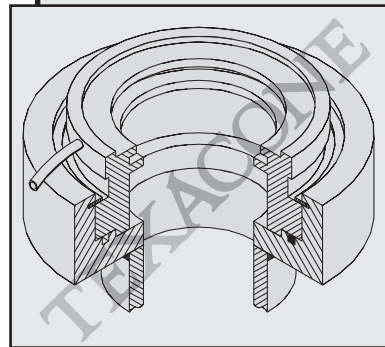
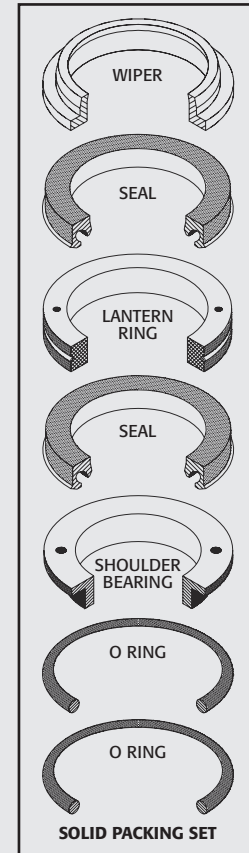
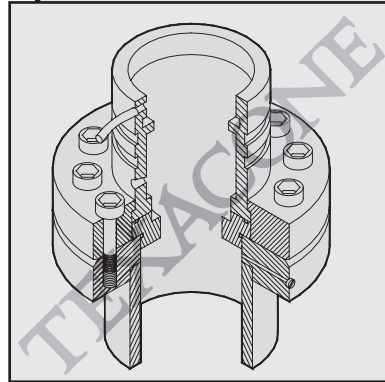
• Some units may not have grooves on outside of barrel.

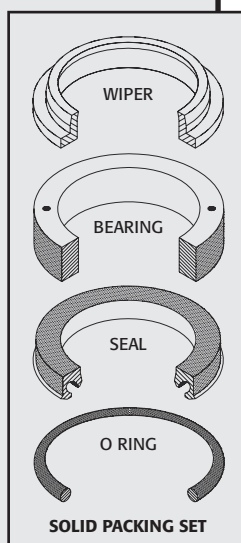
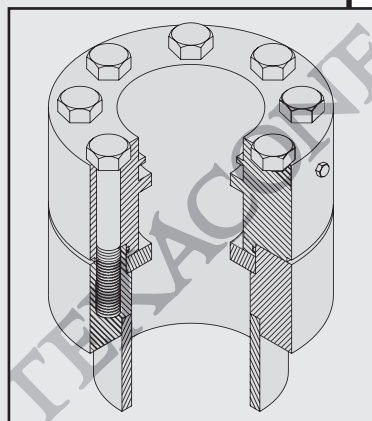
EECO—NJ

Plunger Size	Solid Packing Set Number*	Seals Only Set Number (1 required)
2¾"	6EA115-01	8E052
3"	6EA115-02	8E041
3⅞"	6EA115-03	8E030
3⅞"	6EA115-04	8E001
4"	6EA115-05	8E058
4⅜"	6EA115-06	8E007
5"	6EA115-07	8E051
5⅞"	6EA115-08	8E023
6"	6EA115-09	8E036
6½"	6EA115-10	8E026
7"	6EA115-14	8E117
7½"	6EA115-16	8E037
8"	6EA115-16	8E104
8½"	6EA115-17	8E118

• NJ manufactured from 1989 to 1996.

• Some sets include O Ring for PJ units.





EECO

EECO—PJ & TJ

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)*
2 $\frac{3}{4}$ "	9EA120-01	9E011
3"	9EA120-02	9E031
3 $\frac{7}{16}$ "	9EA120-03	9E045
3 $\frac{7}{8}$ "	9EA120-04	9E002
4"	9EA120-05	9E034
4 $\frac{3}{8}$ "	9EA120-06	9E003
4 $\frac{1}{2}$ "	9EA120-12	9E012
5"	9EA120-07	9E020
5 $\frac{7}{16}$ "	9EA120-08	9E014
6"	9EA120-09	9E032
6 $\frac{1}{2}$ "	9EA120-10	9E024
7"	9EA120-14	9E105
7 $\frac{1}{2}$ "	9EA120-15	9E054
8 $\frac{1}{2}$ "	9EA120-13	9E087

TJ—Telescopic*

2 $\frac{1}{2}$ "	9EA120-16	9E046 9E053 9E042
2 $\frac{3}{4}$ "	9EA120-11	9E011 8E115 9E078
4"	9EA120-17	9E034 9E095 9E082
4 $\frac{1}{2}$ "	9EA120-18**	9E012 ** 9E083

*Complete TJ set includes (3) bearings and (3) seals and (2) O Rings. For replacement seals only, order the (3) seals listed.

** Call for availability.

• PJ manufactured after 1996.

• 2 $\frac{3}{4}$ & 3 $\frac{7}{16}$ may be confused with custom Elev. Mfg. (see opposite page)

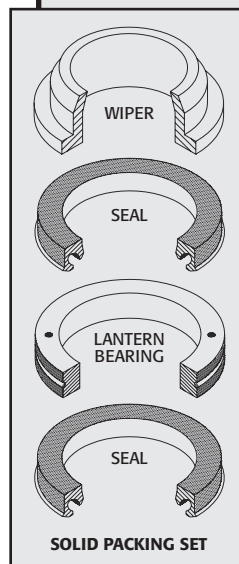
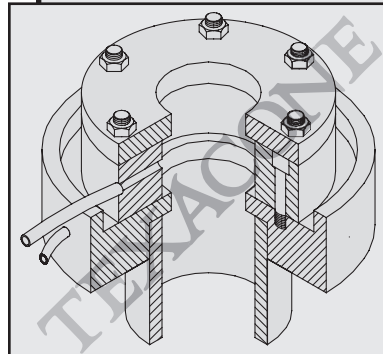
Questions? Answers at...

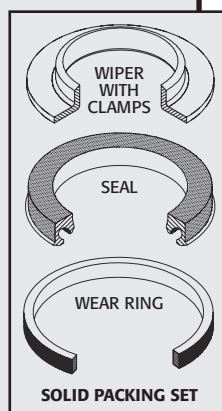
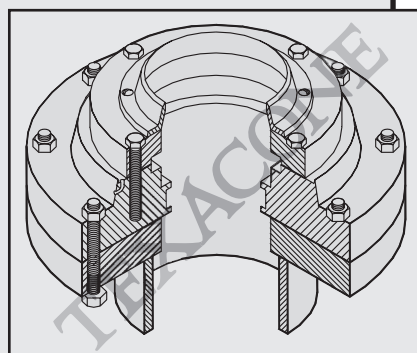
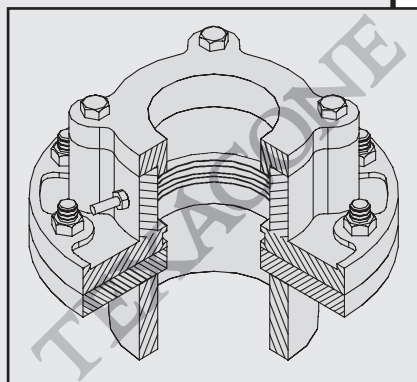
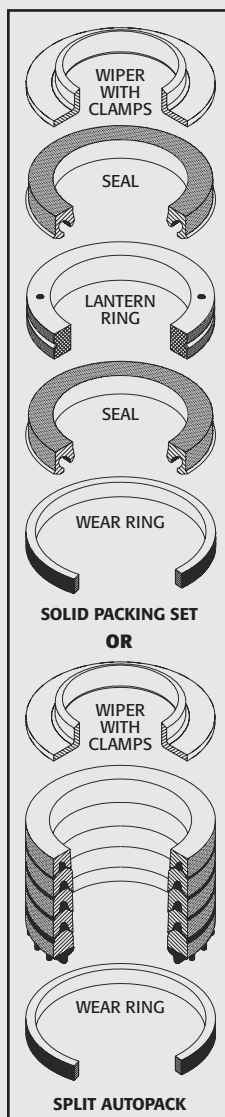
Elevator Manufacturing

Elevator Manufacturing

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)*
3"	9EA137-19	9RF137-19
3½"	9EA137-02	9RF137-02
4"	9EA137-15	9RF137-15
4¾"	9EA137-03	9RF137-03
4½"	9EA137-21	9RF137-21
5"	9EA137-04	9RF137-04
5⅞"	9EA137-05	9RF137-05
5½"	9EA137-06	9RF137-06
6"	9EA137-14	9RF137-14
6½"	9EA137-07	9RF137-07
7"	9EA137-09	9RF137-09
7½"	9EA137-10	9RF137-10
8½"	9EA137-11	9RF137-11
10½"	9EA137-22	9RF137-22
10⅝"	9EA137-13	9RF137-13

- May require gasket (not included) if completely disassembled.
- Plunger > 5½ normally has round cover plate.





Esco

Esco—P3 & P7

Plunger Size	Solid Packing Set Number*	Seals Only Set Number (1 required)	Split Autopak Set Number
2½"	9EA024-01	9RF024-01	1AT092-01
3"	3EA024-02	8RF024-02	1AT092-02
4"	3EA024-03	8RF024-03	1AT092-03
4½"	3EA024-04	8RF024-04	1AT092-04
5"	3EA024-05	8RF024-05	1AT092-05
5½"	3EA024-06	8RF024-06	1AT092-06
6"	3EA024-07	8RF024-07	1AT092-07
6½"	3EA024-35	8RF024-35	1AT092-08
7"	3EA024-08	8RF024-08	1AT092-09
7½"	3EA024-36	8RF024-36	1AT092-17
8"	3EA024-09	8RF024-09	1AT092-10
9"	9EA024-10	9RF024-10	1AT092-11
10⅝"	3EA024-11	8RF024-11	1AT092-12
12⅝"	3EA024-12	8RF024-12	1AT092-13
13⅞"	3EA024-32*	8RF024-32	1AT092-14*
15⅞"	3EA024-33*	8RF024-33	1AT092-15*
17⅞"	3EA024-34*	8RF024-34	1AT092-16*

*Wiper not available.

**May require gasket (not included) if completely disassembled.

Esco—P4 Line Seal

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
4"	3EA024-13	6E165SF
4½"	3EA024-14	6E168SF
5"	3EA024-15	6E169SF
5½"	3EA024-16	6E171SF
6"	3EA024-17	6E104
7"	3EA024-18	6E174SF
8"	3EA024-19	6E176SF
9"	9EA024-20	9E055
10⅝"	3EA024-21	6E042

*The conventional seal replaces the line seals used between 1966 and 1972. To install the conventional seal simply flip the top flange over so that the machined groove is facing upward.

• May require gasket (not included) if completely disassembled.

Questions? Answers at...

Esco—P6 Victaulic

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
4"	9EA024-22*	9E034
4½"	9EA024-23	9E012
5"	9EA024-24	9E020
5½"	9EA024-25	9E019
6"	9EA024-26	9E032
6½"	9EA024-30	9E024
7"	9EA024-27	9E105

- * O Ring included. Required for holeless units only.
- Optional Victaulic Gasket available. Call with cylinder size.
- For plungers larger than 7" the Victaulic head requires the same configuration as P3 & P7 head. (Solid packing set only, not Split Autopak.)

Esco—P9 Holeless—886

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
3¼" (Before July 1983)	3EA024-28	6E158SF
3¼" (After July 1983)	3EA024-29	6E159SF
3¼" (Both Seals)	3EA024-37*	—
4"	9EA024-22	9E034

- If date is not known, recommend 3EA024-37 which contains seals for both 3¼" versions.

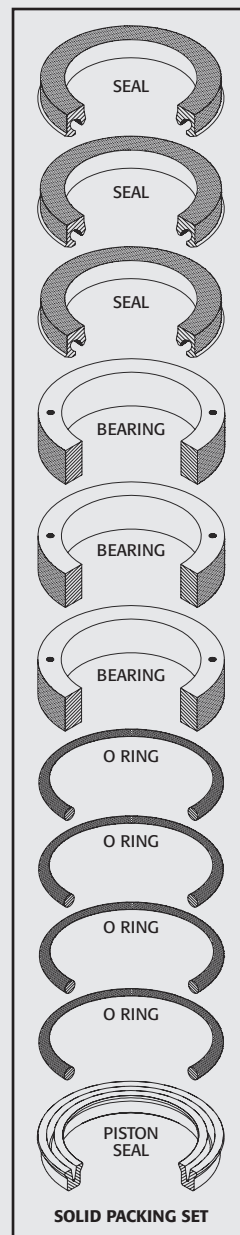
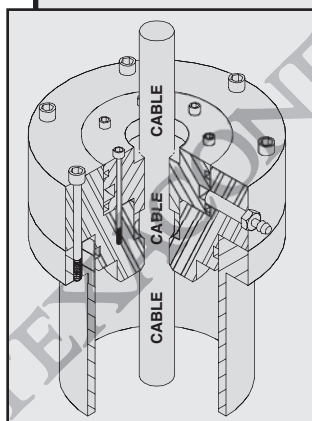
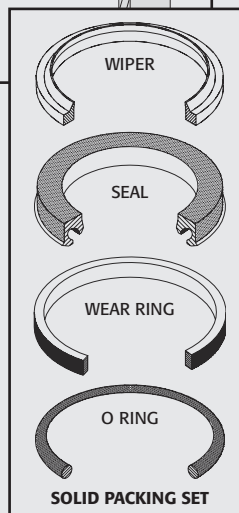
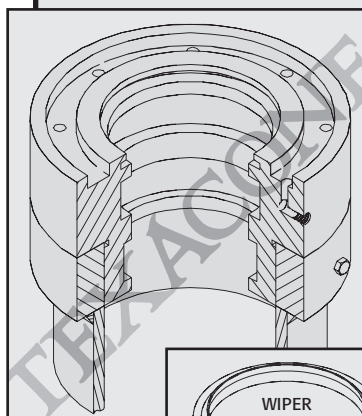
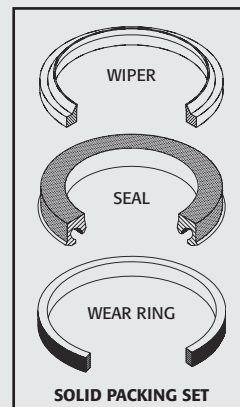
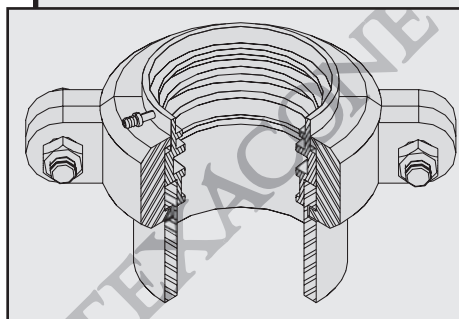
Esco—Cable Roped

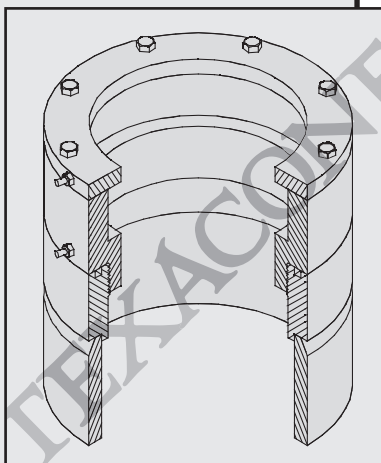
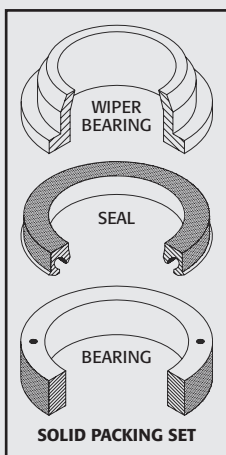
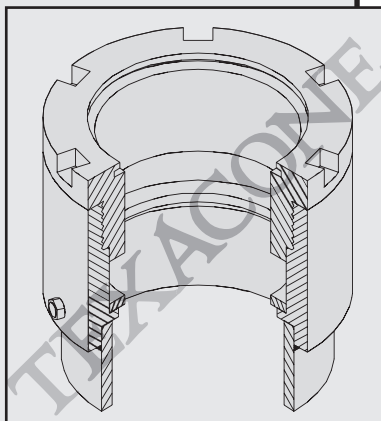
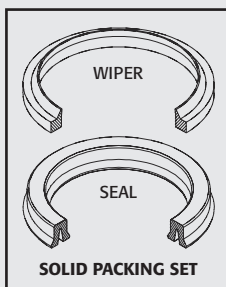
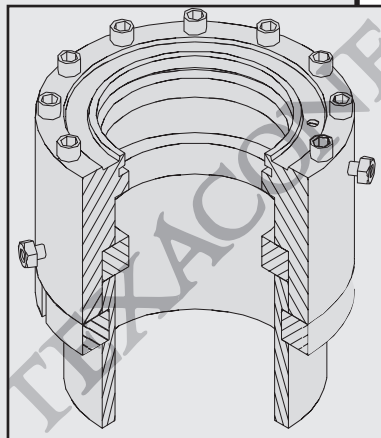
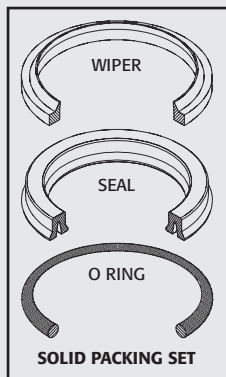
Cable Size	Solid Packing Set Number*	Replacement Seal Number (3 required)	Replacement Piston Seal Number (1 req.)
5/8"	6EA129-01	7E026	7E032
5/8" (RES)	6EA129-02	7E026	7E033
5/8"	6EA129-03*	7E026	7E032
¾"	7E025	—	—

- * Not as common. Only way to determine correct packing is to disassemble call for assistance. Split wear rings used instead of solid bearings shown.

** Call for Complete set availability.

- Each unit requires (4) sets except 5/8" RES which requires (2) sets.





Federal Florlift GCE

Federal

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
2 $\frac{3}{8}$ "	6EA140-01	7E034
2 $\frac{3}{4}$ "	6EA140-02	7E035
3 $\frac{1}{2}$ "	9EA140-03	9E048

Florlift

Plunger Size	Solid Packing Set Number
2"	9EA144-01
2 $\frac{1}{2}$ "	9EA144-02
3"	6EA144-03
4"	9EA144-04

• Uses bronze gland.

GCE

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
2 $\frac{7}{8}$ "	9EA109-02*	9E035
3"	9EA109-05	9E051

* O Ring included.

• Heads used with multi-piece plungers may require O Ring.

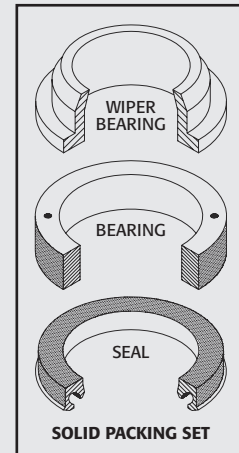
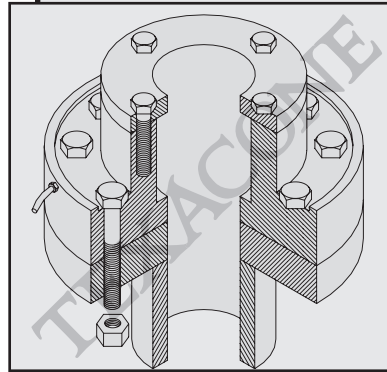
Questions? Answers at...

General

General Steel & Aluminum

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
3 ⁷ / ₁₆ "	9EA014-12	9E045
3 ¹ / ₂ "	9EA014-01	9E029
3 ¹⁵ / ₁₆ "	6EA014-11	6E019
4"	9EA014-13	9E022
4 ⁷ / ₁₆ "	9EA014-02	9E084
4 ¹ / ₂ "	9EA014-10	9E012
5"	9EA014-14	9E020
5 ⁷ / ₁₆ "	9EA014-03	9E014
5 ¹ / ₂ "	9EA014-15	9E019
6 ⁷ / ₁₆ "	6EA014-04	6E272
6 ¹ / ₂ "	9EA014-05	9E024
7 ¹ / ₂ "	9EA014-06	9E054
8 ¹ / ₂ "	9EA014-07	9E087
9 ¹ / ₂ "	9EA014-08	9E089

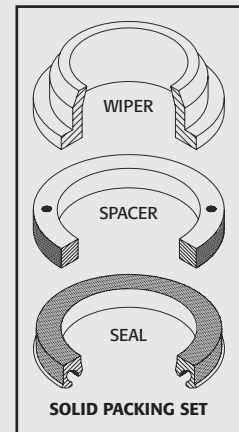
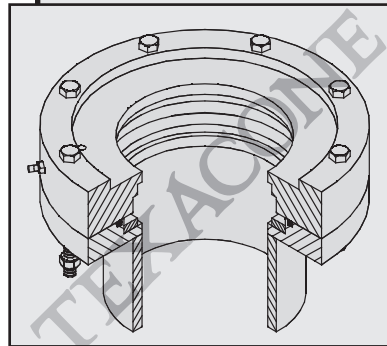
- Additional sizes available, please inquire.
- May require gasket (not included) if completely disassembled.

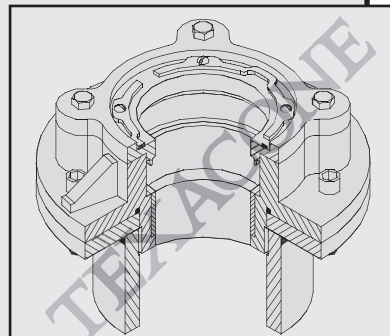
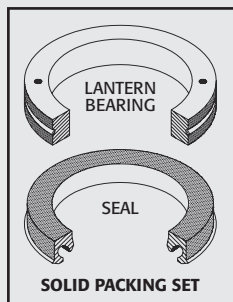
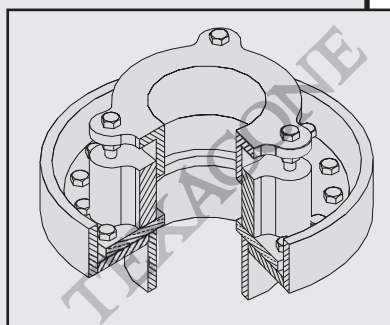
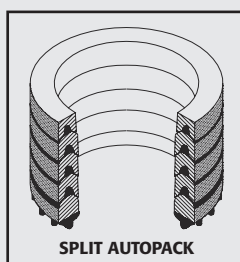
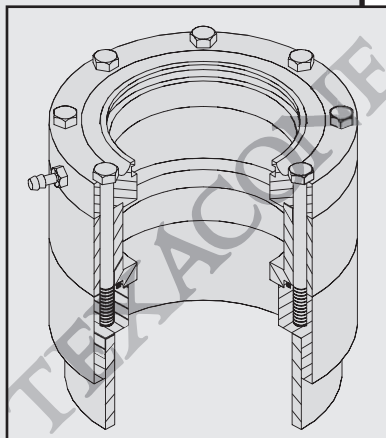
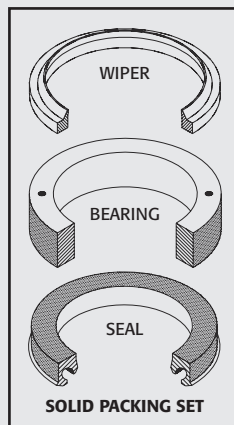


General — F2

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
4 ⁷ / ₁₆ "	9EA151-01	9E084
4 ¹ / ₂ "	9EA151-02	9E012
5 ¹ / ₂ "	9EA151-03	9E019
5 ¹⁷ / ₃₂ "	9EA151-04	9E081
6 ¹ / ₂ "	9EA151-05	9E024
6 ¹⁷ / ₃₂ "	9EA151-06	9E083
7 ¹ / ₂ "	9EA151-07	9E054
7 ¹⁷ / ₃₂ "	9EA151-08	9E129
8 ¹ / ₂ "	9EA151-09	9E087
8 ¹⁷ / ₃₂ "	9EA151-10	9E096

- Additional sizes available, please inquire.
- O Ring sizes vary per unity. See O Ring Splicing Kit, page 24.43.
- Reuse existing shoulder bearing. Replacements available upon request.





Global Globe Hoist Hollister-Whitney

Global (Hydrotech Cylinders)

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
2"	9EA121-01	9E047
2½"	9EA121-02	9E046
2¾"	9EA121-03	9E011
3"	9EA121-04	9E022
3½"	9EA121-05	9E029
4"	9EA121-06	9E034
4¾"	9EA121-16	9E003
4½"	9EA121-07	9E012
5"	9EA121-08	9E020
5⅞"	9EA121-15	9E014
5½"	9EA121-09	9E019
6"	9EA121-10	9E032
6½"	9EA121-11	9E024
7½"	9EA121-12*	9E054*
8½"	6EA121-13*	8E118*
10⅝"	9EA121-14*	9E030*

*These sets contain (2) seals and require (2) seals for replacement. Assembled as wiper, seal, bearing, seal.

• Manufactured until 2006.

Globe Hoist

Plunger Size	Split Autopak Set Number
4⅜"	1AT117-01
5⅜"	1AT117-02
6⅞"	1AT117-03
7½"	1AT117-04
8½"	1AT117-05
10⅝"	1AT117-06

Hollister-Whitney (old)

Plunger Size	Complete Packing Set Number	Replacement Sealing Number (1 required)
4⅜"	6EA119-01	6E206SF
4½"	6EA119-02	6E003
5⅜"	6EA119-03	6E047
5⅞"	6EA119-04	6E219SF
6½"	6EA119-05	6E208SF
7½"	6EA119-06	6E029
8½"	6EA119-07	6E030
10⅝"	6EA119-08	6E042

Questions? Answers at...

Hollister-Whitney Home Hydromoris Inclinator

Hollister-Whitney

Plunger Size	Solid Packing Set Number	Replacement Sealing Number (1 required)
4 ³ / ₈ "	6EA017-01	6E206SF
4 ¹ / ₂ "	6EA017-02	6E003
5 ³ / ₈ "	6EA017-03	6E047
5 ⁷ / ₁₆ "	6EA017-04	6E219SF
6 ¹ / ₂ "	6EA017-05	6E208SF
7 ¹ / ₂ "	6EA017-06	6E029
8 ¹ / ₂ "	6EA017-07	6E030
10 ⁵ / ₈ "	6EA017-08	6E042

Home

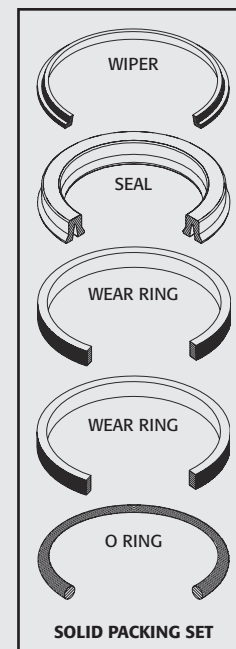
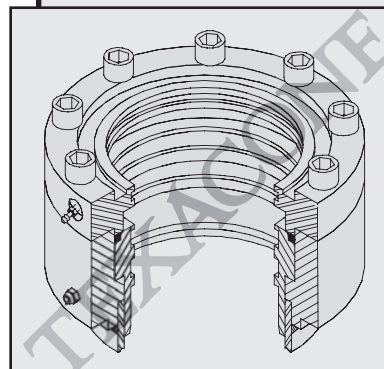
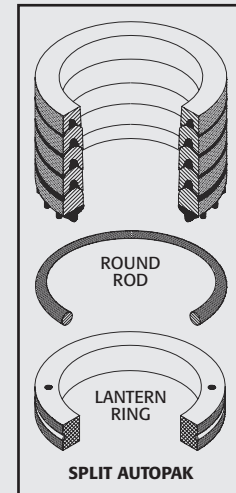
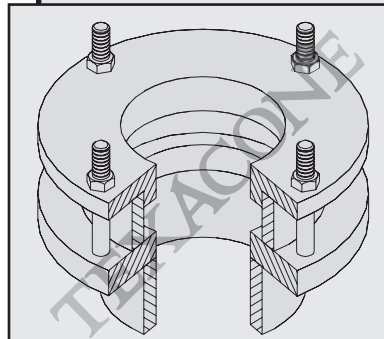
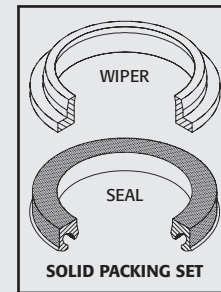
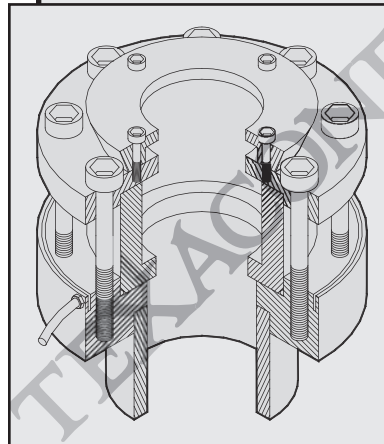
Plunger Size	Split Autopak Set Number
4"	1A107-01
4 ¹ / ₂ "	1A107-02
5"	1A107-03
5 ¹ / ₂ "	1A107-04
6"	1A107-05

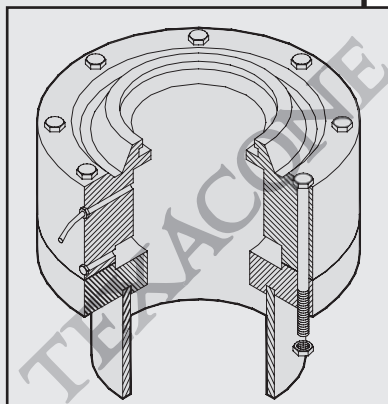
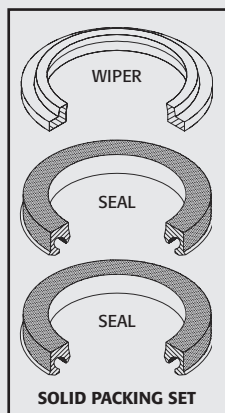
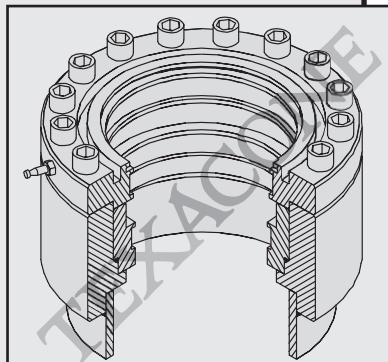
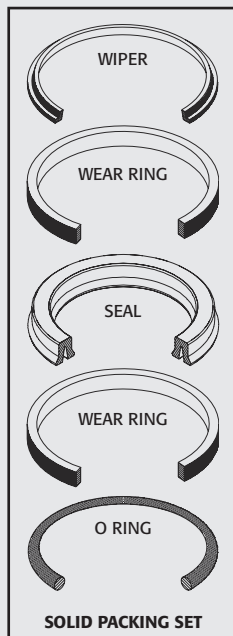
• Not supplied as Super Slick Autopak.

Hydromoris (Hone)

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
60mm	9EA131-01	9E071
70mm	9EA131-02	9E072
80mm	6EA131-03	9E073
90mm	9EA131-04	9E065
100mm	9EA131-05	9E066
110mm	9EA131-06	9E067
120mm	9EA131-07	9E068
130mm	9EA131-08	9E069
140mm	9EA131-09	9E063
150mm	9EA131-10	9E033
160mm	9EA131-11	9E070
180mm	6EA131-12	9E043
200mm	6EA131-13	8E064

• Manufactured from 2000 to 2004.





Inclinator

ITI

Inclinator

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
2 ⁵ / ₁₆ "	9EA135-01	9E098
2 ¹³ / ₁₆ "	9EA135-02	9E099

ITI-In Ground

Plunger Size	Cross Section	Solid Packing Set Number	Replacement Seal Number (2 required)
4"	1/2	9EA138-13	9E034
4 ³ / ₈ "	1/2	9EA138-15	9E003
4 ⁷ / ₁₆ "	1/2	9EA138-17	9E084
4 ¹ / ₂ "	1/2	9EA138-14	9E012
4 ⁵ / ₈ "	1/2	9EA138-16	9E114
5"	1/2	9EA138-18	9E020
5 ⁷ / ₁₆ "	1/2	9EA138-20	9E014
5 ¹ / ₂ "	1/2	9EA138-19	9E019
6"	1/2	9EA138-21	9E032
6 ¹ / ₂ "	1/2	9EA138-22	9E024
6 ⁹ / ₁₆ "	1/2	9EA138-23	9E086
7 ¹ / ₂ "	1/2	9EA138-24	9E054
8"	1/2	9EA138-25	9E103
8 ⁹ / ₁₆ "	1/2	9EA138-26	9E088
9 ¹ / ₂ "	1/2	9EA138-27	9E089
9 ⁹ / ₁₆ "	1/2	9EA138-28	8E090
10 ¹¹ / ₁₆ "	1/2	6EA138-29	8E111
12 ¹¹ / ₁₆ "	1/2	6EA138-30	8E112

- After July 2005, some units smaller than 6¹/₂" may require only (1) seal.
- Always reuse lantern ring. Place between the (2) seals.
- Other sizes available, call with plunger size and cross section
- O Ring sizes vary per unit. See O Ring Splicing Kit (page 24.43).
- First digit of serial number indicates type of unit:
(2) in ground, (3) holeless, (4) telescopic.

Questions? Answers at...

ITI Lift-Avator

ITI—Holeless & Telescopic

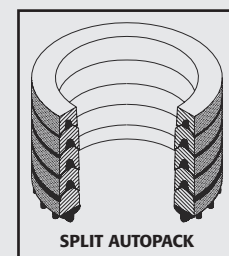
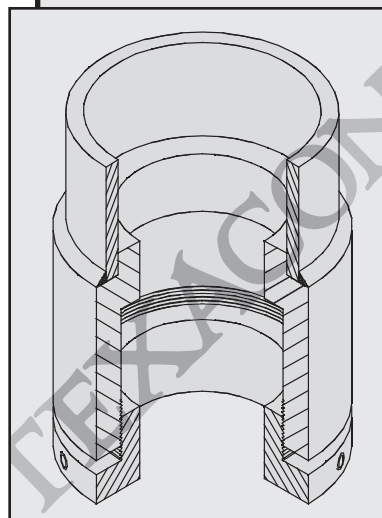
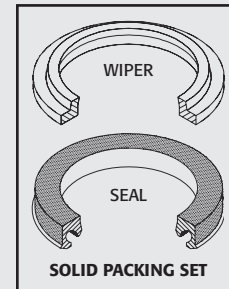
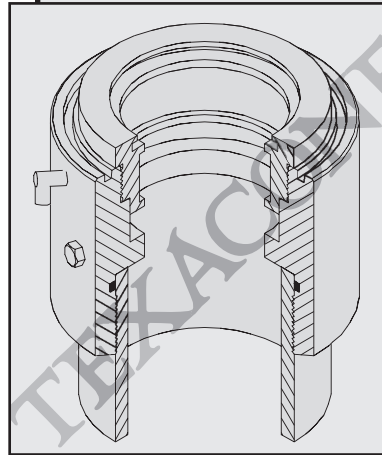
Plunger Size	Cross Section	Solid Packing Set Number	Replacement Seal Number (2 required)
1 3/4"	3/8	6EA146-01	8E045
1 3/4"	1/2	9EA146-02	9E124
2"	3/8	9EA146-03	9E047
2 1/2"	3/8	9EA146-04	9E076
2 3/4"	3/8	9EA146-05	9E077
3"	3/8	9EA146-06	9E031
3 1/4"	3/8	9EA146-07	9E111
3 1/2"	1/2	9EA146-08	9E108
3 1/2"	3/8	9EA146-09	9E042
3 3/4"	1/2	9EA146-10	9E142
3 7/8"	1/2	9EA146-10	9E142
4"	3/8	9EA146-12	9E110
4"	1/2	9EA146-13	9E078
4 3/8"	1/2	9EA146-15	9E044
4 7/16"	1/2	9EA146-17	9E084
4 1/2"	1/2	9EA146-14	9E079
4 5/8"	1/2	9EA146-16	9E114
5"	1/2	9EA146-18	9E080
5 7/16"	1/2	9EA146-20	9E128
5 1/2"	1/2	9EA146-19	9E081
6"	1/2	9EA146-21	9E082
6 1/2"	1/2	9EA146-22	9E083
6 9/16"	1/2	9EA146-23	9E086
7 1/2"	1/2	9EA146-24	9E129
8"	1/2	9EA146-25	9E103
8 9/16"	1/2	9EA146-26	9E088
9 1/2"	1/2	9EA146-27	9E089
9 9/16"	1/2	9EA146-28	9E090
10 11/16"	1/2	6EA146-29	8E111
12 11/16"	1/2	6EA146-30	8E112

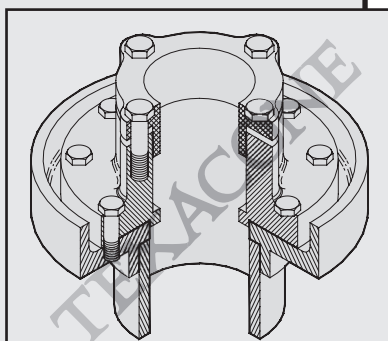
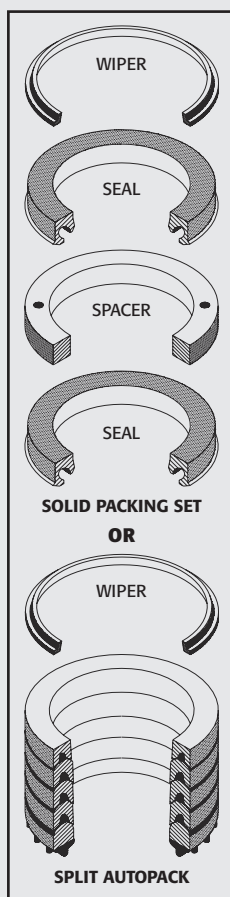
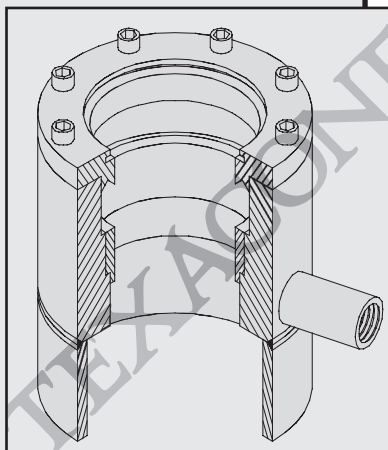
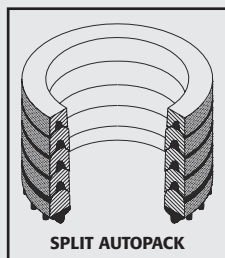
- Complete seal repack for telescopic units require (2) or more sets plus piston seal.
- Other sizes available, call with plunger size and cross section
- O Ring sizes vary per unit. See O Ring Splicing Kit (page 24.43).
- First digit of serial number indicates type of unit:
(2) in ground, (3) holeless, (4) telescopic.
- Uses bronze head.

Lift-Avator

Plunger Size	Split Packing Set Number
2 1/2"	1A120-01
3"	1A120-02

- Inverted Cylinder. Unit extremely difficult to disassemble to install solid seals. Specify if solid set is preferred.





Marmac Montgomery (Kone)

Marmac

Plunger Size	Split Autopak Set Number
4 ³ / ₈ "	1A119-01
5 ³ / ₈ "	1A119-02
6 ¹ / ₂ "	1A119-03
8 ¹ / ₂ "	1A119-04
10 ¹ / ₂ "	1A119-05
12 ¹ / ₂ "	1A119-06
13 ³ / ₄ "	1A119-07
15 ³ / ₄ "	1A119-08
17 ³ / ₄ "	1A119-09
18 ³ / ₄ "	1A119-10
21 ³ / ₄ "	1A119-11

Martin, D.L.

Note: D.L. Martin manufactured units for Schindler and Westinghouse from the 1980s to present. See corresponding Schindler and Westinghouse pages 24.29-24.34.

Montgomery (Kone)—Cast

Plunger Size	Solid Packing Set Number**	Seals Only Set Number (1 required)	Split Autopak Set Number*
3 ¹⁵ / ₁₆ "	3EA026-11	8RF026-11	1AT074-01
4 ³ / ₈ "	3EA026-26	8RF026-26	1AT074-33
4.46"	3EA026-12	8RF026-12	1AT074-02
5 ⁷ / ₁₆ "	3EA026-27	8RF026-27	1AT074-34
5.52"	3EA026-13	8RF026-13	1AT074-03
5.72"	9EA026-14	9RF026-14	1AT074-04
6 ¹ / ₂ "	3EA026-28	8RF026-28	1AT074-35
6.59"	3EA026-15	8RF026-15	1AT074-05
7.47"	3EA026-16	8RF026-16	1AT074-06
8 ¹ / ₂ "	3EA026-29	8RF026-29	1AT074-36
8.57"	3EA026-17	8RF026-17	1AT074-07
9.47"	3EA026-18	8RF026-18	1AT074-08
10.7"	3EA026-19**	8RF026-19	1A074-09
12.7"	3EA026-20**	8RF026-20	1A074-10

* Autopak is the recommended replacement packing. Use with existing filler ring if possible.

** Two additional spacers are included with these sets.

- Plungers under 9.47 manufactured until 1965. Plungers 9.47 and larger manufactured until 1993.
- Always reuse existing filler ring when possible instead of supplied spacer.
- May require gasket (not included) if completely disassembled.
- Uses bronze gland.

Questions? Answers at...

Montgomery [Hone]

Montgomery [Hone]—Machined

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)	Split Autopak Set Number*
3 ¹⁵ / ₁₆ "	3EA026-11	8RF026-11	1AT074-01
4.46"	3EA026-12	8RF026-12	1AT074-02
5.52"	3EA026-13	8RF026-13	1AT074-03
5.72"	9EA026-14	9RF026-14	1AT074-04
6.59"	3EA026-15	8RF026-15	1AT074-05
7.47"	3EA026-16	8RF026-16	1AT074-06
8.57"	3EA026-17	8RF026-17	1AT074-07

* Autopak is the recommended replacement packing.
Use with existing filler ring if possible.

- Manufactured since 1966.
- Always reuse existing filler ring when possible instead of supplied spacer.
- Uses bronze gland.

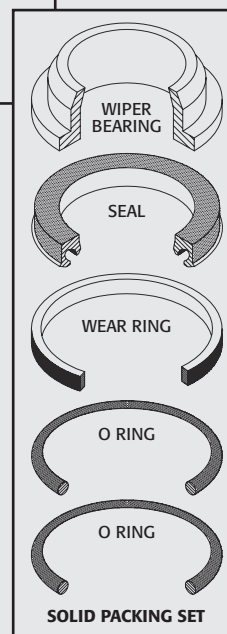
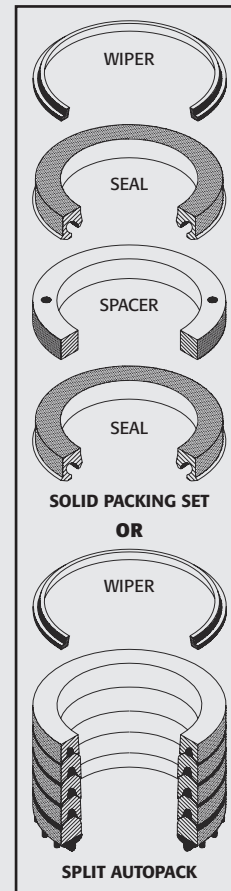
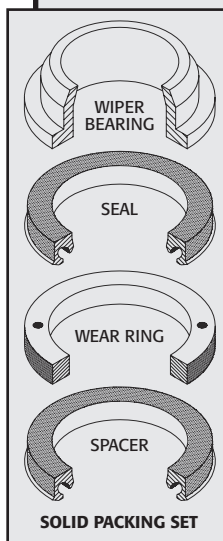
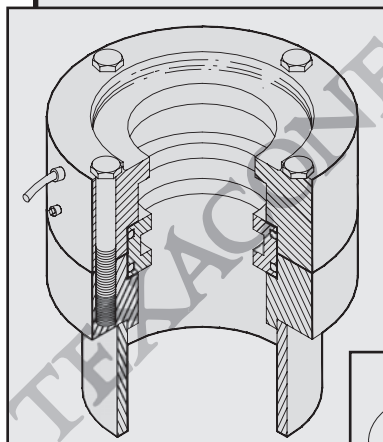
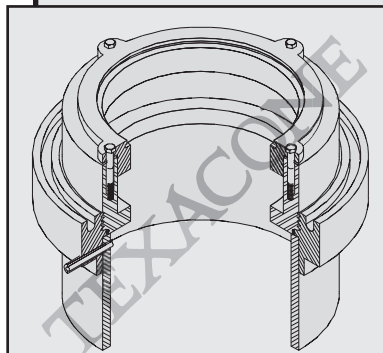
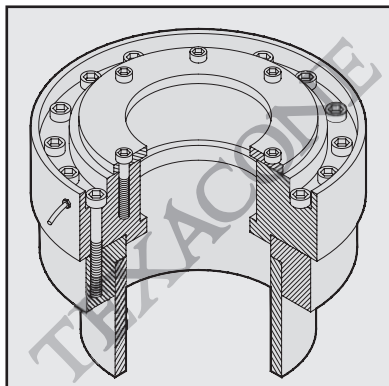
Montgomery [Hone]—Holeless

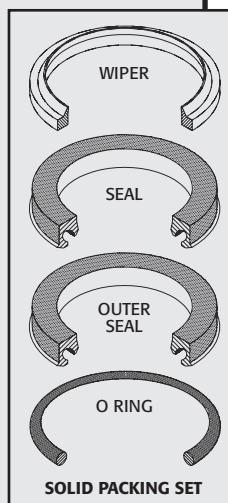
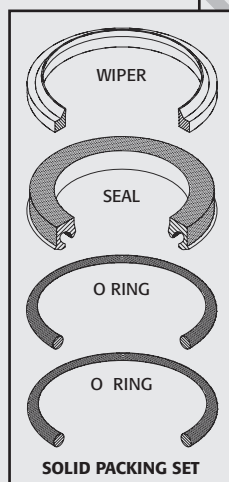
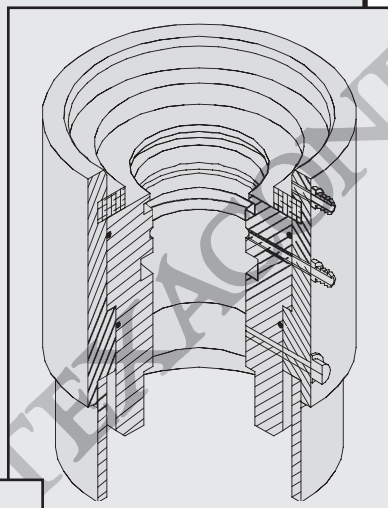
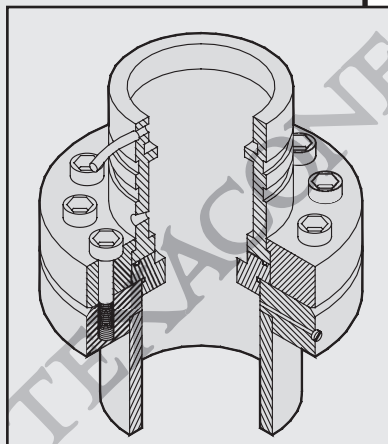
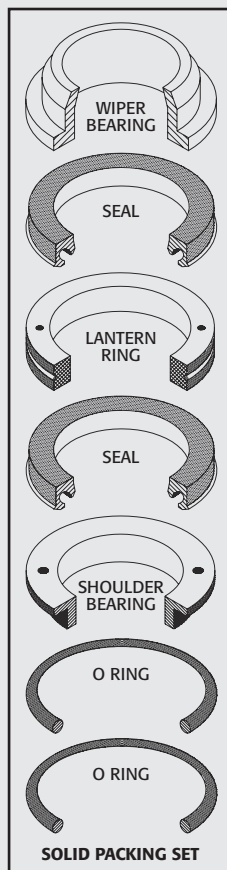
Plunger Size	Solid Packing Set Number	Replacement Seal Number (2 required)
2.84"	6EA018-03	8E009
3"	6EA018-01	8E002
3 ¹ / ₂ "	6EA018-02	8E004

- Some older units do not have groove for wear ring.
- Usually need (2) sets per car.

Montgomery [Hone]—1993

Plunger Size	Solid Packing Set Number	Replacement Seal Number (2 required)
8.57"	3EA026-25	6E064
9.47"	3EA026-24	6E039
10.7"	3EA026-21	6E051
12.7"	3EA026-22	6E052





Mowrey Northern

Mowrey

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)
4 $\frac{3}{8}$ " (4m)	6EA063-01	8RF063-01
5 $\frac{7}{16}$ " (5m)	6EA063-02	8RF063-02
6 $\frac{1}{2}$ " (6m)	6EA063-03	8RF063-03
63mm	6EA063-04*	7E020*

*This set contains only wiper, seal, and bearing.
Requires (1) seal for replacement.

• All dimensions in inches unless otherwise stated.

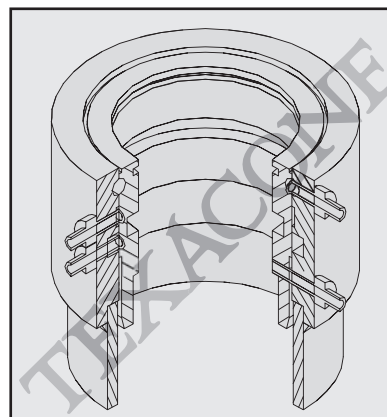
• Usually does not have grooves on barrel.

Northern HPH

Plunger Size	Cross Section	Solid Packing Set Number	Replacement Seal Number (1 required)
3"	$\frac{3}{8}$	6EA123-01	6E237SF
3 $\frac{1}{2}$ "	$\frac{3}{8}$	9EA123-02	9E108
4"	$\frac{3}{8}$	9EA123-03	9E110
4 $\frac{1}{2}$ "	$\frac{3}{8}$	9EA123-04	9E016
5"	$\frac{3}{8}$	9EA123-05	9E039
5 $\frac{1}{2}$ "	$\frac{3}{8}$	6EA123-06	6E188SF
6"	$\frac{3}{8}$	9EA123-07	9E040
6 $\frac{1}{2}$ "	$\frac{3}{8}$	6EA123-08	6E273SF

Northern MPH

Plunger Size	Cross Section	Solid Packing Set Number
3"	$\frac{3}{8}$	6EA122-01
3 $\frac{1}{2}$ "	$\frac{3}{8}$	9EA122-02
4"	$\frac{3}{8}$	9EA122-03
4 $\frac{1}{2}$ "	$\frac{3}{8}$	9EA122-04
5"	$\frac{3}{8}$	9EA122-05
5 $\frac{1}{2}$ "	$\frac{1}{2}$	9EA122-06
6"	$\frac{1}{2}$	9EA122-07
6 $\frac{1}{2}$ "	$\frac{1}{2}$	9EA122-08



Questions? Answers at...

Northern Oil Lift Systems

Northern QPH

Plunger Size	Cross Section	Solid Packing Set Number	Replacement Seal Number (1 required)
2½"	⅜"	9EA095-10*	9E046
3"	⅜"	9EA095-01	9E031
3½"	⅜"	9EA095-02	9E108
3½"	½"	9EA095-05	9E029
4"	⅜"	9EA095-03	9E110
4"	½"	9EA095-06	9E034
4½"	⅜"	9EA095-04	9E016
4½"	½"	9EA095-07	9E012
4.96"	⅜"	9EA095-11	9E039
5"	⅜"	9EA095-08	9E039
5½"	½"	9EA095-12	9E019
6"	½"	9EA095-13	9E032
6.48"	½"	9EA095-17	9E083
6½"	½"	9EA095-14	9E024
7"	½"	9EA095-15	9E105
7½"	½"	9EA095-16	9E054
8½"	½"	9EA095-09	9E087

* No O Ring available.

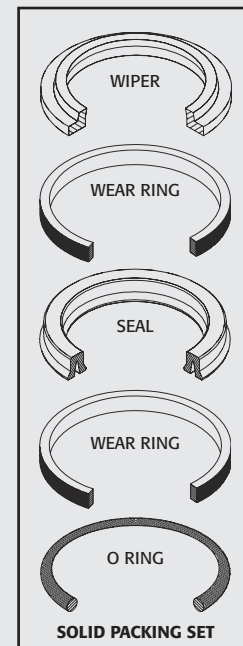
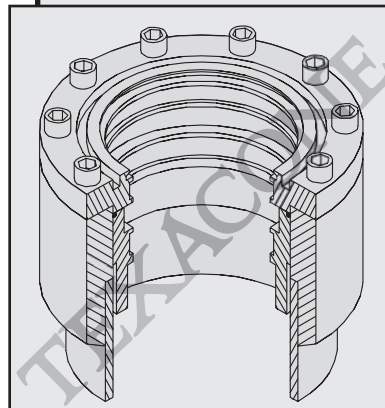
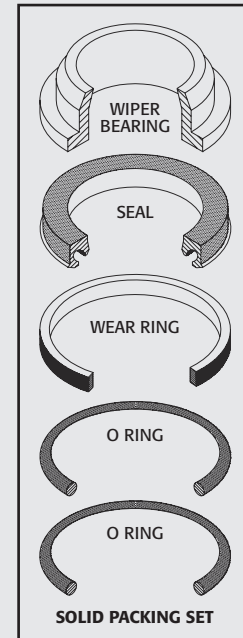
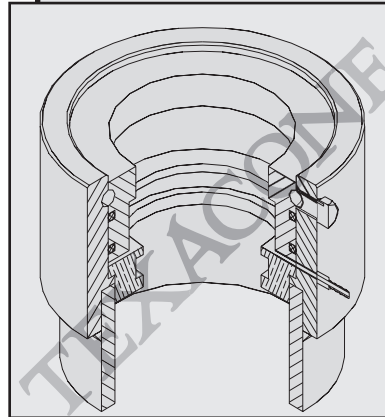
Oil Lift Systems (OLS, GMV) Single Stage

Plunger Size	Solid Packing Set Number*
50mm	9EA133-08
60mm	9EA133-07
70mm	9EA133-01
80mm	9EA133-02
90mm	9EA133-03
100mm	9EA133-04
110mm	9EA133-05
120mm	9EA133-06
130mm	9EA133-09
150mm	9EA133-10
180mm	9EA133-11
200mm	9EA133-12**
238mm	9EA133-13**

* Wiper not available on some sets.

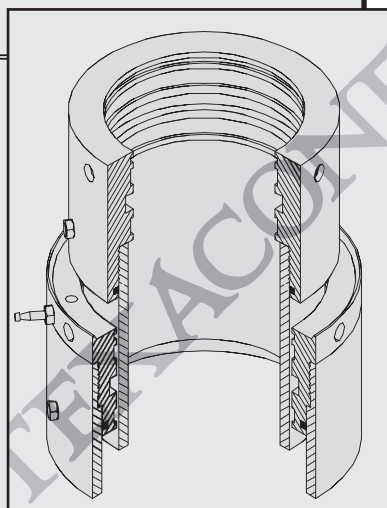
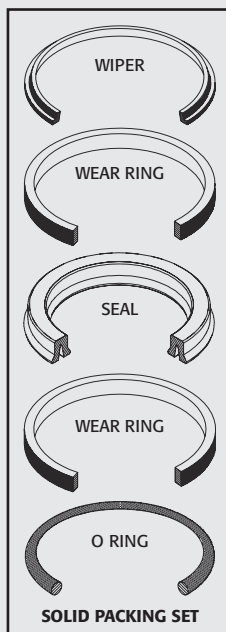
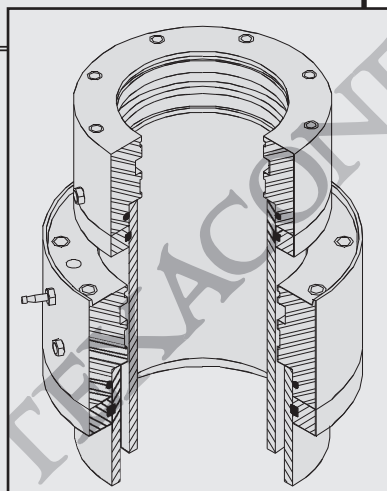
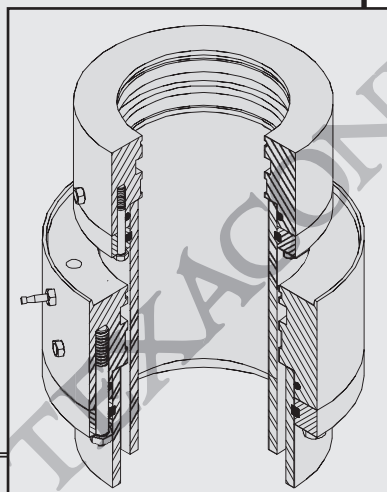
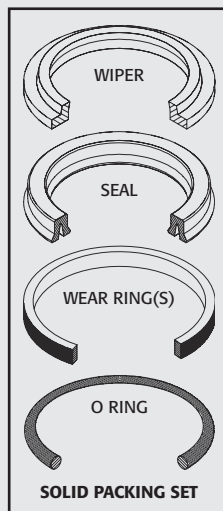
** Call for availability.

• Some sets contain several O Rings for single stage or "S" telescopic.



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Oil Lift Systems

Oil Lift Systems "H" Bottom Bolt Telescopic

Plunger Size	Solid Packing Set Number*
42mm	9EA141-01
50mm	9EA141-02
56mm	9EA141-03
63mm	9EA141-04
70mm	9EA141-05
85mm	9EA141-06
100mm	9EA141-07
120mm	9EA141-08
140mm	9EA141-09
170mm	9EA141-10
200mm	9EA141-11

* Call for availability of complete set.

Oil Lift Systems "H" Top Bolt Telescopic

Plunger Size	Solid Packing Set Number*
42mm	-
50mm	-
56mm	-
63mm	-
70mm	-
85mm	-
100mm	-
120mm	-
140mm	-
170mm	-
200mm	-

* Call for availability of complete set.

Oil Lift Systems [OLS, GMV] "S" Telescopic

Plunger Size	Solid Packing Set Number*
42mm	9EA133-14
50mm	9EA133-08
56mm	9EA133-15
63mm	9EA133-16
70mm	9EA133-01
85mm	9EA133-17
100mm	9EA133-04
120mm	9EA133-06
140mm	9EA133-18
170mm	9EA133-19
200mm	9EA133-12**

* Wiper not available on some sets.

** Call for availability.

• Some sets contain several O Rings for Single Stage or "S" Telescopic.

Questions? Answers at...

Otis—Cast Head (Mfrd. prior to 1974)

Plunger Size Actual (Nom)	Solid Packing Set Number	Seals Only Set Number (1 required)	Split Autopak Set Number*
3 ⁷ / ₈ " (4)	6EA001-01	8RF001-01	1AT085-01
4 ³ / ₈ " (4½)	6EA001-02	8RF001-02	1AT085-02
5 ⁷ / ₁₆ " (5½)	6EA001-03	8RF001-03	1AT085-03
6½" (6½)	6EA001-04	8RF001-04	1AT085-04
7½" (7½)	6EA001-05	8RF001-05	1AT085-05
8½" (8½)	6EA001-06	8RF001-06	1A085-06
9½" (9½)	6EA001-07	8RF001-07	1A085-07
10 ⁵ / ₈ " (10½)	6EA001-08	8RF001-08	1A085-08
12 ⁵ / ₈ " (12½)	6EA001-09	8RF001-09	1A085-09
13¾" (14)	6EA001-10	8RF001-10	1A085-10
15¾" (16)	6EA001-11	8RF001-11	1A085-11

* Can use existing bearing with Autopak set. Place on top of packing set. (3) shims also included.

Otis—AP Welded (Mfrd. 1974-1993)

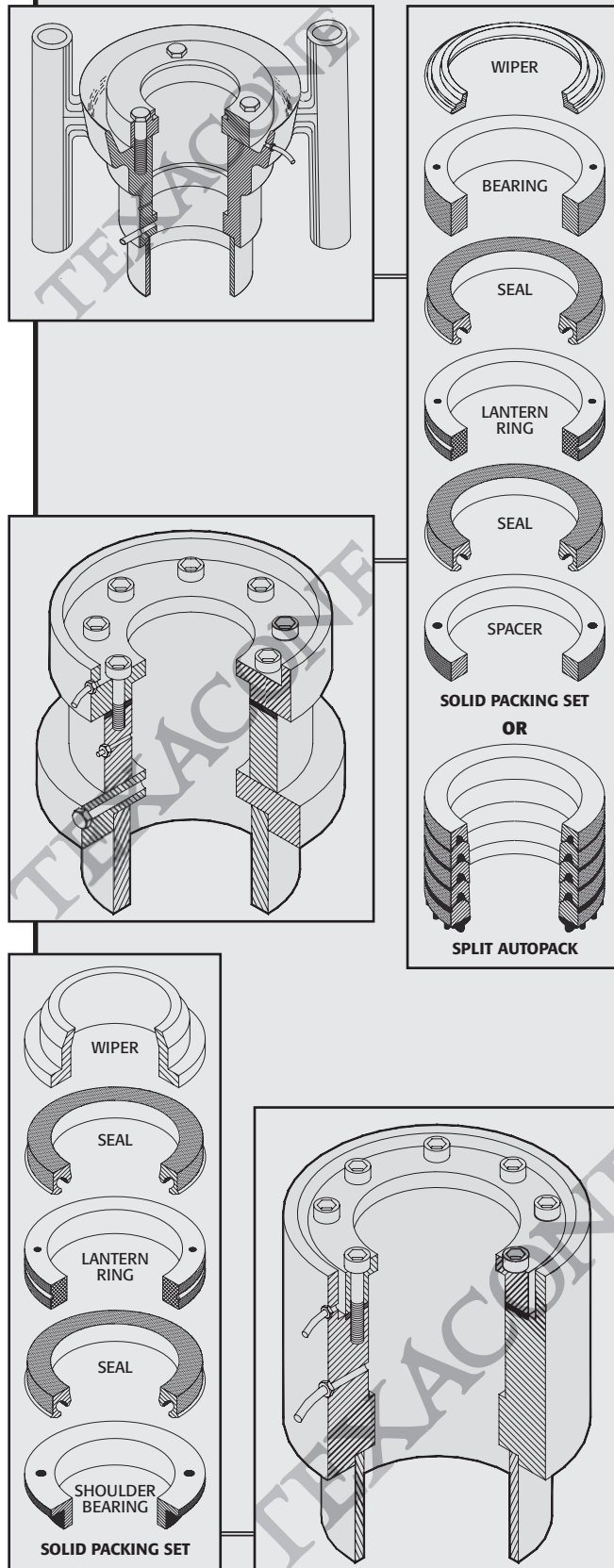
Plunger Size Actual (Nom)	Solid Packing Set Number	Seals Only Set Number (1 required)
3 ⁷ / ₈ " (4)	6EA114-05	8RF114-05
4 ³ / ₈ " (4½)	6EA114-06	8RF114-06
4 ⁷ / ₈ " (5)	6EA114-09	8RF114-09
5 ⁷ / ₁₆ " (5½)	6EA114-07	8RF114-07
6½" (6½)	6EA114-08	8RF114-08

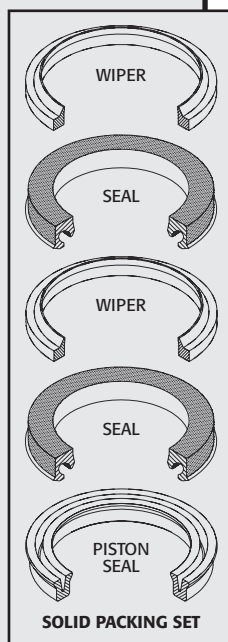
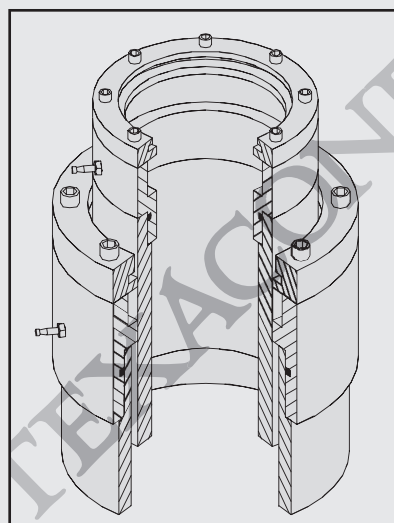
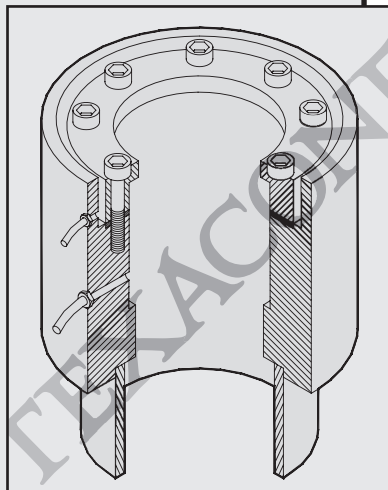
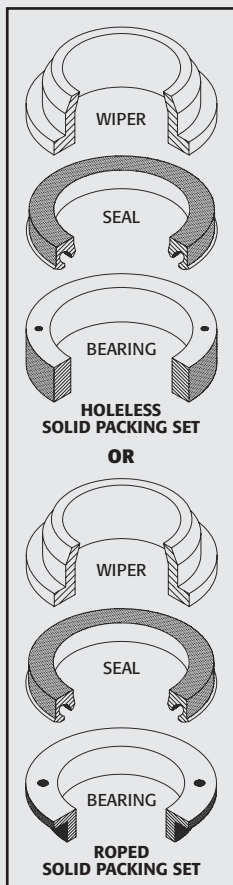
*Seals provided as Reduced Friction.

Otis—AP Welded (Mfrd. after 1993)

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)
3 ⁷ / ₈ "	6EA114-05	8RF114-05
3.93"	6EA114-01	8RF114-01
4 ³ / ₈ "	6EA114-06	8RF114-06
4.43"	6EA114-02	8RF114-02
5 ⁷ / ₁₆ "	6EA114-07	8RF114-07
5.50"	6EA114-03	8RF114-03
6½"	6EA114-08	8RF114-08
6.56"	6EA114-04	8RF114-04

*Seals provided as Reduced Friction.





Otis

Otis—Holeless

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
2¾"	9EA128-01	9E104
2.84"	9EA128-02	9E001

• Usually need (2) sets per car for Holeless.

Otis—Roped

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
3.93"	6EA104-01	8E017
4.43"	6EA104-02	8E006
5.50"	6EA104-03	8E020

Otis—Telescopic

Plunger Size	Solid Packing Set Number
3.00/4.62"	9EA067-01
3.52/5.10"	9EA067-02
4.37/6.32"	9EA067-03
3.87/5.71"	9EA067-04
3.00/4.62"*	9EA067-05

*Unit manufactured after 1977.

Questions? Answers at...

Otis/Cemco Plunger Lift Portaflex

Otis/Cemco

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)*
3 ⁷ / ₈ "	6EA110-05	8RF110-05
3.93"	6EA110-01**	8RF110-01
4 ³ / ₈ "	6EA110-06	8RF110-06
4.43"	6EA110-02**	8RF110-02
5 ⁷ / ₁₆ "	6EA110-07	8RF110-07
5.50"	6EA110-03**	8RF110-03
6 ¹ / ₂ "*	6EA110-10	8RF110-10
6.56"	6EA110-09**	8RF110-09
6.56"*	6EA110-11	8RF110-11

*These cylinder heads look like the Cemco-Flange head.

**Additional wear ring included in these sets.

Plunger Lift

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)*
4"	9EA034-01	9E078
5"	9EA034-02	9E080
6"	9EA034-03	9E082
7"	9EA034-04	9E105

• Head shown is with steel ring. The other version has a brass ring and uses a different packing set.

• Call for availability

Porta-flex (C.E.E.)

Plunger Size	Solid Packing Set Number*
1 ³ / ₄ / 2 ³ / ₄ / 3 ³ / ₄ "	6EA149-01
2 ¹ / ₄ / 3 / 4 ¹ / ₄ "	6EA149-02
3 / 4 / 5 ¹ / ₂ "	6EA149-03
3 ¹ / ₂ / 4 ¹ / ₄ / 6 ¹ / ₄ "	6EA149-04

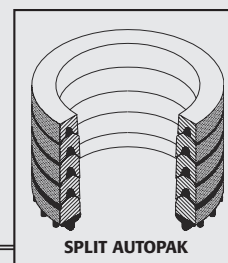
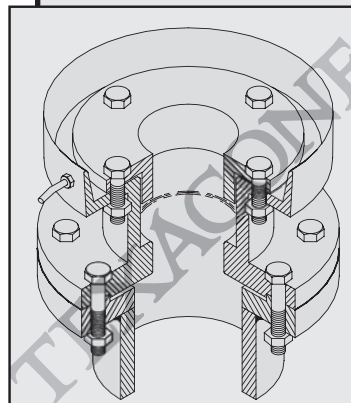
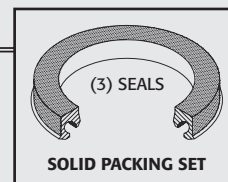
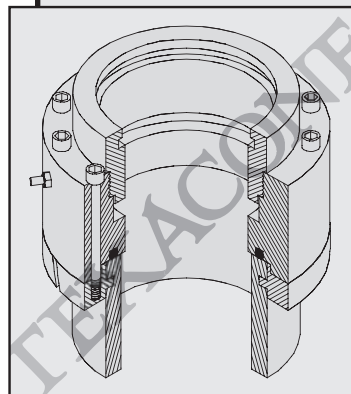
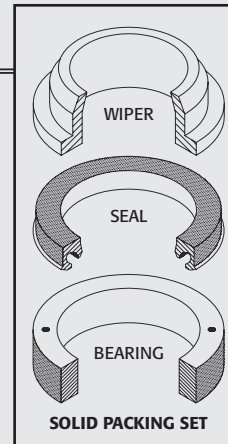
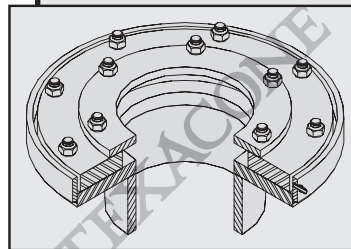
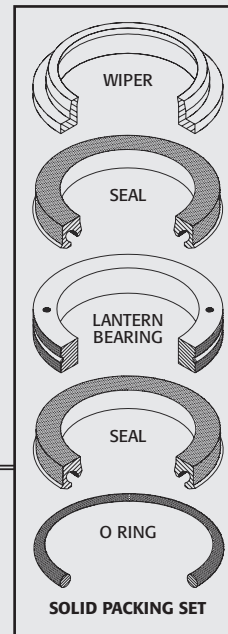
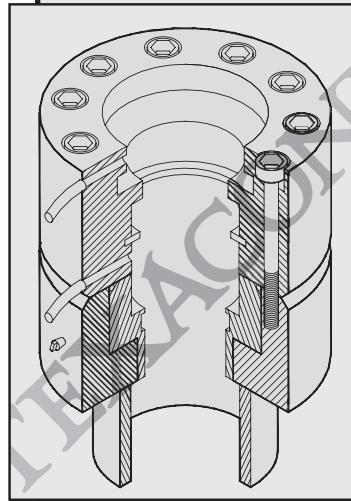
* Call for availability

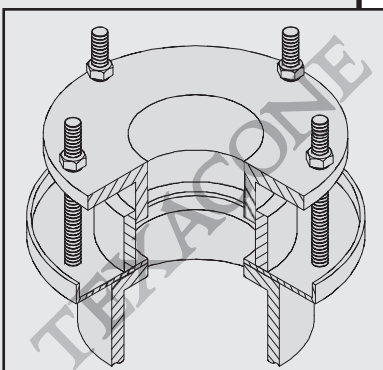
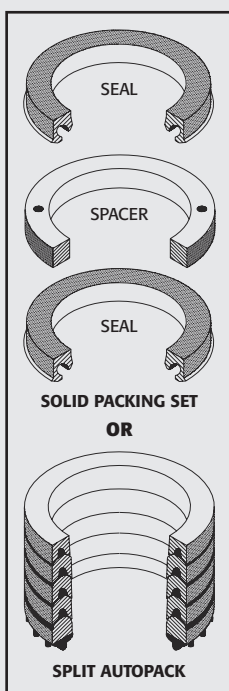
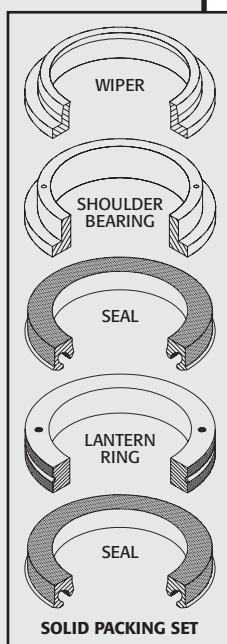
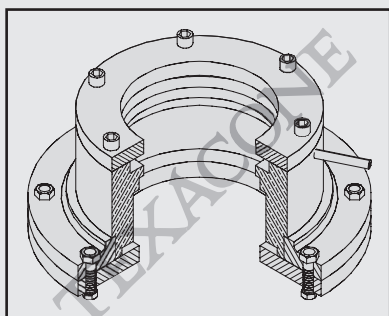
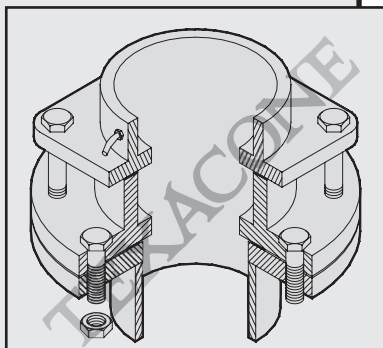
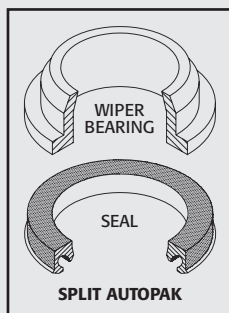
R & O—Cast Head

Plunger Size	Split Autopak Set Number*
4 ³ / ₈ "	1AT090-01
4 ¹ / ₂ "	1AT090-02
5 ⁷ / ₁₆ "	1AT090-03
5 ¹ / ₂ "	1AT090-04
6 ¹ / ₂ "	1AT090-05
8 ¹ / ₂ "	1AT090-06
10 ¹ / ₂ "	1AT090-07

• Manufactured prior to 1971.

• May require gasket (not included) if completely disassembled.





R&O Richmond San Jose

R & O—Model 71 & 76

Plunger Size	Solid Packing Set Number	Replacement Seal Set Number (1 required)
4 ³ / ₈ "	6EA013-01	8E007
5 ⁷ / ₁₆ "	6EA013-02	8E203
6 ¹ / ₂ "	6EA013-03	6E026

- Model 71: manufactured 1971 to 1975
- Model 76: manufactured 1975 to 1978

Richmond

Plunger Size	Solid Packing Set Number	Replacement Seal Set Number (2 required)
4 ³ / ₈ "	9EA142-01	9E044
5 ⁷ / ₁₆ "	9EA142-02	9E128
6 ¹ / ₂ "	9EA142-03	9E083

San Jose

Plunger Size	Solid Packing Set Number	Replacement Seal Number (2 required)	Split Autopak Set Number
4 ¹ / ₂ "	6EA066-01	3E059	1A093-01
5 ¹ / ₂ "	6EA066-02	3E096	1A093-02
6 ¹ / ₂ "	6EA066-03	3E051	1A093-03
7 ¹ / ₂ "	6EA066-04	3E041	1A093-04
8 ¹ / ₂ "	6EA066-05	3E098	1A093-05

- Packing Sets and Autopak are ³/₄" cross section.

Questions? Answers at...

Schindler Southeastern

Schindler—MPH2 (Martin, D.L.)

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
3½"	9EA113-01	9E048
3¾"	9EA113-02	9E050
4"	9EA113-03	9E049
4½"	9EA113-04	9E021
5"	9EA113-05	9E023
5½"	9EA113-06	9E015
6"	9EA113-07	9E005
6½"	9EA113-08	9E013
7"	9EA113-09	9E131
8"	9EA113-10	9E135

- Manufactured since 1989 by D.L. Martin.
- Packing sets are ¼ cross section.
- Some units have been field retrofitted to accept ¾ or ½ cross section seals. Please call for availability.
- Early units had (4) bolts, (2) rings. Later units had (2) bolts, (1) O Ring
- Easily confused with Westinghouse MPH1 which was manufactured before 1989. Notice outside cylinder head wall is much shorter than MPH1.

Schindler—Telescopic (321A & 330)

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
60mm	9EA130-01*	9E059
75mm	9EA130-02*	9E060
90mm	9EA130-03*	9E025
105mm	9EA130-04	9E026

* Additional O Ring included for foot piece.

- Inverted Cylinder
- See chart below for model number requirements.

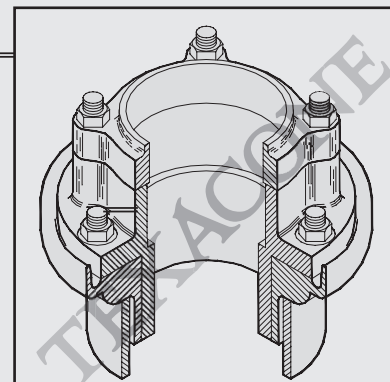
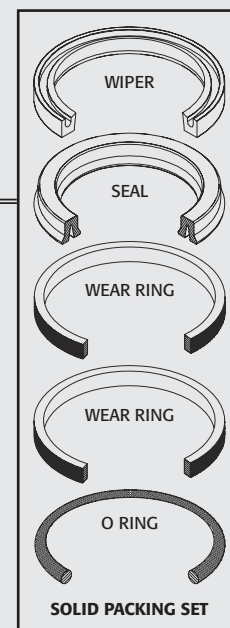
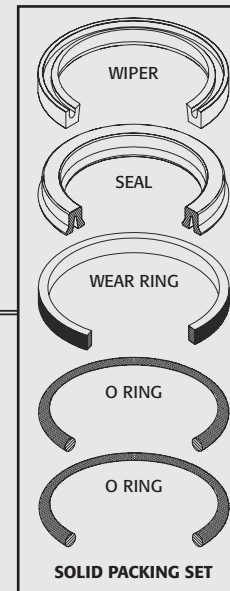
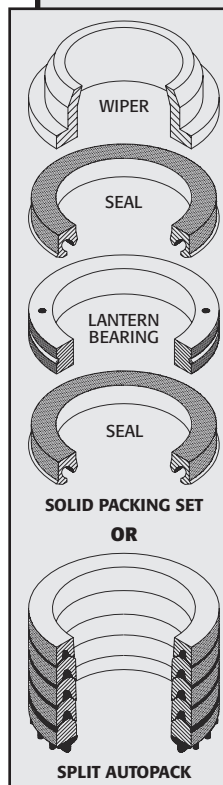
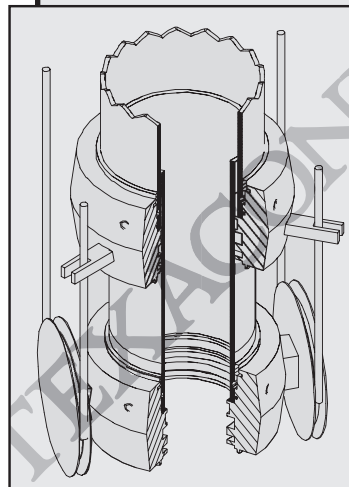
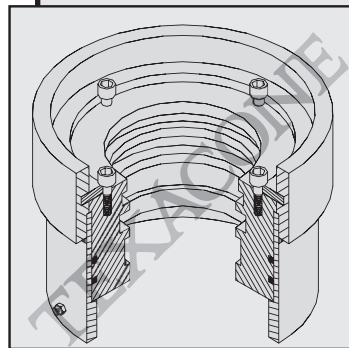
Solid Packing Set Number	Model Number			
	60-2Y	75-2Y	90-2Y	75-3Y
60mm	X			X
75mm	X	X		X
90mm		X	X	X
105mm			X	X

Southeastern (Manufactured in the 1960s)

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 req.)	Split Autopak Set Number
4¾"	6EA007-01	8RF007-01	1AT086-01
5"	6EA007-02	8RF007-02	1AT086-02
5½"	6EA007-03	8RF007-03	1AT086-03
6½"	6EA007-04	8RF007-04	1AT086-04
6¾"	6EA007-05	8RF007-05	1AT086-05
7½"	6EA007-06	8RF007-06	1AT086-06
8½"	6EA007-07	8RF007-07	1AT086-07
9½"	6EA007-08	8RF007-08	1AT086-08
10⅝"	6EA007-09	8RF007-09	1AT086-09
12⅝"	6EA007-10	8RF007-10	1AT086-10

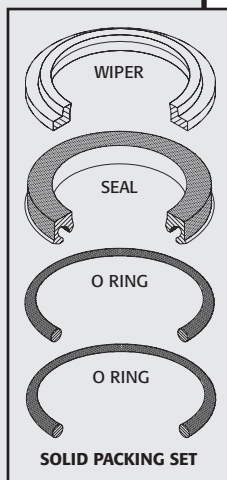
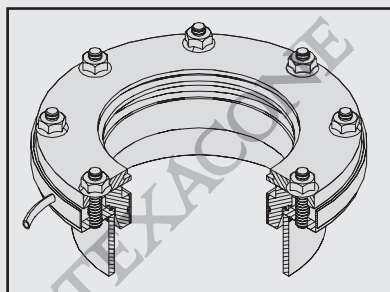
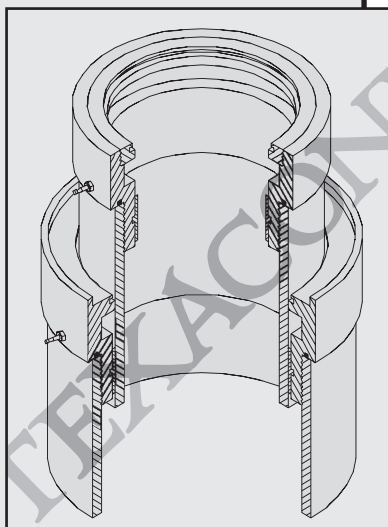
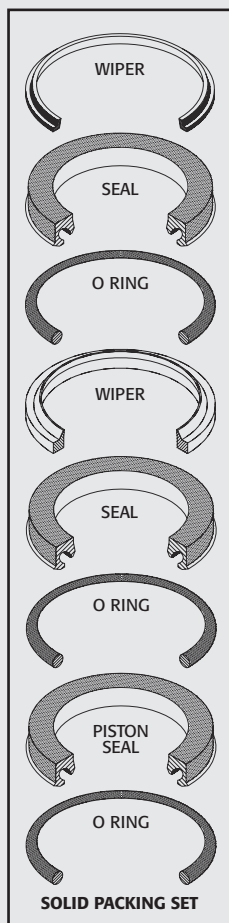
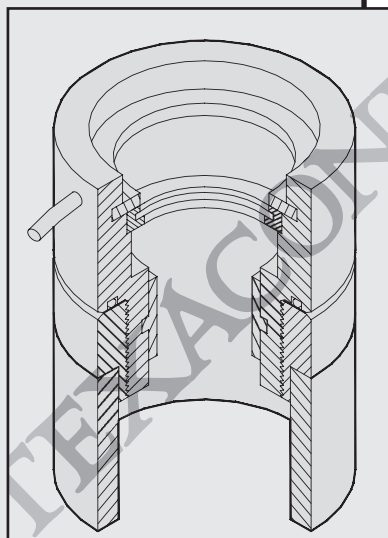
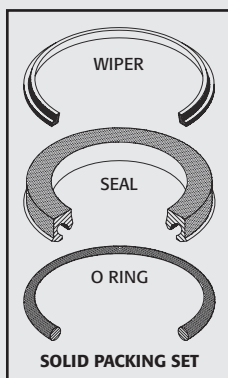
- Number of bolts on head may vary; sometimes only (3).
- May require gasket (not included) if completely disassembled.
- May have SH, SE, or SF stamped on head.
- Older units have bronze gland and no wiper.

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Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Thyssenkrupp (Dover)

Thyssenkrupp (Dover) Holeless

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
3" (2S)	9EA023-27	9E051
3 ⁷ / ₈ " (3S)	9EA023-22	9E002
4 ³ / ₈ " (4S)	9EA127-01	9E003
5 ⁷ / ₁₆ " (5S)	9EA127-02	9E014
6 ¹ / ₂ " (6S)	9EA127-03	9E024
7 ¹ / ₂ " (7S)	9EA127-04*	9E054

* O Ring not available.

- Manufactured since 2001.
- Split plastic Wear Ring available on request.
- 4S, 5S, 6S packing sets have extra O Rings.
- Some older units may not have groove for wiper.

Thyssenkrupp (Dover) Telescopic

Plunger Size	Solid Packing Set Number
2 ¹ / ₂ / 3 ³ / ₄ "	9EA023-28
3 / 4 ¹ / ₄ "	9EA023-29
2 ¹ / ₂ / 3 ³ / ₄ / 5"	9EA023-33

- For best results use T-K telescopic installation tool.
- Piston seal cavity is not externally visible.
- Split plastic Wear Ring is available on request.

Thyssenkrupp—Rota U-Cup

Plunger Size	Solid Packing Set Number	Replacement Seal Number (1 required)
4 ³ / ₈ " (4S)	9EA127-01	9E003
5 ⁷ / ₁₆ " (5S)	9EA127-02	9E014
6 ¹ / ₂ " (6S)	9EA127-03	9E024

- Manufactured as of 2005. Looks similar to Dover-Rota except uses flange type nuts and conventional U-cup seal
- All sets have extra O Rings.
- Split plastic Wear Ring available on request.

Questions? Answers at...

United

Plunger Size	Solid Packing Set Number	Replacement Seal Number (2 required)
3 ⁵ / ₁₆ "	6EA033-01	6E019
4"	6EA033-20	6E005
4 ⁷ / ₁₆ "	6EA033-02	6E032
4 ¹ / ₂ "	6EA033-21	6E168SF
5"	6EA033-03	6E020
5 ¹ / ₂ "	6EA033-04	6E221SF
5 ⁹ / ₁₆ "	6EA033-27	6E050SF
6"	6EA033-13	6E028
6 ¹ / ₂ "	6EA033-05	6E024
6 ⁹ / ₁₆ "	6EA033-14	6E031
6 ⁵ / ₈ "	6EA033-06	6E186SF
7 ¹ / ₂ "	6EA033-16	6E029
7 ⁹ / ₁₆ "	6EA033-07	6E059
7 ⁵ / ₈ "	6EA033-17	9E037
8 ¹ / ₂ "	6EA033-18	6E030
8 ⁹ / ₁₆ "	6EA033-08	6E064
8 ⁵ / ₈ "	9EA033-19*	9E056

* Wiper is different than shown in picture

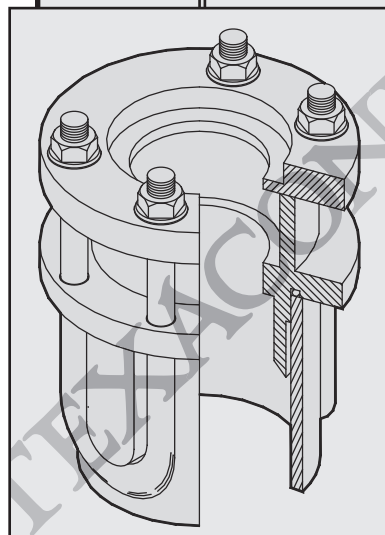
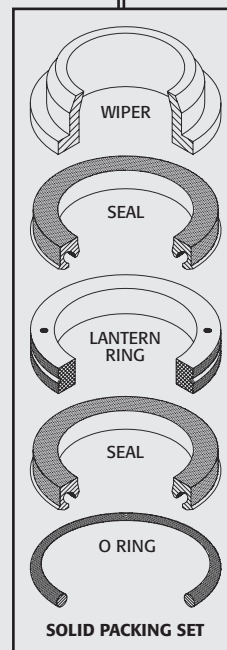
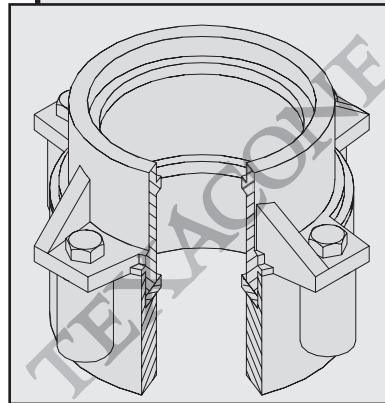
- Lantern supplied with set but reuse existing lantern bearing if possible.
- Some sets contain several O Rings for different cylinder types and sizes.
- Usually requires (1) seal for 5⁹/₁₆" and under; (2) seals for 6" and over. All sets shown contain (2) seals.

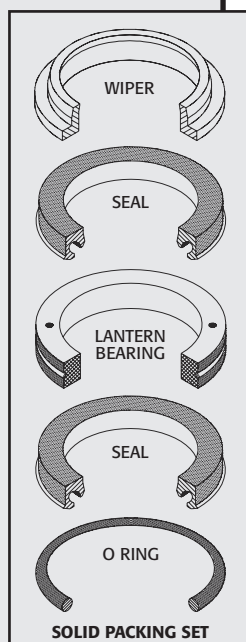
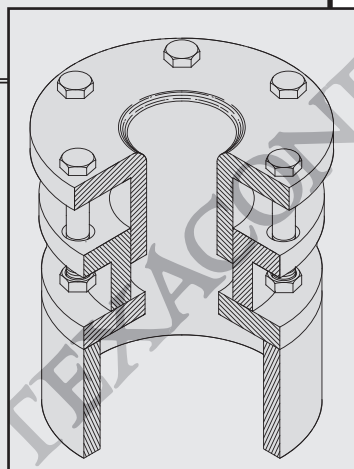
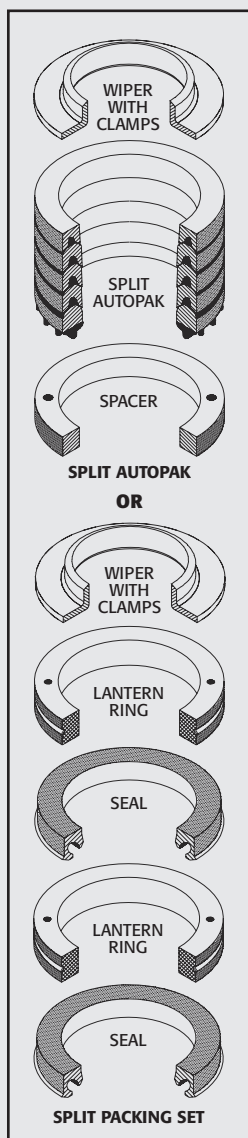
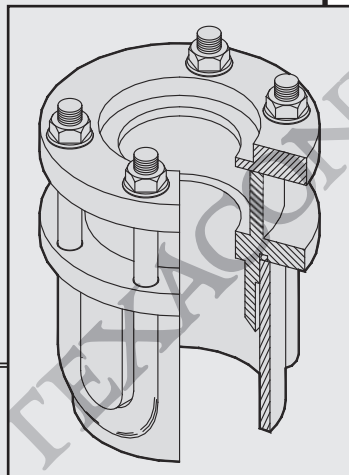
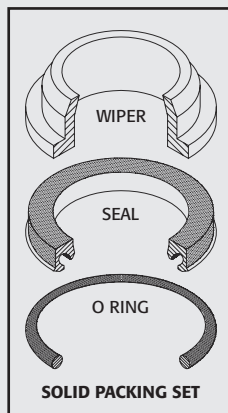
United—"U" Bolt

Plunger Size	Solid Packing Set Number	Replacement Seal Number (2 required)
4"	6EA033-20	6E005
4 ¹ / ₂ "	6EA033-21	6E168SF
5"	6EA033-03	6E020
5 ⁹ / ₁₆ "	6EA033-13	6E050SF
6"	6EA033-05	6E028
6 ¹ / ₂ "	6EA033-14	6E024
6 ⁵ / ₈ "	6EA033-15	6E186SF
7 ¹ / ₂ "	6EA033-16	6E029
7 ⁵ / ₈ "	6EA033-17	9E037
8 ¹ / ₂ "	6EA033-18	6E030
8 ⁵ / ₈ "	9EA033-19*	9E056

* Wiper is different than shown in picture

- Lantern supplied with set but reuse existing lantern bearing if possible.
- Some sets contain several O Rings for different cylinder types and sizes.
- Usually requires (1) seal for 5⁹/₁₆" and under; (2) seals for 6" and over. All sets shown contain (2) seals.





United U.S. Elevator

United—Holeless

Plunger Size	Cross Section	Solid Packing Set Number	Replacement Seal Number (1 required)
2 3/8"	1/2	6EA033-09****	6E218SF
2 7/8"	1/2	6EA033-10	6E156SF
3 1/2"*	3/8	6EA033-11	6E157SF
3 1/2"***	7/16	6EA033-12	6E152SF
3 1/2"****	1/2	9EA033-22	9E029
4"	1/2	6EA033-23	6E005
4 1/2"	1/2	6EA033-24	6E168SF

* Manufactured before April 1988.

** Manufactured from April 1988 to Sept 2000.

*** Manufactured after Oct 2000.

**** Wiper not available.

• Some sets contain several O Rings for different cylinder types and sizes.

U.S.—Aluminum

Plunger Size	Split Autopak Set Number	Split Packing Set Number
3 7/8"	1AT118-01	6EA107-06
4"	1AT118-02	6EA107-01
4 1/2"	1AT118-03	6EA107-02
5"	1AT118-04	6EA107-03
5 1/2"	1AT118-05	6EA107-04
6"	1AT118-06	6EA107-09
7"	1AT118-07	6EA107-10

* Autopak is recommended packing.

• Solid packing set available 6EA116-XX.

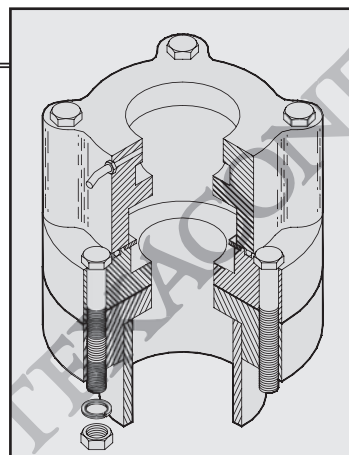
• Manufactured prior to 1983.

• May have more than (4) bolts.

U.S.—MT

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)
4"	6EA012-01	8RF012-01
4 1/2"	6EA012-02	8RF012-02
5"	6EA012-03	8RF012-03
5 1/2"	6EA012-04	8RF012-04
6"	6EA012-05	8RF012-05
6 1/2"	6EA012-06	8RF012-06
7"	6EA012-07	8RF012-07

• Manufactured from 1983 to 1986.



Questions? Answers at...

U.S.—Econohead

Plunger Size Actual (Nom)	Solid Packing Set Number	Replacement Seal Number (1 required)
2.81" (2 $\frac{7}{8}$)	9EA145-01	9E107
3.72" (3 $\frac{3}{4}$)	6EA145-02	6E114SF
3.95" (4)	9EA145-03	9E034
4.45" (4 $\frac{1}{2}$)	9EA145-04	9E012
4.97" (5)	9EA145-05	9E080
5.49" (5 $\frac{1}{2}$)	9EA145-06	9E019
5.97" (6)	9EA145-07*	9E082
6.49" (6 $\frac{1}{2}$)	9EA145-08	9E083
6.53" (6 $\frac{5}{8}$)	9EA145-09	9E112

* Only seals and O Ring available.

• Units manufactured prior to 1990 use only (1) seal.

Set numbers 6EA069, 6EA083-XX and 6EA112-XX discontinued.

U.S.—Bench Pack—BPE

Plunger Size Actual (Nom)	Solid Packing Set Number	Replacement Seal Number (1 required)
2.81" (2 $\frac{7}{8}$)	6EA111-05	8E010
3.95" (4)	6EA111-01	8E058
4.44" (4 $\frac{1}{2}$)	6EA111-02	8E059
5.49" (5 $\frac{1}{2}$)	6EA111-03	8E029
6.56" (6 $\frac{5}{8}$)	6EA111-04	8E060

* Bearing not supplied. Use split wear ring only.

• Packing Sets include parts for both Bench Pack & PS97.

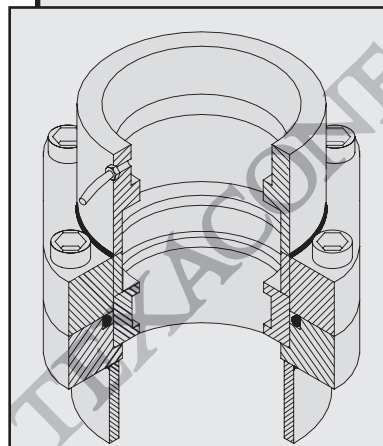
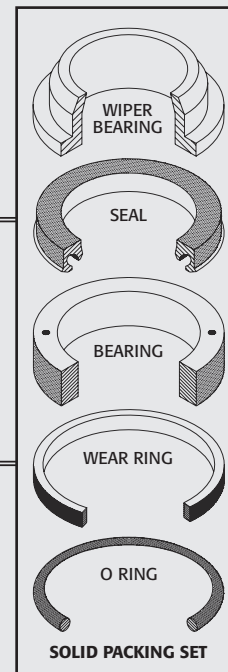
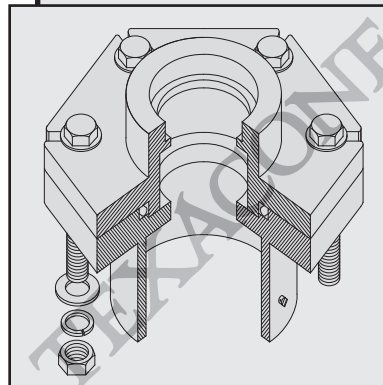
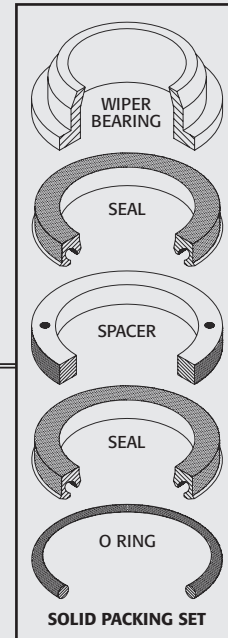
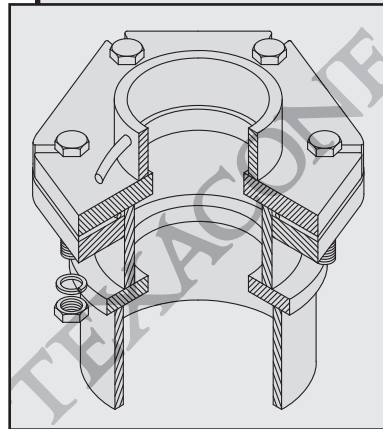
• Manufactured from 1994 to 1997.

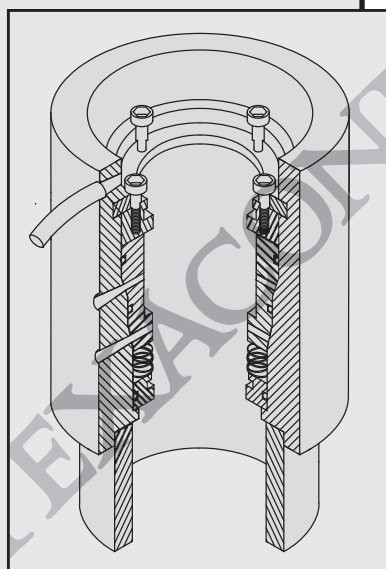
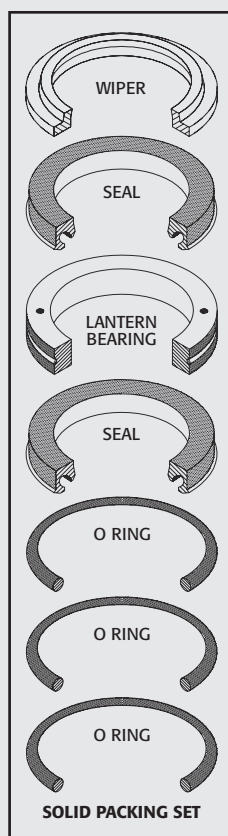
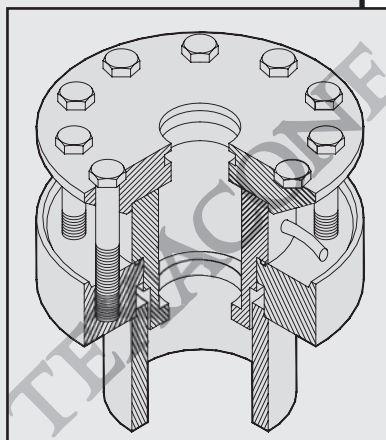
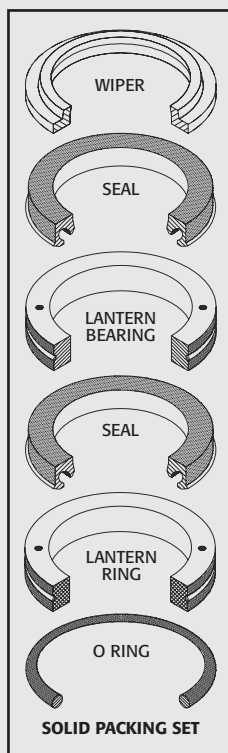
U.S.—PS97 & Roped

Plunger Size Actual (Nom)	Solid Packing Set Number	Replacement Seal Number (1 required)
2.81" (2 $\frac{7}{8}$)	6EA111-05*	8E010
3.44" (3 $\frac{1}{2}$)	6EA111-06*	8E102
3.95" (4)	6EA111-01	8E058
4.44" (4 $\frac{1}{2}$)	6EA111-02	8E059
5.49" (5 $\frac{1}{2}$)	6EA111-03	8E029
6.56" (6 $\frac{5}{8}$)	6EA111-04	8E060
8.52" (8 $\frac{1}{2}$)	9EA111-07*	9E096

* Bearing not supplied. Use split wear ring only.

• Packing Sets include parts for both Bench Pack & PS97.





Westinghouse

Westinghouse — Bolted [E Series]

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)
4"	6EA117-01	8RF117-01
4½"	6EA117-02	8RF117-02
5½"	6EA117-03	8RF117-03
6"	6EA117-04	8RF117-04
6½"	6EA117-05	8RF117-05

Westinghouse—MPH1

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)*
3½"	6EA025-01	8RF025-01
3¾"	6EA025-02	8RF025-02
4"	6EA025-03	8RF025-03
4½"	6EA025-04	8RF025-04
5½"	6EA025-05	8RF025-05
6"	6EA025-06	8RF025-06
6½"	6EA025-07	8RF025-07
7"	6EA025-08	8RF025-08
8"	6EA025-09	8RF025-09

- * Easily confused with Schindler MPH2 which has been manufactured since 1989. Notice outside cylinder head wall is much longer than MPH2.

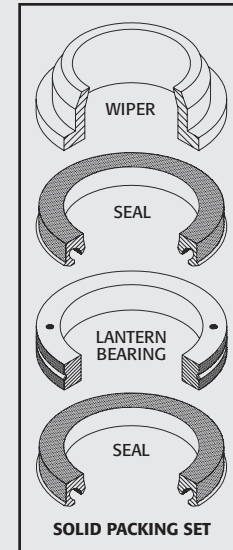
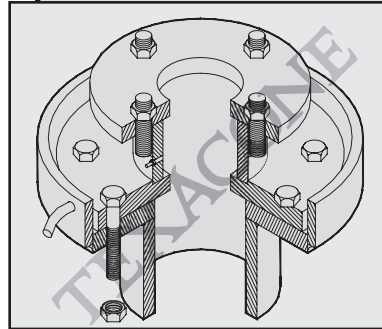
Questions? Answers at...

White-Evans Winter & Bain

White-Evans

Plunger Size	Solid Packing Set Number*	Seals Only Set Number (1 required)*
4 ³ / ₈ "	6EA125-01	6E206SF
4 ¹ / ₂ "	6EA125-10	6E003
5 ³ / ₈ "	6EA125-02	6E047
5 ⁷ / ₁₆ "	6EA125-03	6E219SF
5 ¹ / ₂ "	6EA125-04	6E221SF
6 ¹ / ₂ "	6EA125-05	6E208SF
7"	6EA125-06	6E035
7 ¹ / ₂ "	6EA125-07	6E029
8 ¹ / ₂ "	6EA125-08	6E030
10 ⁵ / ₈ "	6EA125-09	6E042

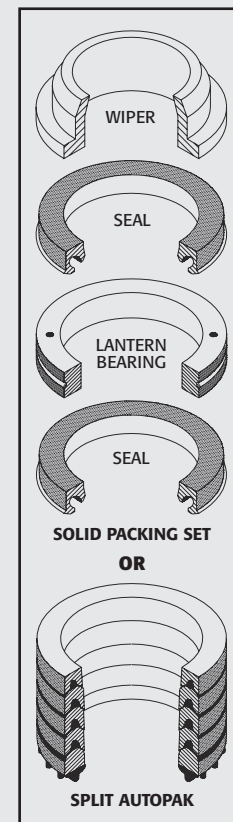
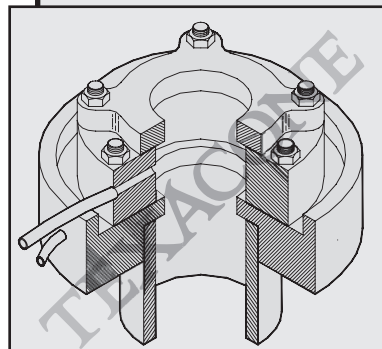
- Some units may require only one seal.
- Manufactured in the 1960s.
- May require gasket (not included) if completely disassembled.

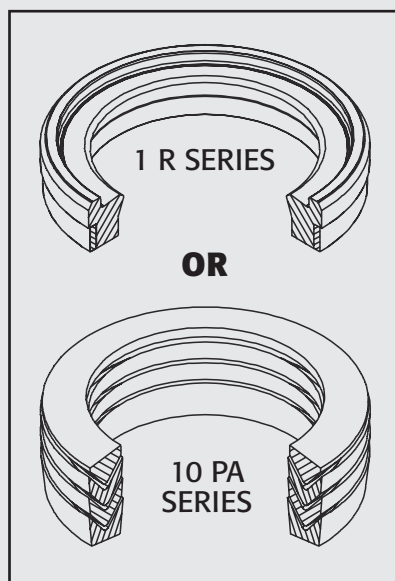


Winter & Bain

Plunger Size	Solid Packing Set Number	Seals Only Set Number (1 required)	Split Autopak Set Number*
2 ¹ / ₂ "	9EA068-01	9RF068-01	1AT083-01
3"	6EA068-22	8RF068-22	1AT083-22
3 ¹ / ₂ "	6EA068-02	8RF068-02	1AT083-02
3 ⁷ / ₈ "	6EA068-21	8RF068-21	1AT083-10
4"	6EA068-15	8RF068-15	1AT083-15
4 ³ / ₈ "	6EA068-03	8RF068-03	1AT083-03
4 ¹ / ₂ "	6EA068-20	8RF068-20	1AT083-21
5"	6EA068-04	8RF068-04	1AT083-04
5 ⁷ / ₁₆ "	6EA068-05	8RF068-05	1AT083-05
5 ¹ / ₂ "	6EA068-06	8RF068-06	1AT083-06
6"	6EA068-14	8RF068-14	1AT083-14
6 ¹ / ₂ "	6EA068-07	8RF068-07	1AT083-07
6 ⁹ / ₁₆ "	6EA068-08	8RF068-08	1AT083-08
7"	6EA068-09	8RF068-09	1AT083-09
7 ¹ / ₂ "	6EA068-10	8RF068-10	1AT083-10
8"	6EA068-17	8RF068-17	1AT083-16
8 ¹ / ₂ "	6EA068-11	8RF068-11	1AT083-11
9"	9EA068-16	9RF068-16	1AT083-17
9 ¹ / ₂ "	6EA068-12	8RF068-12	1AT083-12
10"	6EA068-18	8RF068-18	1AT083-18
10 ¹ / ₂ "	6EA068-19	8RF068-19	1AT083-22
10 ⁵ / ₈ "	6EA068-13	8RF068-13	1AT083-13

- * Use the existing lantern bearing with Autopak set.
- May require gasket (not included) if completely disassembled.





Traction Machine Packings

Armor

Machine Number	Packing Dimensions	Texacone Part Number
#1	1.500" x 2.500" x .828"	10PA01-29*
#2	1.750" x 2.750" x .828"	10PA01-30 (1)*
#3 OLD	1.875" x 2.875" x 1.297"	10PA01-31*
#3 INT	1.938" x 3.063" x 1.359"	10PA01-32*
#3 FIN	1.938" x 2.875" x 1.266"	10PA01-33 (2)*
#4	2.000" x 3.000"	1R020
#5	2.750" x 3.750"	1R081

*Shims included with sets.

(1) Substitute Worm Gear seal part number 1R059

(2) Substitute Worm Gear seal part number 1R012

Dover

Machine Number	Packing Dimensions	Manufacturer Part Number	Texacone Part Number
GD1*	2.000" x 3.000" Worm	—	1R020
GD1*	2.000" x 3.250" Worm	—	1R021
GD2*	2.000" x 3.000" Worm	—	1R020
GD2*	2.000" x 3.250" Worm	—	1R021
GD45	3.125" x 4.250" Inner	9752146	1R103 CR
GD45	1.749" x 2.650" Worm	9752110	1R043
GD45	5.125" x 7.000" Spider	9767897	5E006
GD50	3.125" x 4.250" Inner	9752146	1R103 CR
GD50	1.749" x 2.650" Worm	9752110	1R043
GD75	3.125" x 4.250" Inner	9752146	1R103 CR
GD75	1.749" x 2.650" Worm	9752110	1R043
GD105	7.125" x 8.625" Spider	9825526	5E004
GD105	4.500" x 5.500" Inner	9727346	1R048 SOLID
GD105	2.345" x 83.220" Worm	9825514	1R002
GD200	2.815" x 3.825" Worm	9751122	1R113 JM
GD240	2.345" x 3.220" Worm	9825514	1R002
GD240	5.000" x 6.250" Inner	9824479	1R101 N
GD240	8.500" x 10.250" Spider	9808760	5E005
GD300	2.815" x 3.825" Worm	9751122	1R113 JM

* Requires both seals

• NOTE: CR, N, and G designate solid seals.

Fujitec

Machine Number	Packing Dimensions	Manufacturer Part Number	Texacone Part Number
—	50mm x 72mm	—	1R114

Questions? Answers at...

Traction Machine Packings

Haughton Machines

Machine Number	Packing Dimensions	Texacone Part Number
E	2.000" x 2.750" x 2.250"	10PA01-20
EK	2.750" x 3.750"	1R081
H	1.438" x 2.250" x 1.688"	10PA01-21
O	1.438" x 2.250" x 1.625"	10PA01-22
R	1.750" x 2.500" x 1.750"	10PA01-23
OH	2.500" x 3.500"	1R100 + 6 Shim
N	3.188" x 4.250" x 2.500"	10PA01-24
L	2.688" x 3.750" x 2.500"	10PA01-25
K	2.188" x 3.250" x 2.313"	10PA01-26
EKU	2.750" x 3.750"	1R081

Hollister & Whitney

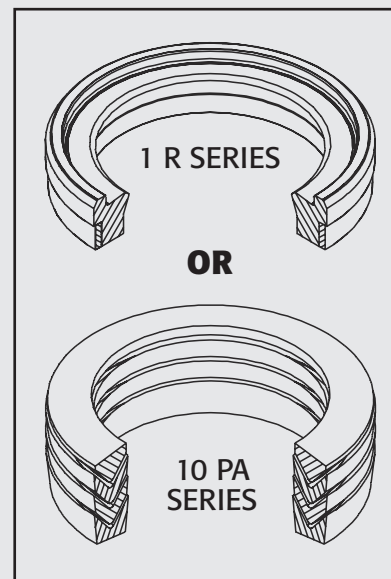
Machine Number	Packing Dimensions	Texacone Part Number
34	4 ⁷ / ₈ " x 6 ⁷ / ₈ " Sheave	1M253
43	5 ³ / ₈ " x 7 ³ / ₈ " Sheave	1M244
43	1.688" x 2.563" Worm	1R062
53	7" x 9" Sheave	1M252
53	1.938" x 2.875" Worm	1R079
63	8 ¹ / ₄ " x 11" Sheave	1M240
63	2.188" x 3.000" Worm	1R052
74	12" x 14" Sheave	1M251

Montgomery

Machine Number	Packing Dimensions	Manufacturer Part Number	Texacone Part Number
207E	1.938" x 3.194"	9096-017	1R086
207E	1.125" x 1.832"	9096-021	1R049N
207E	2.625" x 3.548"	9096-047	1R095N
208E	1.938" x 3.194"	9096-017	1R086
208E	1.125" x 1.832"	9096-021	1R049N
208E	4.000" x 5.004"	9096-024	1R031
210E	2.438" x 3.548"	9096-005	1R047
210E	4.500" x 5.756"	9096-046	1R094N
214E	2.438" x 3.548"	9096-005	1R047
214E	4.375" x 5.756"	9096-029	1R093N
215E	2.438" x 3.548"	9096-005	1R047
215E	2.938" x 4.003"	9096-008	1R039
215E	4.375" x 5.756"	9096-029	1R093N

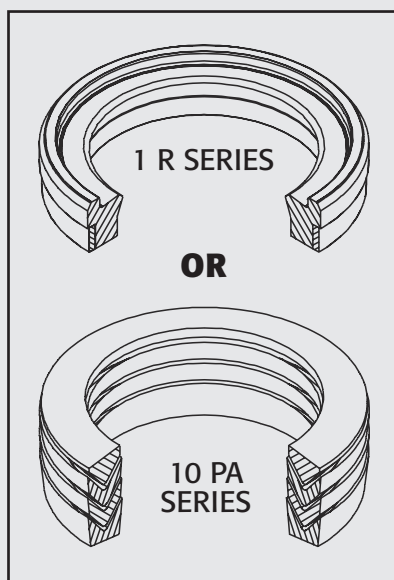
• Note: N designates solid seal, otherwise available as split or solid.

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Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Traction Machine Packings

Otis

Machine Number	Packing Dimensions	Manufacturer Part Number	Texacone Part Number
17	1.938" x 2.875"	33AA1	1R079
22	2.000" x 3.000"	33D29	1R020
22 OLD	2.000" x 3.250"	33P2	1R021
29	3.000" x 4.500"	33D26	1R019
	6.875" x 7.875"	33D31	1R077
	8.250" x 9.500"	33D27	1R096
	5.000" x 6.000"	33D5	1R091
	5.313" x 6.313"	33D23	1R084
	5.313" x 6.250"	33D20	1R105

Otis Worm Shaft Packing

Packing Dimensions	Manufacturer Part Number	Texacone Part Number
1.000" x 1.750" x 1.250"	182A1	10PA01-37
1.313" x 2.063" x 1.375"	182A2	10PA01-38
1.583" x 2.583" x 1.687"	182A3	10PA01-39
1.875" x 3.125" x 2.062"	182A4	10PA01-40
2.125" x 3.375" x 2.625"	182A5	10PA01-41
2.250" x 3.500" x 2.000"	182A6	10PA01-42
2.500" x 3.750" x 1.937"	182A7	10PA01-43
3.500" x 4.500" x 2.312"	182A8	10PA01-44
0.625" x 1.406" x .1.1258"	182A9	10PA01-45
1.188" x 1.688" x 1.625"	182A10	10PA01-46
1.313" x 1.875" x 1.062"	182A11	10PA01-47
2.000" x 3.000" x 1.312"	182A12	10PA01-48
1.813" x 2.813" x 1.500"	182A13	10PA01-49
1.438" x 2.438" x 1.000"	182A14	10PA01-50
1.563" x 2.563" x 1.375"	182A15	10PA01-51
3.625" x 5.125" x 2.312"	182A16	10PA01-52
1.875" x 3.125" x 1.687"	182A17	10PA01-53
1.875" x 3.000" x 2.625"	182A18	10PA01-54
2.500" x 3.750" x 1.625"	182A19	10PA01-55

Park Manufacturing

Packing Dimensions	Texacone Part Number
1.938" x 3.188"	1R017
2.188" x 3.188"	1R018

F.S. Payne

Machine Number	Packing Dimensions	Texacone Part Number
400	2.500" x 3.500"	1R100
B	1.373" x 2.373"	1R061
300	1.875" x 2.875"	1R013

Questions? Answers at...

Traction Machine Packings

U.S. Elevator

Packing Dimensions	Texacone Part Number
2.125" x 3.188"	1R027

Watson

Packing Dimensions	Texacone Part Number
1.688" x 2.563"	1R062
2.188" x 3.188"	1R063

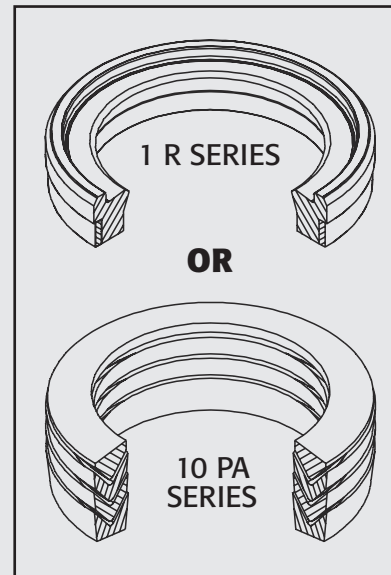
Westbrook/Southeastern

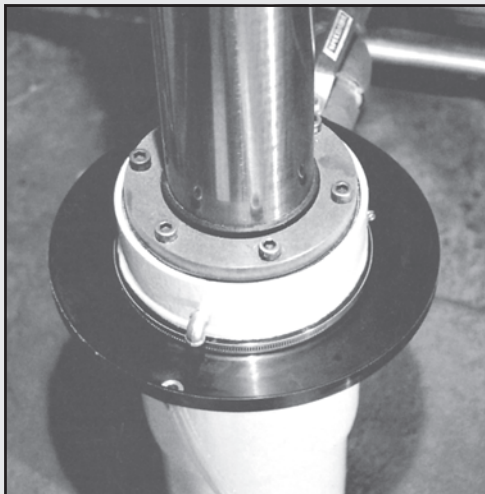
Machine Number	Packing Dimensions	Texacone Part Number
7	1.625" x 2.438" x 2.000"	10PA01-34
22, 26	2.000" x 2.813" x 3.000"	10PA01-35
31	2.438" x 3.250" x 4.000"	10PA01-36

Westinghouse

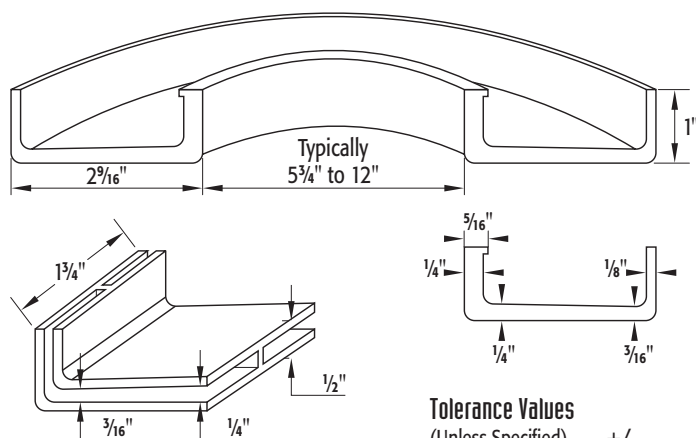
Machine Number	Packing Dimensions	Manufacturer Part Number	Texacone Part Number
18	1.750" x 3.188" Worm	X30ES1H13	1R007
18*	2.563" x 3.750" Geared	X30ES1H12	1R050
18	6.855" x 8.500" Sheave	6918C45H01	1M139
27	2.125" x 3.140" Worm	R7311H23	1R115
27*	2.750" x 3.750" Geared	X30AS1H11	1R081
27*	2.75" x 3.50"(0-2-1) Geared	M32427H06	10PA01-56
28	2.500" x 3.500" Worm	X30ES1H19	1R100
28*	3.688" x 4.750" Geared	X30ES1H15	1R022
28	8.125" x 9.250" Sheave	6917C89H01	1M130
31	2.125" x 3.140" Worm	R7311H23	1R115
37	2.438" x 3.438" Worm	R7311H17	1R006
37*	3.25" x 4.25"(0-2-1) Geared	M3427H01	10PA01-57
38	3.125" x 4.250" Worm	X30ES1H20	1R004
38*	4.500" x 5.500" Geared	X30ES1H18	1R048
38	4.000" x 5.000" Worm	R7311H25	1R031
38	9.750" x 11.30" Sheave	2890C79H01	1M057
57	3.240" x 4.250" Worm	X30ES1H09	1R005
57*	4.00" x 5.00"(0-2-1) Geared	M3427H02	10PA01-58
58 NEW	3.250" x 4.500" Worm	X30ES1H14	1R028
58 OLD	3.240" x 4.250" Worm	X30ES1H09	1R005
61	3.240" x 4.250" Worm	X30ES1H09	1R005
81	4.000" x 5.000" Worm	R7311H25	1R031
18	Machine Kit	6918C44G02	1K006
28	Machine Kit	6917C91G02	1K005
38	Machine Kit	2900C27G02	1K004

* Geared Center - also called Pedestal, A-Frame





DRIP RING INSTALLED ON A TYPICAL CYLINDER
 (Shows top and inside of the Drip Ring pan, clamp, fitting and drain Hose.)



Tolerance Values

(Unless Specified)

Decimal	+/- .030
Fractions	1/32
Angles	2
Perpendicular	1/32
Parallel	1/32

Part Number	Cylinder Diameter	Cylinder Circumference
DR-1	5 3/4" to 7"	18" to 22"
DR-2	7" to 8 1/2"	22" to 26"
DR-3	8 1/2" to 10"	26" to 31"
DR-4	10" to 12"	31" to 37 1/2"

Drip Rings [Hydraulic Fluid Containment]

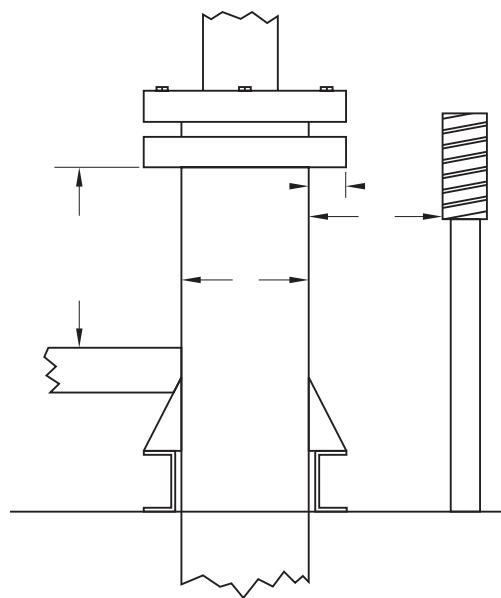
Contain leaking fluid with Drip Rings for Hydraulic Elevators

Drip Ring Features:

- Installation can be accomplished by one mechanic in approximately 15 minutes.
- The only tools needed: utility knife, marker, straight edge and screwdriver.
- Manufactured and molded from high quality, durable, oil-resistant materials.
- Oversized drain to resist clogging
- Fits cylinders from 5.75" through 12" in diameter (smaller sizes by special order).

Package Features:

- Drip Ring packages come with a complete installation kit containing detailed instructions, fittings, drain tubing, clamp, and sealant, all of the materials necessary for a quick, simple leak-free installation.



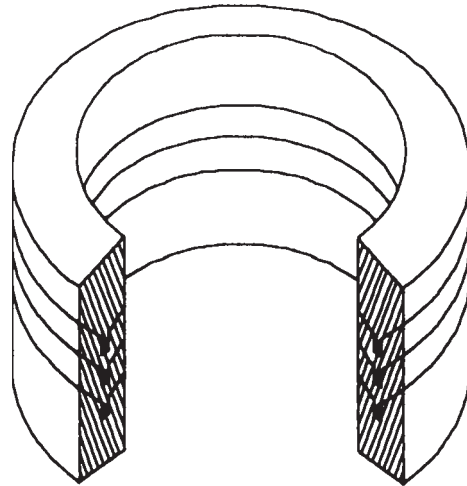
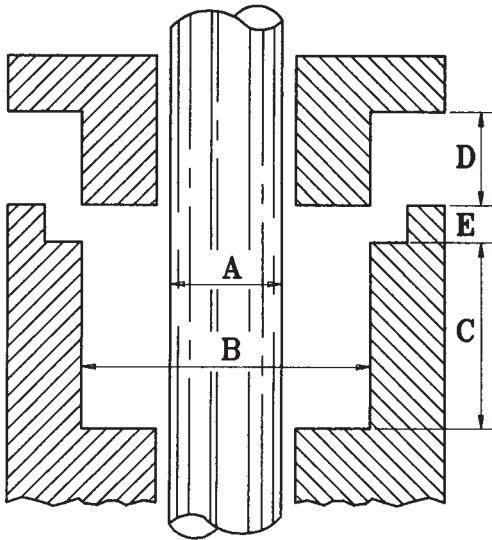
One Easy Measurement for the Drip Ring:

- A = Circumference or diameter in inches of the cylinder where the ring will be installed
- B = Maximum overhang of the packing head from the cylinder (3 3/4")
- C = Minimum side clearance (4")

Questions? Answers at...

Packing Box Worksheet

Information Needed:



☐ Standard Elevator Packing Box

☐ Elevator Packing Box with Oil Groove

Jack Identification (Mfgr's): _____

Manufacturer of Jack: _____

(A) Plunger Diameter

(A) Plunger Diameter

(B) Box Bore

(B) Box Bore

(C) Depth of Box:

(C) Depth of Box:

(D) Length of Gland Neck

(D) Length of Gland Neck (when in box)

Notes: _____

Company: _____

Phone # _____

By: _____

Date: _____

Master copy – Please make a photocopy



Accessories

Complete Packing Replacement Kit

The Kit contains:

- Two flexible T-style pullers with unique, sharp edged screw tips for quick removal of hydraulic packings.
- Two flexible T-style pullers for worm shaft packing removal
- Two sizes of hardwood dowels for packing installation
- One diameter-reading tape for accurately measuring plungers or shafts
- Vernier calipers for measuring machine shafts
- Fraction/decimal conversion chart

Part Number	Description
1RA018	Packing Replacement Kit
DT	Diameter Tape Only

Jack's Green Slime

A 1/4-ounce tube of Jack's Green Slime comes with every packing kit. Also available in 5oz. jars with brush top, and 1lb. grease cartridge size.

Part Number	Description
JGS-5OZ	Green Slime 5oz. jar
JGS-CASE	Green Slime Case, 12-5oz. jars
JGS-1LB	Green Slime 1lb. Grease Cartridge

Sanding Sleeve

Plungers used in the elevator industry are typically mild steel tubing that can be scratched and easily worn over time. Scratches, burrs and formations of rust shorten seal life and cause significant leakage. Pistons that have been worn smooth will not allow an oil film to aid in the lubrication of the seal, resulting in poor ride performance. The Texacone Sanding Sleeve was specifically developed to refinish plungers and return them to a factory-like finish. The Sanding Sleeve simply bolts to existing cylinder head hardware and is clamped around the plungers. It is reusable, only needing to be relined with abrasive paper to be put back in action.

The Sanding Sleeve paper kit is recommended and comes with assorted abrasive paper grits, cleaning solvent, contact cement and instructions on how to reline the Sanding Sleeve for continued use.

For deeper scratches and misaligned joints, use the Texacone Sure-fill Repair Kit (opposite page). Remember to add new packing after every use of the Sanding Sleeve to ensure trouble-free performance.

- Please call with plunger size for part number and availability.

Questions? Answers at...

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 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Accessories

Sure-Fill Repair Kit

The sure way to fill scores and bad joints

Permanently repair piston damage at a fraction of the cost of replacement. Everything you need to do the job right comes in a convenient carrying case, so you never have to worry about lost parts, and refills are available.

- Excellent adhesion because our unique flux enables the solder filler to bond permanently to the repair area, and is impervious to oil, pressure and vibration.
- Solder filler has heat conduction properties similar to steel plungers so the repair will not crack or peel off like plastic fillers.
- The final repair will be undetectable with a smooth surface for better sealing and lower friction.

Part Number	Description
1RA020	Sure-Fill Repair Kit

Aligning System

Quick, accurate and easy cylinder alignment in minutes instead of hours. Eliminates the problems caused by out-of-plumb jacks and casing doglegs.

- Mechanically centered vapor proof light creates a highly visible halo of light to indicate when perfect alignment is achieved.
- Compact carrying case is self-contained and allows for portability and quick assembly.
- Works on 110V AC and on casings up to 12" in diameter. Extensions available for diameters over 12"
- Rails are not required to be installed, allowing the cylinder to be aligned before the structure is put up, saving time and expense.

Part Number	Description
1PV001	Cylinder Aligning System

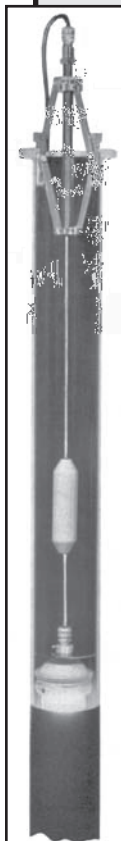
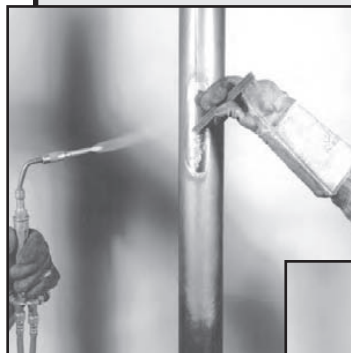
O Ring Splicing Kit

Create custom O Rings in the field without waiting on replacement parts, and achieve a factory fit in minutes. (For use only with O Rings in static applications.)

The Kit contains:

- Five sizes of O Ring cord stock ($\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$) in lengths of seven feet.
- Splicing jig that makes cutting and joining O Ring cord a snap.
- Rapid set adhesive for permanent bonds.
- Cutting blade.
- Handy carrying case.

Part Number	Description
1RA027	O Ring Splicing Kit



Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Accessories

Cylinder Head Identification Handbook

Detailed CAD drawings faithfully duplicate features of each manufacturer's head for easy identification. Includes hard-to-identify cylinder heads that haven't been produced for years.

Printed on durable pages that resist fading and stand up to grease, oils and years of use.

Part Number **HB**

Questions? Answers at...

24.44 Western US: **866 CED-ELEV** Eastern US: **866-253-2915**
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

PEELLE PARTS GUIDE



Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedlevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

25

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25.1

Covers for Elevator Hoistway Junction Boxes

Part Number	Description	Size
031651	Cover for 031621	8 ³ / ₄ " x 10 ⁵ / ₈ " (222 x 270mm)
031652	Cover for 031622	6" x 7 ¹ / ₈ " (152 x 181mm)
031642	Cover for 03163 & 03164 & 031641	15" x 15" (381 x 381mm)
075149	Cover for 075148	12" x 12" (305 x 305mm)

Covers for Door Interlocks & Limits

Part Number	Description	Size
03598	Top cover for 2356-59 Interlock (0359)	3 ¹ / ₂ " x 5 ¹ / ₂ " (89 x 140mm)
03678	Top cover for 2356-67 Interlock (0367)	3 ¹ / ₂ " x 16" (89 x 406mm)
035568	Bottom cover for (Sub 035512) most interlocks	5" (127mm) long, bent 90°
0947555	Big cover for door limit	8" x 14 ¹ / ₂ " (203 x 368mm)
094753L/R	Small cover for 0947 door limit-reg	8" x 2 ¹ / ₂ " (203 x 64mm)
094754L/R	Small cover for 0947P door limit-pass	8" x 2 ¹ / ₂ " (203 x 64mm)
09347	Chain guard for door limit	6 ¹ / ₄ " x 6 ⁵ / ₈ " (159 x 168mm)

Covers for Gate Limits

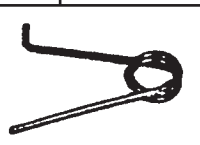
Part Number	Description	Size
09352	Cover for 0935A Limit	11 ³ / ₁₆ " x 12 ¹ / ₈ " (284 x 308mm)

Compression Springs

Part Number	Description	Active Coils
033171	1 ¹ / ₂ " O.D. x 5 ⁷ / ₈ " long (13 x 16mm) Used on Contact Bars	4
035510S	3 ⁷ / ₈ " O.D. x 1 ¹ / ₂ " long (10 x 38mm) Used on Interlock Ratchet Arm-Sub 235510	12
035516	3 ³ / ₄ " O.D. x 1 ¹ / ₂ " long (19 x 36mm) Used on Interlock Contact Arm	7
235510	3 ⁷ / ₈ " O.D. x 1 ³ / ₄ " long (10 x 44mm) Used on Interlock Ratchet Arm	12

Springs, Miscellaneous

Part Number	Wire Diameter	Used On
03457	0.125" (3mm)	Peelle Center Latch



Parts by Category

Operators/Motors

Operator	Motor	Gear/Sheave
		Bearing Assembly
Door 0569	056910	05839
Door 0569M	056910M	05839
Door 0587	058720 058730	05839
Door 0594 E.R.	059421	05839
Door 0595 E.R.	059521	05839
Door, Manual	—	2593
Gate 2518	25182	25181
Gate 2517	25175	25181
Gate, Manual	—	2570 2571

Motor Pinions

Part Number	Description
05288	Door Motors – 4 Tooth
250723	Gate Motors – 8 Tooth

Bearings

Part Number	Description
05468	For motors and limits
05833	For operator gear/sheave assemblies

Rubber Bumpers

Part Number	Description
06113	Round, for gates
0611	Bumper Assembly for double section gates

Questions? Answers at...

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Parts by Year: Landing Doors

Manual Landing Doors

	1950s	1960s	1970s	1980s	1990s	2000s
Guide Shoes	0238 (Reg) 0239 (Pass) (reversed after 1955)	0239 (Reg) 0238 (Pass)	0239 (Reg) 0238 (Pass)	0239 (Reg) 0238 (Pass)	0239 (Reg) 0238 (Pass)	0259 (Reg) 0258 (Pass)
Door Interlock Manual Door	0355-59 (sub 2356-59)	2356-59	2356-59	2356-59	2356-59	2356-59
Plugging Device	03561 (sub 23561)	23561	23561	23561	23561	23561
Side Tension	none (sub 06696)	0659 (sub 06696) 0660 (sub 06696) 06693 (sub 06696)	06696	06696	06696	06696
Door Astragal Flap	06585 (sub 06696, etc.)	06585	06585	06585	066053 Since 1995	066053
Manual Sheave	0527 (sub 2593)	0593 (sub 2593)	2593	2593	2593	2593
Door Chain	0166 (sub 01807)	0166 (sub 01807)	01807	01807	01807	01807
Door Chain Rods	0122 (sub 0121 with 01807, etc.)	0122 (sub 0121 with 01807, etc.)	0121	0121	0121	0121
Door Chain Rod Clips	0123	0123	0123	0123	0123	0123
Door Stops	0420	0420	0420	0420	0420	0420
Manual Door Unlocking Device	0393 (sub 2393 or 2398)	0393 (sub 2393 or 2398)	2393	2393	2393	2393/2378
Retiring Cam	0330 (sub 2330)	0330 (sub 2330)	2330	2330	2330	2330

Power Landing Doors

	1950s	1960s	1970s	1980s	1990s	2000s
Door Interlock Power Door	0355-67/0356-67 (sub 2356-67)	2356-67	2356-67	2356-67	2356-67	2356-67
Door Operator	0569	0569	0569	0569	0569	0569
Door Limit	0934 (sub 0947)	0934 (sub 0947)	0947	0947	0947	09682
Power Door Unlocking Device	0393 (sub 2395)	2395	2395	2395	2395	2395/2378N1

Questions? Answers at...

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Parts by Year: Car Gates & Controls

Manual Car Gates

	1950s	1960s	1970s	1980s	1990s	2000s
Guide Shoes, Gate Panel	0233/0235 (sub 0255)	0239 (since 1958)	0239	0239	0239	0239
Guide Shoes, Counterweight	0232	0232	0232	0232	0232	0232
Gate Contact	2342	2343 (sub 2342)	2343 (sub 2342)	2343 (sub 2342)	2341 (sub 2342)	2342
Gate Astragal Flap	05207 (sub 2574)	05207 (sub 2570)	05207 (sub 2570)	2570	2570	2574
Gate Sheave Single	05207 (sub 2574 with 0179, etc.)	05207 (sub 2570 with 0179, etc.)	05207 (sub 2570) 2570	2570	2570	2574
Gate Sheave Double	2511 (sub 2571 with 0179, etc.)	2511 (sub 2571 with 0179, etc.)	2511 (sub 2570)	2571	2571	2571
Gate Chain	0166 (sub 0179, etc.)	0166 (sub 0179, etc.)	0179	0179	0179	0179
Two-Section Panel Sheave	0503 (sub 2582)	0503 (sub 2582)	0503 (sub 2582)	0503 (sub 2582)	2582	2582

Power Car Gates

	1950s	1960s	1970s	1980s	1990s	2000s
Gate Operator	two-speed 0549/0599/0573/0574/2517	0549/0599 or 2517	0599/2508/2507 or 2517	2517	2517	2517
Gate Limit	0935	0935	0935	0935	0935	09682
Reopening Device	0652 (sub new gate or 068412)	068412 (sub 46889)	068412 (sub 46889)	46899 Sensor Beam	4696 Light Curtain	46899 Sensor Beam 46969 Light Curtain

Controls

	1950s	1960s	1970s	1980s	1990s	2000s
Controllers	0751/075132 (sub 274200R)	075132 274200R	0765/2765 274200R	2767/2776 274200R	2776 274200R	2742
OT/CT 30-second timer	240V. 075117 (sub new 2776 controller)	240V. 075117 (sub new 2776 controller)	120V. 075138 (sub 274172 with 274175)	120V. 276708 (sub 274172 with 274175)	120V. 2767 (sub 274172 with 274175)	24VDC, 274251 CPU
TP 3-minute timer	240V. 0750 (sub 274200R controller)	240V. 0750/2760 (sub 274200R controller)	120V. 076223 (sub 274173 with 274175)	120V. 079066 (sub 274173 with 274175)	120V. 079066 (sub 274173 with 274175)	24VDC, 274251 CPU

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Landing Door Guide Shoes

Guide Shoes

Door Type	1920s	1930s	1940s	1950-1955	1955-2000	2000-Present
Regular Door	0238	0238	0238	0238	0239	0258
Pass						
Upper Panel	0238	0238	0238	0238	0238	0258
Pass						
Lower Panel	029	029	029	0239	0239	0258
Large Doors Since 1993					0258	0258

Part Number	Dimensions "A"	Bottom of base to guide
0239	1.312" (33mm)	1" (25mm)
	Regular Door (8 Shoes) 1955-Present Pass lower Panel (4 Shoes) 1950-Present.	
0238B	0.937" (24mm)	0.62" (16mm)
	Pass Upper Panel (4 Shoes) 1924-Present Regular Door (8 Shoes) 1924-1955.	
029	1.187" (30mm)	0.87" (22mm)
	Pass Lower Panel (4 Shoes) 1924-1949 0.87" (22mm) from bottom of base to guide.	

Guide Shoe with Insert

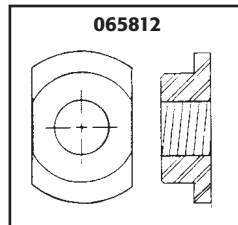
0258	1.437" (37mm)	0.62" (16mm)
	Large Doors (8 Shoes) 1993-Present.	

Guide Shoe Substitutions

Part Number	Description
025	Guide Shoe-Sub 0238B
026	Guide Shoe-Sub 029
027	Guide Shoe-Sub 0238B
028	Guide Shoe-Sub 0238B

Guide Shoe Grommet Nut

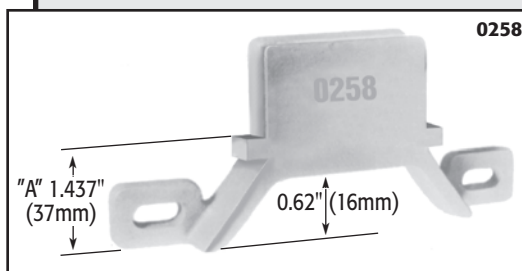
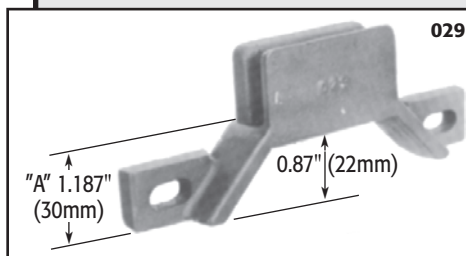
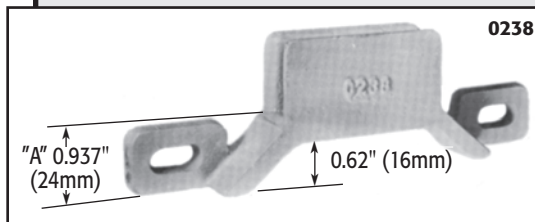
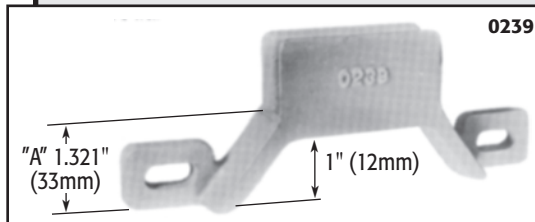
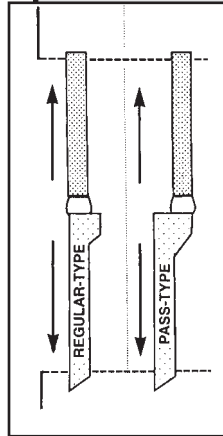
To Attach Guide Shoes: Use 5/16" x 5/8" Hex Head Cap Bolts with Flat Washer & Lockwasher. 065812 Shoe Grommet Nut (shown) must be used for the Shoe Bar Angle.



To Protect Shoes

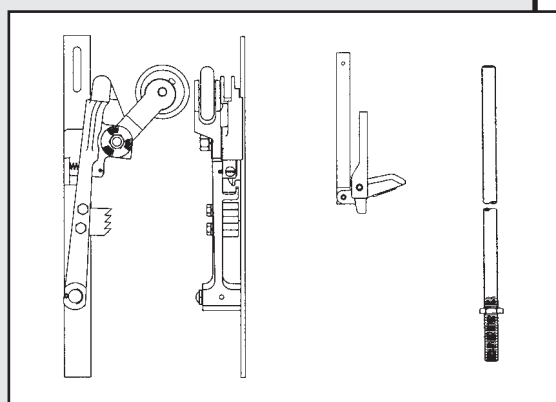
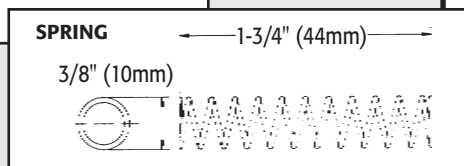
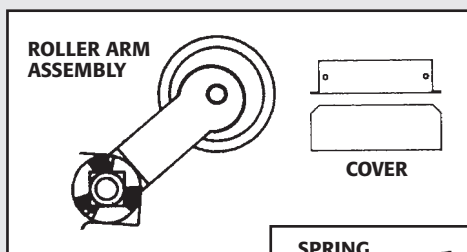
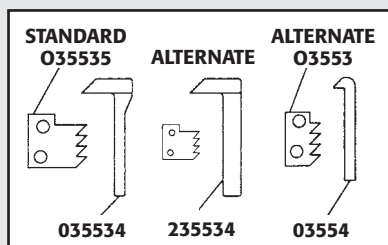
Door Hold-Open Mechanical Device, Manual Doors

Door hold-open mechanical devices used to eliminate lower panel trucking sill rebound are optional retrofit upgrades for manual bi-parting freight doors on elevators carrying automobiles and trucks. Note: Power operated doors since 1950 are equipped with an electrical version of a hold-open device known as the automatic-stay-open feature.



Questions? Answers at...

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Landing Door Interlocks

Interlocks, Retiring Cam Required, 1930-Present

Power Door Manual Door

2356-67	2356-59	L/R Interlock NEMA 1/IP10
2332-29	2332-32	L/R Interlock NEMA 4/12/IP54/56
2344-29	2344-32	L/R Interlock NEMA 4X/IP56
23526	2352-53	L/R Interlock NEMA 7/9

Power Doors: 2 Contacts plus Zone Switch Assembly.
Manual Doors: 2 Contacts. Specify left or right hand.

Interlock Components

Part Number Description

235510	Spring
035512	Cover
035562	Roller Arm Assembly

Extension roller arm assemblies available.

Interlock-Related

Part Number Description

23651	Contact Plugging Device
235615	Plug Rod 4'6" (1370mm) standard length and cut to suit in field, unless dimension is given

Note: Interlock plugging prevents door-closed contact from being made when door is open. Retrofit work is required to add plugging device onto landing doors prior to 1955.

0354	L/R Side-Opposite-Lock (No Contact)
Retiring or fixed cam required. On doors over 10ft. (3000mm) wide. Available in narrow version 2354. Specify left or right hand.	
2354	L/R Side-Opposite-Lock (No Contact)
Narrow Version of 0354	
Retiring or fixed cam required. On doors over 10ft. (3000mm) wide. Specify left or right hand.	

Unlocking Devices & Components

Part Number	Description	Key
2380	Manual Doors	03932 (AUES)
2380N1	Motorized Doors	03932 (AUES)
2380N4	Nema 4 Motorized Doors	03932 (AUES)

Unlocking Device-Related

Part Number	Description
2392	Key Holder, Surface Box

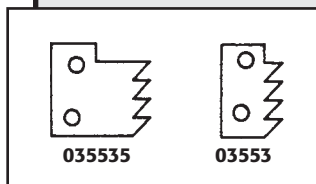
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Interlock Keepers

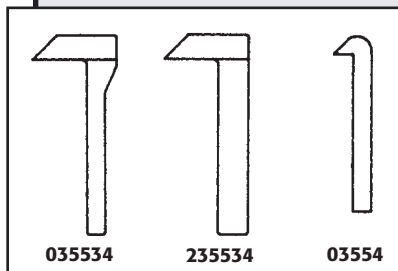
Ratchets

Part Number	Description
035535	
03553	Tight Space



Lower Panel Keeper Hooks

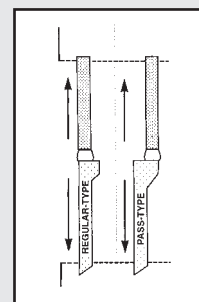
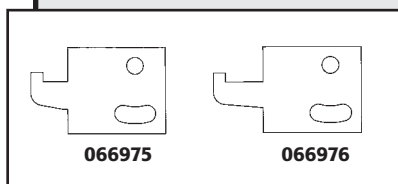
Part Number	Description
035534	
235534	Large Doors
03554	Tight Space



Upper Panel Keepers

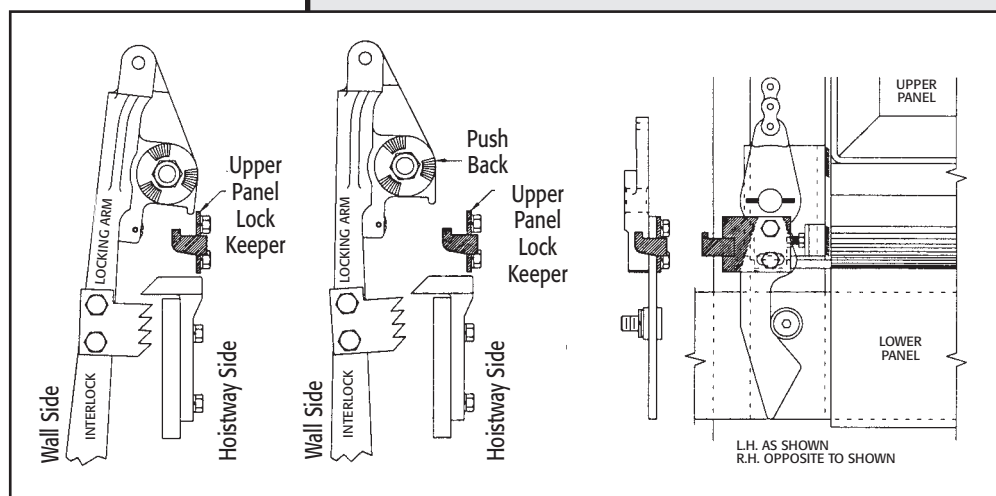
Part Number	Description
066975	Regular-Type Door
066976	Pass-Type Door

Specify left or right hand. Left hand as shown.
Right hand opposite to shown.



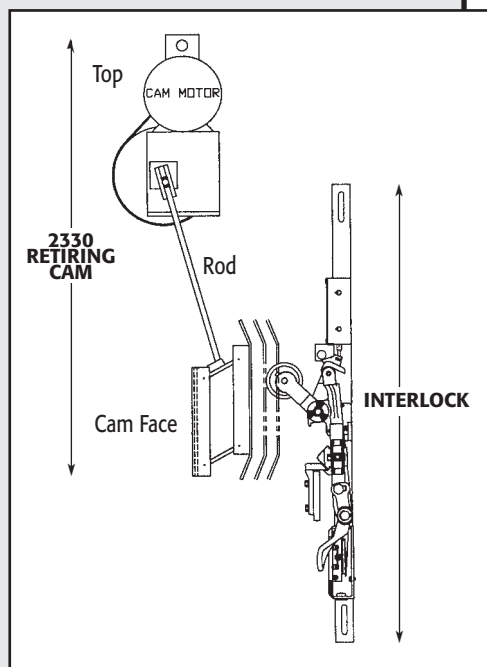
Note:

Upper Panel Locks need to be added for interlocks/doors manufactured prior to 1977. New interlock required. Refer to *Peelle Modernization Manual 205*, Illustrations 23 and 24. New guide shoes are recommended at the same time.

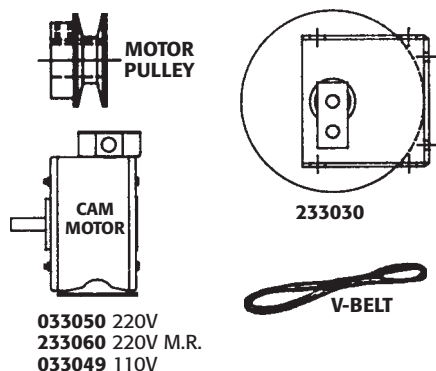


Questions? Answers at...

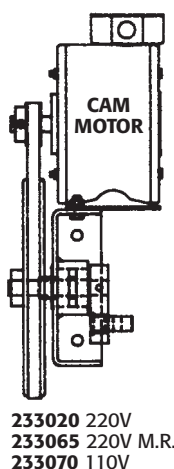
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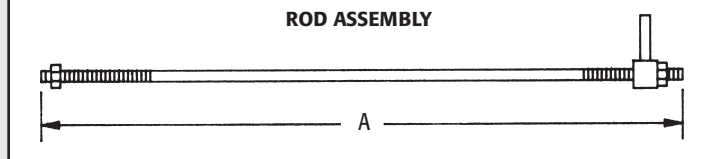
COMPONENTS OF TOP ASSEMBLY



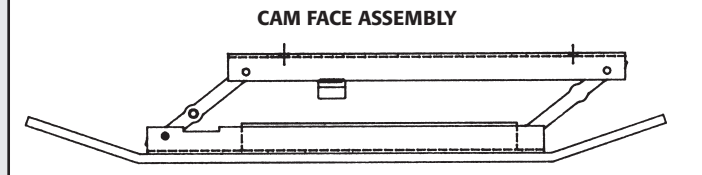
TOP ASSEMBLY



ROD ASSEMBLY



CAM FACE ASSEMBLY



Landing Door Retiring Cams

Retiring Cams

Part Number	Description
2330	1975–Present Retiring Cam
0330	1950–1975 Retiring Cam–Sub #2330
0377	1935–1950 Retiring Cam–Sub #2330

- Used to operate landing door interlocks.
- Mounted on car gate/car door.
- Used with (1) 033064 and (1) 033065 bracket for power car gates, or a mounting angle for manual car gates.
- Made up of three assemblies (top, rod, and cam face) (see illustration).
- Hand is determined standing on car facing door.

Top Assembly & Components

Part No.	Description
233020	Top Assembly NEMA 1/IP 10, 220V
233065	Top Assembly NEMA 4/IP54, 220V
233070	Top Assembly NEMA 1/IP10, 110V
033021	V-Belt
033027	Motor Pulley
033050	Cam Motor NEMA 1/IP10, 220V
233060	Cam Motor NEMA 4/IP54, 220V
033049	Cam Motor NEMA 1/IP10, 110V
233030	Reduction Unit NEMA 1/IP10
233025	Reduction Unit NEMA 4/IP54

Top assembly parts are universal in hand. Hand is determined when assembled. Top assembly is 15.5" high, 9.5" deep, 7" wide (390mm high, 240mm deep, 180mm wide).

Rod Assembly

Part No.	Description
97179	Connection Rod, "A" Length

Offered in different lengths to suit different door heights. Give Peelle job number or "A" length.

Cam Face Assembly

Part No.	Description
233010	Cam Face Assembly

Cam face is 36" high, 4.75" deep, 2" wide (910mm high, 120mm deep, 50mm wide)

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Landing Door Chains & Panel Parts

Door Chains

1968-Present

Part No.	Description
01807	Door Chain (need length)
01801	Connecting Link (order separately)

1936-1968

Part No.	Description
0166	Door Chain-Sub #01807

Note: Peelle #01807SS Stainless Steel Chain is available.
Peelle #01806 Chain Assembly is 01807 chain and (2) 01801 Connecting Links.

Chain Rod

1968-Present

Part No.	Description
0121	Chain Rod, 0.5" (13mm) Square, 42" (1070mm) long, 4" (100mm) thread length

Rod Clip

1936-Present

Part No.	Description
0123	Rod Clip, lower panel, for 0.5" (13mm) square rod

Tension Latch & Components

1968-Present

Part No.	Description
06696	L/R Tension Latch Assembly
06592	Roller Keeper

Parts are universal in hand. Hand is determined when assembled. R.H. as shown. L.H. opposite to shown.

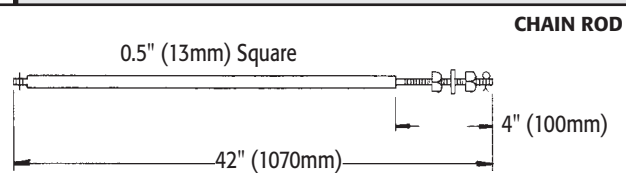
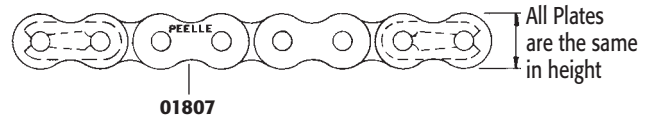
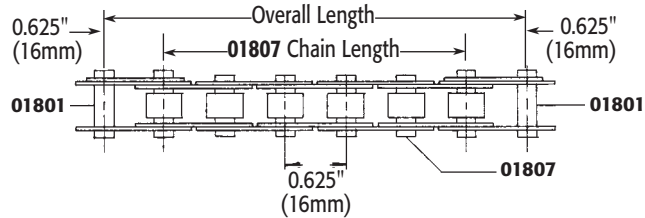
Sill Stop Assembly & Components

1950-Present

Part No.	Description
0420	Sill Stop Assembly
04202	Adjustable Stop Piece
04203	Adjustable Stop Angle
04204	Sill Stop Assembly

See Peelle Modernization Guide 312 for the following replacements:

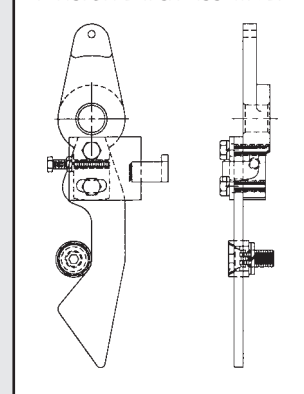
Door Panels – Section 2
Door Rails – Section 3
Door Astragals – Section 4



ROD CLIP

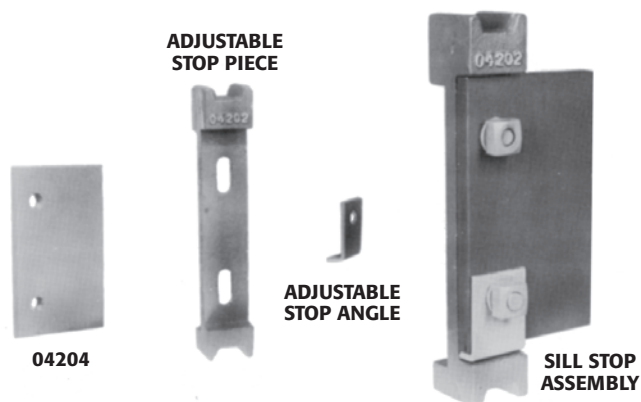


TENSION LATCH ASSEMBLY



SILL STOP ASSEMBLY & COMPONENTS

ADJUSTABLE STOP PIECE



Questions? Answers at...

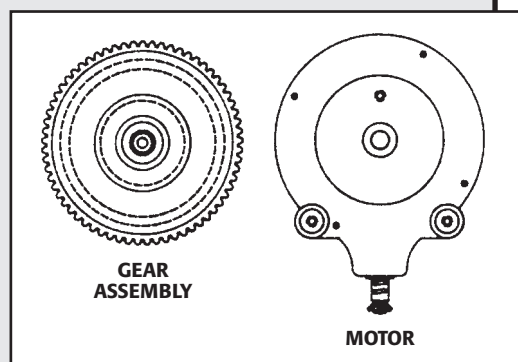
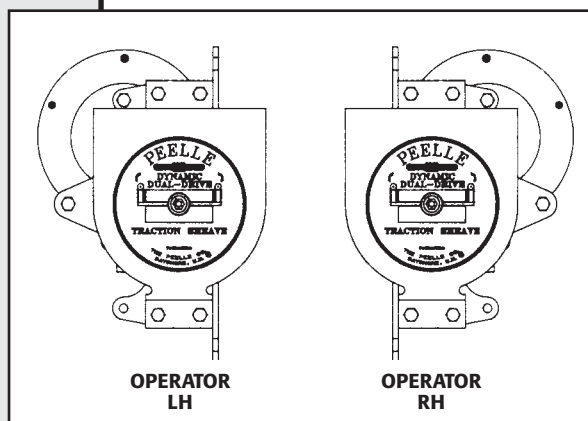
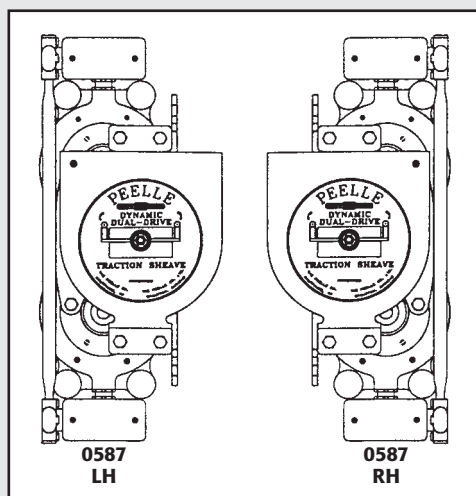
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Landing Door Operators & Components

Power Door Operators 1950–Present

Operator Number	Motor Number	Description	Door Width
0560 L/R	056921	Standard Torque NEMA 1/IP10	Less than 10' x 10' (3000 x 3000mm)
0569 L/R	056910	High Torque NEMA 1/IP10	10' x 10' (3000 x 3000mm) and larger
0560M L/R	056921M	Standard Torque NEMA 4X/IP56	Less than 10' x 10' (3000 x 3000mm)
0569M L/R	056910M	High Torque NEMA 4X/IP56	10' x 10' (3000 x 3000mm) and larger
0595 L/R	059521	High Torque NEMA 7/9	10' x 10' (3000 x 3000mm) and larger
2569 L/R	256910	Extra High Torque	15' x 15' (4500 x 4500mm) and larger
0587 L/R	058720	High Speed Motor	Narrow width operator
	058730	Slow Speed Motor	Narrow width operator

Note: Motors are 220V, 3 Phase, 50/60 Hertz, Two-Speed. Parts are universal in hand. Hand is determined when assembled.



Operator Components

Part Number	Description
05839	Gear/Sheave/Bearing Assembly
05696	Bearing Shaft Bolt with Grease Fitting
05288	4 Tooth Spiral Pinion (included with motor)

To power operate or re-motorize existing freight elevator doors manufactured by Peelle or other, see *Peelle Modernization Guide 312*, Section 1. Peelle power doors manufactured prior to 1950 should be upgraded with Peelle power conversion package.

Questions? Answers at...

Landing Door Sheaves & Limits

Manual Door Sheave 1950–Present

Part Number	Description
2593	Manual Door Sheave Assembly

Door Limits 1950–Present

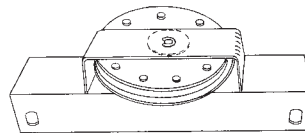
Part Number	Description
0947L	Door Limit Assembly, LH, opposite as shown, Regular Door
0947R	Door Limit Assembly, RH, shown, Regular Door
0947L PASS	Door Limit Assembly, LH, for Pass-type Door
0947R PASS	Door Limit Assembly, RH, for Pass-type Door
0955 L/R	Door Limit Assembly, NEMA 4/12/IP54/56
0956 L/R	Door Limit Assembly, NEMA 4X/IP56
094931	Door Limit Switch, NEMA 7/9

Hand determined standing on car facing door.

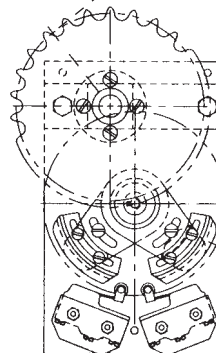
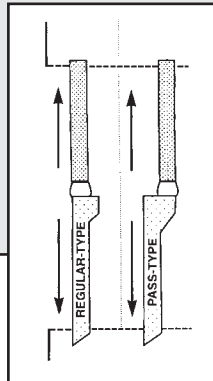
Note: 1950–1968 Limits require change to Peelle #01807 roller chain when changing complete limit assembly.

Limit Components

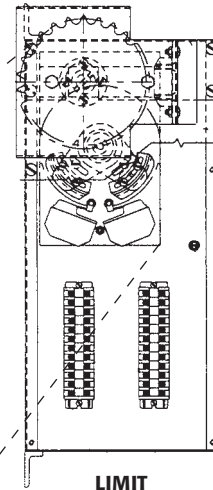
Part Number	Description
093415	Cam Carrier and Switches Assembly–Regular Door
09478	Cam Carrier and Switches Assembly–Pass Door
093451	Sprocket
093444	Micro-Switch, Typical Marking BZ–2RW822T
093445	Micro-Switch, Typical Marking BZ–3YWT822



MANUAL DOOR SHEAVE



CAM CARRIER ASSEMBLY

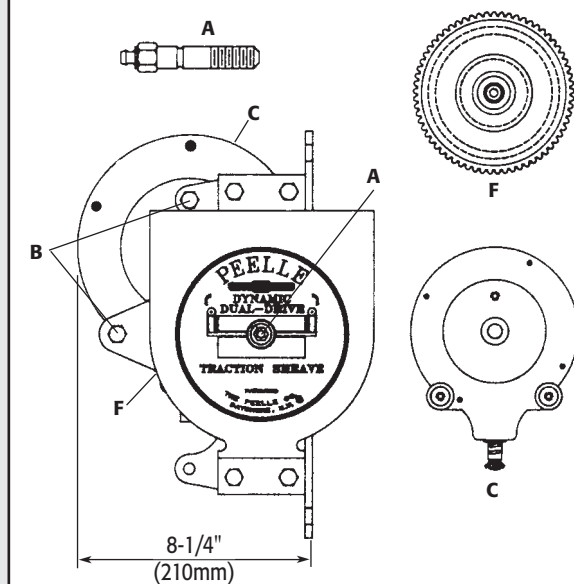


LIMIT

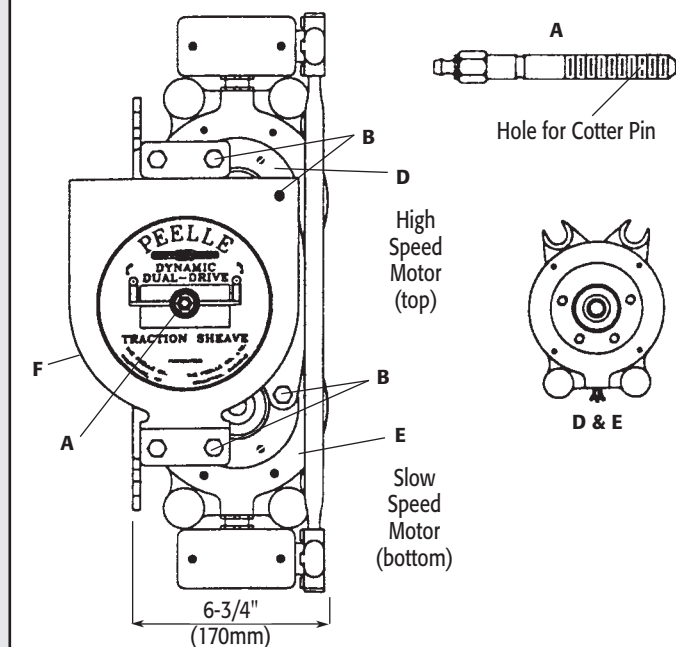
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0560 & 0569 DOOR OPERATORS



0587 DOOR OPERATOR



Landing Door Operator Motor Replacement

Each door employs (2) two dual-speed power door operators. 0560 and 0569 uses one motor with a 2-speed winding (high and slow speed); 0587 uses two individual motors, one high, one slow speed.

- A. Door operator bearing bolt
- B. Motor mounting bolts
- C. Door motor for 0560 and 0569 standard operators
- D. 900 rpm door motor for 0587 narrow return operators
- E. 450 rpm door motor for 0587 narrow return operators
- F. Door operator gear/sheave/bearing assembly

To Replace Motor

Part Number **0560** and **0569** Door Operator (shown at left)

1. Remove bolts (B).
2. Loosen sheave bearing bolt (A) enough to clear thread on motor.
3. Disconnect motor leads.
4. Remove motor.
5. Install new motor.
6. Replace bolts (B).
7. Tighten bearing bolt (A).
8. Reconnect wires. Make sure motor rotates in proper direction. Motor has 5 wires identified by label.

Part Number **0587** Door Operator (shown at left)

1. Remove bolts (B).
2. Loosen sheave bearing bolt (A) $\frac{1}{8}$ " (3mm).
3. Open boxes and disconnect motor leads.
4. Loosen lock nut, allowing box to be removed from nipple.
5. Remove nipple from motor housing and mount onto new motor.
6. Remove motor (D) upward and motor (E) downward.
7. Install new motor (D) diagonally downward and (E) upward. Make sure that the slotted lug is bottomed on the sheave bearing bolt (A)! This ensures proper gear setting and alignment.
8. Replace bolts (B) on both motors. Tighten bearing bolt (A) carefully and firmly.
9. Reconnect conduit and wires. Make sure motor rotates in proper direction for each speed. Red wires are high speed. Black wires are slow speed. Each motor has three wires; one wire of each motor is the common wire.

Questions? Answers at...

Car Gate/Car Door Shoes & Contacts

Car Gate Panel [4 Shoes]

1958–Present

Part No.	Description	"A" Dimension
0239	Guide Shoe	1.312" (33mm)

1935–1958

Part No.	Description	"A" Dimension
0233/0235	Roller Shoe–Sub 0255	2.5"(64mm)

Prior to 1935

Part Number	Description	"A" Dimension
027	Guide Shoe–Sub 0238	0.937" (24mm)

To attach Guide Shoes, use (2) $\frac{5}{16}$ " x $\frac{5}{8}$ " Hex Head Cap Bolts with Flat Washer and Lockwasher.

Car Gate Counterweight [2 Shoes]

1935–Present

Part Number	Description
0232	Counterweight Shoe

To attach 0232 shoe, use (2) Peelle #02325 bolts with thread-locker, no lock washer, no flat washer.

Gate Contacts

1955–Present

Part Number	Description
2341	Gate Contact

Used with vertically sliding manual or power operated car gate as the electric contact. NEMA 1/IP10. The individual parts of the Peelle #2341 contact are universal in hand; reversing the covers will determine left or right hand assembly.

Part Number	Description
234316	Cam. Universal in hand.

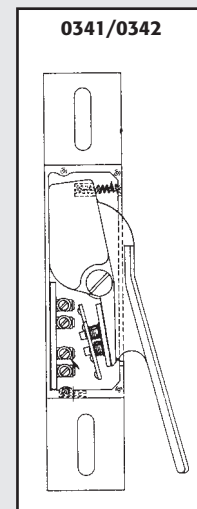
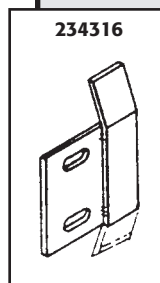
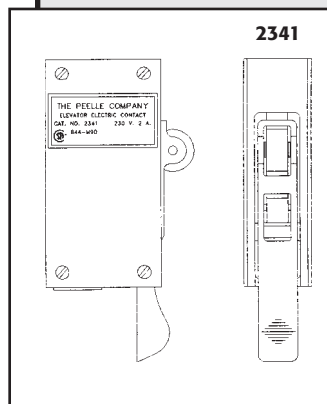
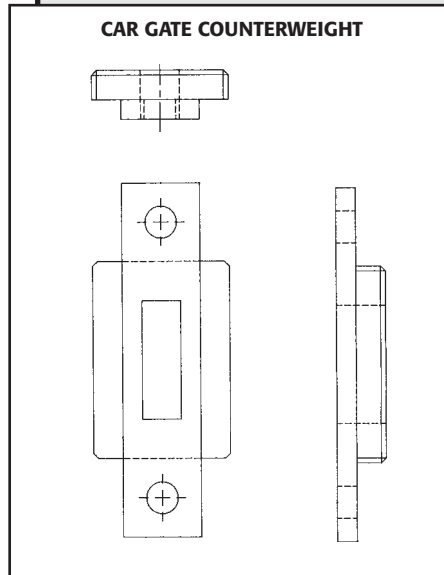
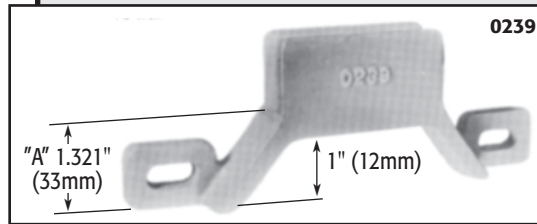
Used with but not part of Peelle #2341 Gate Contact. Must order separately.

1930–1954

Part Number	Description
0341/0342	Gate Contact–Sub #0342 Gate Contact

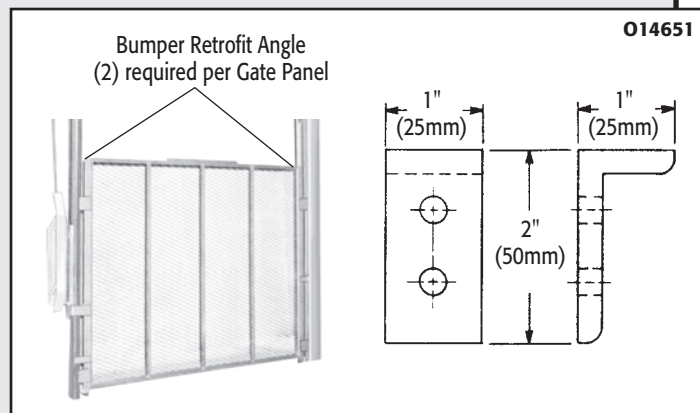
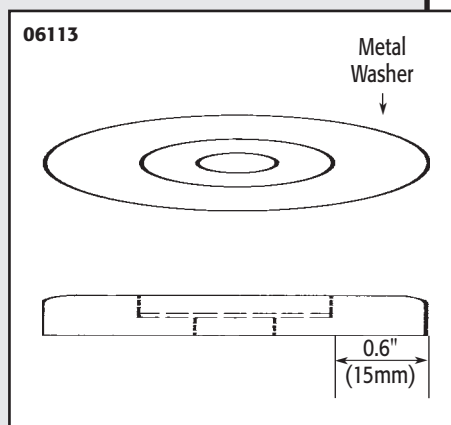
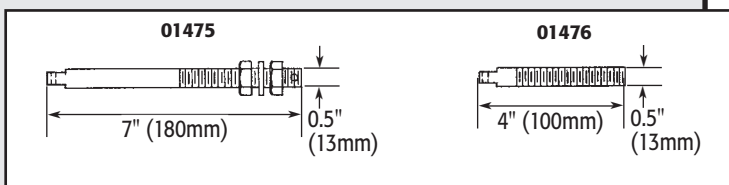
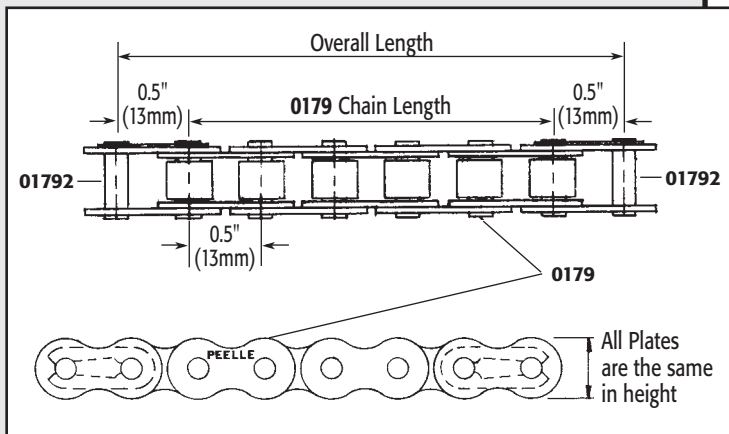
Note: Gates prior to 1960: Move car gate contact out of the reach of persons inside the car with Peelle Kit #23436 (not shown).

Note: Peelle #2368 (not shown) is used as a car gate/car door restraint device when car is away from floor.



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Car Gate Chains & Panel Parts

Gate Chains

1968–Present

Part Number	Description
0179	Roller Chain (need length)
01792	Connecting Links (order separately)

1930–1968

Part Number	Description
0165	Chain-Sub #0179
0166	Chain-Sub #0179

Note: Peelle #0179SS Stainless Steel Chain is available. Peelle #01794 Chain Assembly is 0179 chain and (2) 01792 Connecting Links.

Chain Studs

1968–Present

Part Number	Description
01475	Chain Stud for Panel
01476	Chain Stud for Counterweight
01468	Two Section Gate Chain Stud (not shown)

Bumpers

1968–Present

Part Number	Description
06113	Bumper (2) Required on Bottom of Car Gate Panel.

Bumper Retrofit Angle

1960–1980

Part Number	Description
014651	Bumper Retrofit Angle

Bumper Retrofit Angle (2) required per Gate Panel to extend life of Peelle #063 Bumper. Mount on top of gate panel. Replace Peelle (2) #063 Bumpers on gate rails at same time.

Car Gate Panel Replacements – See *Peelle Modernization Guide* 312 Section 8

Car Gate Rails Replacements – See *Peelle Modernization Guide* 312 Section 9

Questions? Answers at...

Car Gate Operators, Sheaves & Limits

Power Gate Operators 1950–Present

Operator Number	Motor Number	Description	Door Width
2518	25182	Standard Torque	Less than 10' (3000mm)
2517	25172	High Torque	10' and over
2548	25482	Standard Torque NEMA 4/12/IP54/56	Less than 10'
2547	25472	High Torque NEMA 4/12/IP54/56	10' and over
2548M	25482M	Standard Torque NEMA 4X/IP56	Less than 10'
2547M	25472M	High Torque NEMA 4X/IP56	10' and over
2528	25282	Standard Torque NEMA 7/9	Less than 10'
2527	25272	Standard Torque NEMA 7/9	10' and over

Note: Motors are 220V, 3 Phase, 50/60 Hertz, 2-Speed. Parts are universal in hand. Hand is determined when assembled.

Operator Components

Part Number	Description
25181	Operator without motor, includes mounting, gear, bearing, grease fitting.
250723	8-Tooth Spiral Pinion
250725	Pinion Bolt

Manual Gate Sprockets 1950–Present

Part Number	Description
2570	Manual Assembly–Single Sprocket
2571	Manual Assembly–Double Sprocket
250722	Sprocket with Bearing–for 2570 or 2571

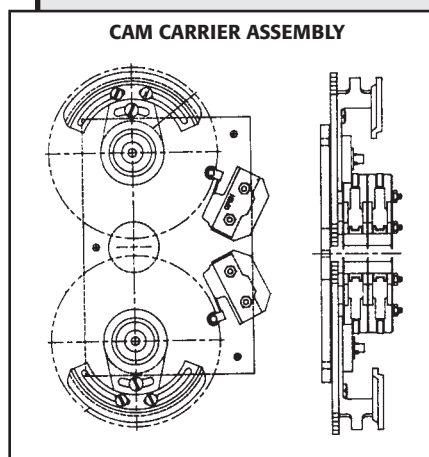
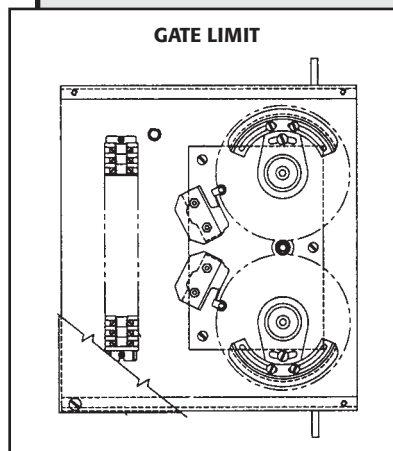
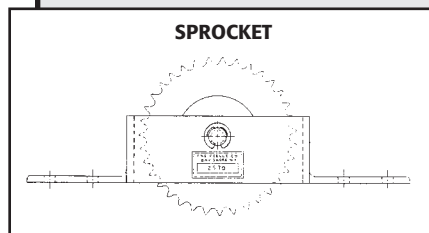
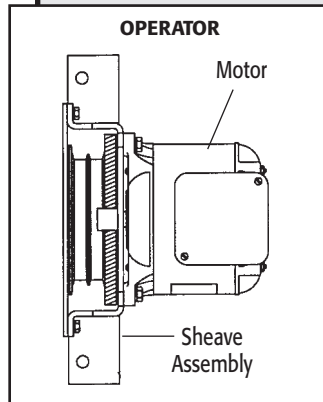
Gate Limits 1950–Present

Part Number	Description
0935L	Gate Limit Assembly, Left hand, opposite as shown
0935R	Gate Limit Assembly, Right hand, shown
0960 L/R	Limit Assembly, NEMA 4/12/IP54/56
0961 L/R	Limit Assembly, NEMA 4X/IP56
0949 L/R	Limit Assembly, NEMA 7/9

Hand determined standing on car facing door.

Limit Components

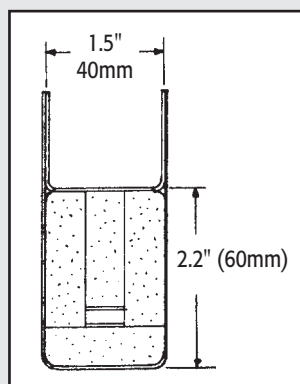
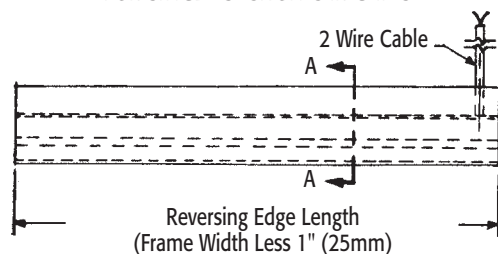
Part Number	Description
093520	Cam Carrier and Switch Assembly
09350	Sprocket and Plates Assembly (inc. Peelle 093527, 09353, 09356, 05468)
093444	Micro-Switch, Typical Marking BZ-2RW822T
093445	Micro-Switch, Typical Marking BZ-3YWT822



Questions? Answers at...

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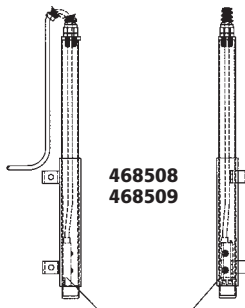
068412 REVERSING EDGE FOR SINGLE-SECTION CAR GATES



468508 SOURCE



468508 DETECTOR

468508
468509

Reopening Devices

Reversing Edge, Contact Type

(Give length or job number)

1962 to Present

Part Number	Description
068412	Reversing Edge, NEMA 1/IP10 (give length)
469501	Reversing Edge, NEMA 7/9, Pneumatic (give length)

Reversing Edge-Related (order separately)

Part Number	Description
068442	3-Wire Travel Power Cord (used with 068412)(give length)

Reversing Beam, Non-Contact Type

Part No.	Description
46899	Sensor Beam Replacement Kit (moisture resistant)
468508 & 468509	Source & Detector, for Reversing Beams. (sold together)

Components

Part Number	Description
468508	Sensor Beam Source, LH Side-Order as 46889 Kit Less Transformer and Relay
468509	Sensor Beam Detector, RH Side-Order as 46889 Kit Less Transformer and Relay

Hand determined standing on car facing door.

Related (order separately)

Part Number	Description
068440	4-Wire Travel Power Cord (used with Sensor Beam)(give length)

To add reopening device to Peelle car gates 1962 to present
See Peelle Modernization Guide 312 Section 10 and use 46889 Kit.

To change Simultaneous Operation to Sequence Operation
See Peelle Modernization Guide 321 Section 11

Questions? Answers at...

Door/Gate Controllers

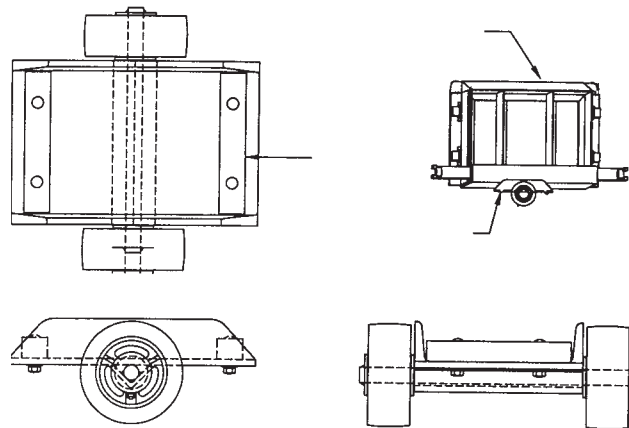
Controller Components

[110/220 Volts, 3 Phase, 50/60 Hertz]

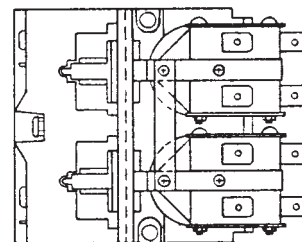
1950 to Present

Part Number	Description
075155	Fuse, 10 Ampere
076200	Transformer 220/120-15V
076202	Fuse, 1.5 Ampere
076203	Fuse, 0.25 Ampere
07623	Relay
076245	Relay
076255	Relay (12V)
076262	Relay
07628	Contactors
076287	Coil
076289	Micro Switch
079061	Relay
079064	Relay
079066	Timer, 3 Minute, TP
079402	Timer, 0.4-4 Seconds
275510	Relay
276705	Timer, 25-256 Seconds
276706	Timer, 3-32 Seconds
276708	Timer, 30 Seconds, OT/CT
277607	Trans 220/120-24V
277608	Fuse, 2 Ampere

Controllers manufactured prior to 1969 should be upgraded with new, replacement controllers to reduce motor burnouts. The cost of a new controller is less than several motor replacements.



07628



Controller Manuals [Peelle No. 201]

Job Date	Controller Series	Manual Date	Relay Voltage
1930-1948	-	1938	220
1948-1950	-	1950	220
1951-1953	0751	1953	220
1953-1956	075132	1954	220
1966-1969	0759	use 1954	220
1969-1969	0762	1969	110V
1969-1974	0765 (sockets)	1972	110V
1974-1979	2765 (plug-in timers)	1974 revised 1979	110V
1979-1986	2767 (Fire Service included)	1974 revised 1979	110V
1986-1994	2776 (no push-button back contacts)	1989	110V
1995-1999	2776 (may have sensor beam)	1989 revised 1998	110V
2000-Present	2741 (miniature relays)	1989 revised 1998	110V
2002-Present	2742 (PLC) (no service tool required)		

Controller Maintenance

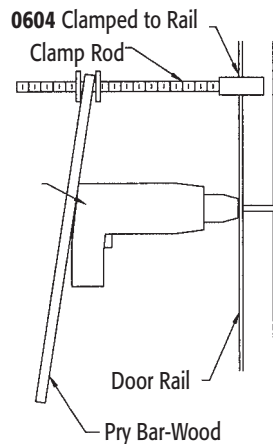
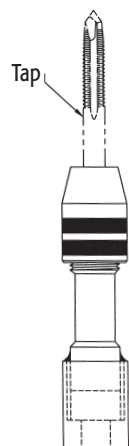
See Peelle Maintenance Manual 204, section 18.

Controller Replacement or Modification

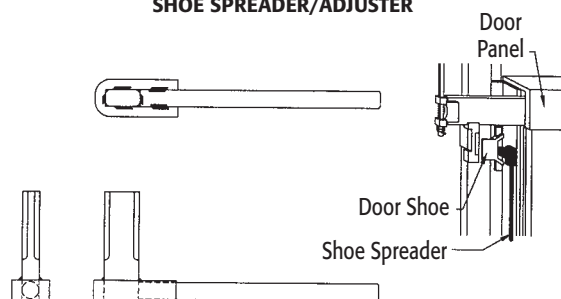
See Peelle Modernization Guide 312, section 11.

Questions? Answers at...

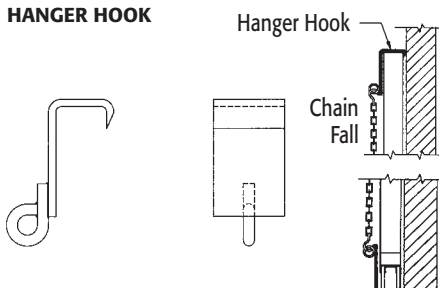
Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

RAIL DRILLING CLAMP ASSEMBLY**RAIL TAP HOLDER****Rail Drilling Clamp Assembly**Part Number **0604****Rail Tap Holder**Part Number **0602**

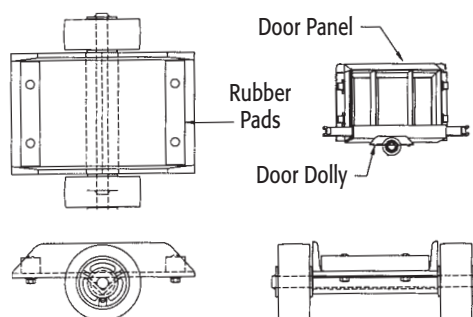
Rail Tap Holder for impact tool

SHOE SPREADER/ADJUSTER**Shoe Spreader/Adjuster**Part Number **0603**

Shoe Spreader/Adjuster for Peelle Shoes 1930 to Present

HANGER HOOK**Hanger Hook**Part Number **0605**

Hanger Hook for hanging Chain Fall from top of door and for hoisting Upper Door Panel

DOOR DOLLY ASSEMBLY**Door Dolly Assembly**Part Number **0606**

Door Dolly Assembly for Biparting Doors and Car Gates with Crating

Questions? Answers at...

POWER PRODUCTS

In This Section

Capacitors 26.2-3

Power Semiconductors 26.4-5



ELEVATOR SUPPLY DIVISION

CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC.

Questions? Answers at...

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or 1-866-233-3538 • Fax 1-562-427-8429

Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

Capacitors



OEM Xref	Mfr	Commercial #	Case Style	Micro-Farads	Working Voltage
Kone 46279-100	Xicon	140-XAL25V100	Axial Lead	100	25 VDC
Dover 9828953, 32895	Xicon	140-XAL50V220	Axial Lead, Electrolytic	220	50 VDC
Dover 9876212, 141108					
Dover 9715046, 238AK1	Xicon	140-XAL50V680	Axial Lead, Electrolytic	680	50 VDC
Dover 9719040, 341AM1	Vishay	715P473512MD3	Axial Lead, Metalized Polyester	0.047	1200 VDC
K473K20X7RF53L2	Vishay	192P473X9080	Axial Lead, Metalized Polyester	0.047	50 VDC
Dover 9845940, 17586360	G.E.	97F5276	Can Type, Non-Polarized	60	370 VAC
Dover 9763302, Dover 76330	Mallory	CG501U150R3C	Computer Grade Can	500	150 VDC
Otis 226W1	Mallory	CGS162U150R2L	Computer Grade Can	1600	150 VDC
US 936-60042-000	Mallory	CGS532U150U4C	Computer Grade Can	5300	150 VDC
Kone 47282	Mallory	CGS253U016R4C	Computer Grade Can	25000	16 VDC
	Mallory	CGS102T200V2C	Computer Grade Can	1000	200 VDC
	Mallory	CGS162T200V3C	Computer Grade Can	1600	200 VDC
	Mallory	CGS202T200V4C	Computer Grade Can	2000	200 VDC
	Mallory	CGS222T200V4C	Computer Grade Can	2200	200 VDC
	Mallory	CGS502T200W5C	Computer Grade Can	5000	200 VDC
	Mallory	CGS542T200X4L	Computer Grade Can	5400	200 VDC
	Mallory	CGS742T200X5L	Computer Grade Can	7400	200 VDC
Otis 226H2	Mallory	CGS251T250R2C	Computer Grade Can	250	250 VDC
Otis 226H4	Mallory	CGS251T250R2C	Computer Grade Can	250	250 VDC
		w/Add'l Hardware			
Otis 226H9	Mallory	CGS251T250R2C	Computer Grade Can	250	250 VDC
	Mallory	CGS551T250R4C	Computer Grade Can	550	250 VDC
	Mallory	CGS721T250R4C	Computer Grade Can	720	250 VDC
Dover 9849956, Otis 238AH1	Mallory	CGS122T250R3C	Computer Grade Can	1200	250 VDC
	Mallory	CGS122T250V3C	Computer Grade Can	1200	250 VDC
	Mallory	CGS252T250V5L	Computer Grade Can	2500	250 VDC
	Mallory	CGS502T250W3L	Computer Grade Can	5000	250 VDC
	Mallory	CGS131T350R2C	Computer Grade Can	130	350 VDC
	Mallory	CGS251T350R3C	Computer Grade Can	250	350 VDC
	Mallory	CGS331T350R2C	Computer Grade Can	330	350 VDC
	Mallory	CGS381T350R4C	Computer Grade Can	380	350 VDC
	Mallory	CGS481T350R2L	Computer Grade Can	480	350 VDC
Aarmor 11034-01	Mallory	CGS651T350V3C	Computer Grade Can	650	350 VDC
	Mallory	CGS651T350V3C	Computer Grade Can	650	350 VDC
	Mallory	CGS801T350V4C	Computer Grade Can	800	350 VDC
	Mallory	CGS102T350R4C	Computer Grade Can	1000	350 VDC
Aarmor 11034-01	Mallory	CGS102T350R4C	Computer Grade Can	1000	350 VDC

Questions? Answers at...

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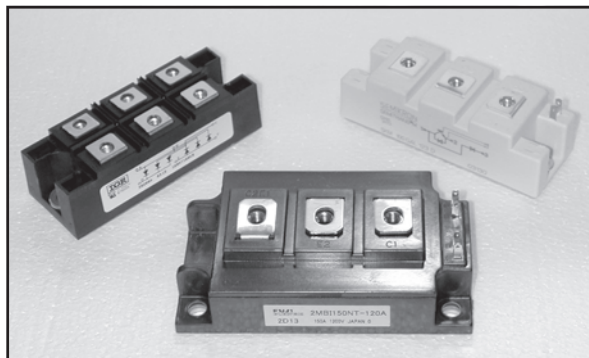
Capacitors

OEM Xref	Mfr	Commercial #	Case Style	Micro-Farads	Working Voltage
Armor 11035-01	Mallory	CGS212T350X4C	Computer Grade Can	2100	350 VDC
	Mallory	CGS222T350W5L	Computer Grade Can	2200	350 VDC
Kone 713994G06	Mallory	CGS332T350V5L	Computer Grade Can	3300	350 VDC
	Mallory	CGS422T350X4C	Computer Grade Can	4,200	350 VDC
	Mallory	CGS632T350X5L	Computer Grade Can	6,300	350 VDC
	Mallory	CGS103T350X8L	Computer Grade Can	10,000	350 VDC
	Mallory	CGS123T350X8L	Computer Grade Can	12,000	350 VDC
	Mallory	CGS272U040R2C	Computer Grade Can	2700	40 VDC
Dover 9768439	Mallory	CGS781T400V4C	Computer Grade Can	780	400 VDC
Dover 9778044	Mallory	CGS750T450R2C	Computer Grade Can	75	450 VDC
	Mallory	CGS101T450R2C	Computer Grade Can	100	450 VDC
Armor 11025-01	Mallory	CGS101T450R2C	Computer Grade Can	100	450 VDC
	Mallory	CGS101T450R2C	Computer Grade Can	100	450 VDC
Dover 9727759	Mallory	CGS141T450R3C	Computer Grade Can	140	450 VDC
	Mallory	CGS141T450R3C	Computer Grade Can	140	450 VDC
US 936-40003-000	Mallory	CGS171T450R3C	Computer Grade Can	170	450 VDC
	Mallory	CGS211T450R4C	Computer Grade Can	210	450 VDC
	Mallory	CGS251T450R4C	Computer Grade Can	250	450 VDC
	Mallory	CGS321T450V3C	Computer Grade Can	320	450 VDC
	Mallory	CGS351T450R2L	Computer Grade Can	350	450 VDC
	Mallory	CGS451T450V3C	Computer Grade Can	450	450 VDC
	Mallory	CGS621T450V2L	Computer Grade Can	620	450 VDC
	Mallory	CGS651T450V4C	Computer Grade Can	650	450 VDC
	Mallory	CGS681T450R4C	Computer Grade Can	680	450 VDC
	Mallory	CGS801T450V4L	Computer Grade Can	800	450 VDC
Dover 9755196, 238AW1	Mallory	CGS931T450V3C	Computer Grade Can	930	450 VDC
	Mallory	CGS102T450R5L	Computer Grade Can	1000	450 VDC
	Mallory	CGS112T450U4C	Computer Grade Can	1100	450 VDC
	Mallory	CGS142T450V4C	Computer Grade Can	1400	450 VDC
	Mallory	CGS152T450X4C	Computer Grade Can	1500	450 VDC
	Mallory	CGS202T450X5C	Computer Grade Can	2000	450 VDC
	Mallory	CGS202T450X5C	Computer Grade Can	2000	450 VDC
	Mallory	CGS222T450V5L	Computer Grade Can	2200	450 VDC
	Mallory	CGS252T450X3L	Computer Grade Can	2500	450 VDC
	Mallory	CGS332T450X5L	Computer Grade Can	3300	450 VDC
Kone 49732	Mallory	CGS413U050X4L	Computer Grade Can	41000	50 VDC
Dover 9716865, Otis 238AL1	Mallory	CGS282T500X4L	Computer Grade Can	2800	500 VDC
Otis 226D1	PLCC	CM6-105B	Computer Grade Can	1	600 VDC
Otis 226D2	PLCC	CM6-255B	Computer Grade Can	2.5	600 VDC
Dover 76418	Mallory	CGS152U075R3C	Computer Grade Can	1500	75 VDC
Dover 9764185, Dover 76418	Mallory	CGS152U075R3C	Computer Grade Can	1500	75 VDC
Kone 46218	CDE	500C432U075AA2B	Computer Grade Can	4300	75 VDC
Otis 226W2	Mallory	CGS162U150R2L & DALE HL-10-06Z-2	Computer Grade Can (with terminal mounted resistor)	1600	150 VDC
Otis 226W3	Mallory	CGS162T200V3C & DALE HL-10-06Z-2	Computer Grade Can (w/terminal mounted resistor)	1600	200 VDC
Kone 49136-010	G.E.	97F5300	Oval Can Type, Non-Polarized	10	440 VAC
Kone 49136-020	G.E.	97F9625	Oval Can Type, Non-Polarized	20	440 VAC
Kone 49136-040	G.E.	97F9642	Oval Can Type, Non-Polarized	40	440 VAC
Dover 9715344	G.E.	97F8670	Oval Can Type, Non-Polarized	2	600 VAC
Otis 232AE1	Dale	HL10-10-06Z-2	Terminal Resistor	250 OHM	

Questions? Answers at...

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Power Semiconductors



OEM	Commercial	Max	Max		Circuit
Cross Reference	Mfr	Number	Amperage	Voltage	Configuration
	Ideal	30-024 Noalox Tube	N/A	N/A	Antioxidant 1/2-oz. Tube
	3M	2209	N/A	N/A	ESD Wrist Strap
	Powerex	KS221K10	100	1000	Darlington
Otis 230BS1	Gen. Inst.	GBPC2501	25	100	Diode Module
Otis 230BS2	Gen. Inst.	GBPC2502	25	200	Diode Module
Montgomery 46217-040	Gen. Inst.	GBPC2504	25	400	Diode Module
Otis AAA612AJ2	Int'l Rectifier	26MT60	25	600	Diode Module
Otis 230BS3	Gen. Inst.	GBPC2506	25	600	Diode Module
Otis AAA612AM4, Montgomery 46217-100	Gen. Inst.	GBPC2508	25	800	Diode Module
Otis P230BP3	Semikron	SKD25/08	25	800	Diode Module
Dover 9854903	Semikron	SKB 25/12	25	1200	Diode Module
	Powerex	ME701203	30	1200	Diode Module
Montgomery 47472-040	Int'l Rectifier	36MB40A	35	400	Diode Module
Montgomery 47472-060	Int'l Rectifier	36MB60A	35	600	Diode Module
Otis 230BS5	Gen. Inst.	GBPC3506	35	600	Diode Module
Montgomery 46272-111	Int'l Rectifier	36MB100A	35	1000	Diode Module
Dover AAA612AJ1	Int'l Rectifier	36MT100 or 36MT100A	35	1000	Diode Module
Otis P230BP1	Semikron	SKD50/04-A3	50	400	Diode Module
AAA612AW4	Int'l Rectifier	110MT100KB	110	1000	Diode Module

Questions? Answers at...

Power Semiconductors

OEM		Commercial	Max	Max		Circuit
Cross Reference	Mfr	Number	Amperage	Voltage	Type	Configuration
Dover 9850879	Toshiba	MG25Q2YS40	25	1200	IGBT	Dual
Dover 9716956	Toshiba	MG50Q2YS9	50	1200	IGBT	Dual
	Powerex	CM75DY24H	75	1200	IGBT	Dual
Dover 9716981	Toshiba	MG75Q2YS9	75	1200	IGBT	Dual
Dover 9717134	Toshiba	MG100Q2YS1	100	1200	IGBT	Dual
	Powerex	CM150DY-24H	150	1200	IGBT	Dual
Dover 9717171	Toshiba	MG150Q2YS40	150	1200	IGBT	Dual
	Powerex	CM200DY-24H	200	1200	IGBT	Dual
Dover 9717330	Toshiba	MG200Q1US41	200	1200	IGBT	Dual
	Toshiba	MG300Q1US41	300	1200	IGBT	Dual
Dover 9756590	Powerex	PM50RSA120	50	1200	IPM Module	Six-Pack
Dover 9756607	Powerex	PM75CSA120	75	1200	IPM Module	Six-Pack
Dover 9756541	Powerex	PM75DSA120	75	1200	IPM Module	Dual
Dover 9756619	Powerex	PM100CSA120	100	1200	IPM Module	Six-Pack
Dover 9756553	Powerex	PM100DSA120	100	1200	IPM Module	Dual
Dover 9816860	Powerex	PM150CVA120	150	1200	IPM Module	Six-Pack
Dover 9756565	Powerex	PM150DSA120	150	1200	IPM Module	Dual
	Powerex	PM200CVA060	200	600	IPM Module	Six-Pack
Dover 9756577	Powerex	PM200DSA120	200	1200	IPM Module	Dual
Dover 9816770	Powerex	PM200DVA120	200	1200	IPM Module	Dual
Dover 9756589	Powerex	PM300DSA120	300	1200	IPM Module	Dual
Dover 9816574	Powerex	PM400HSA1200	400	1200	IPM Module	Dual
	Powerex	ND431225	250	1200	SCR	Dual SCR
Montgomery 61798	Allen Bradley	SP-192704 Kit (SKKT56/12E, 30-024 Antioxidant & 2209 Wrist Strap)	95	1200	Thyrister/Diode Module	Dual
Montgomery 61799	Semikron	SKKT56/12E	95	1200	Thyrister/Diode Module	Dual
Montgomery 61801	Semikron	SKKT-161/12, Replaced by SKKT253/12	253	1200	Thyrister/Diode Module	Dual
Kone 264513	Semikron	SKM300GB-123D	300	1200	IGBT	Dual

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Notes



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Full line catalog available upon request

RAIL INSTALLATION & ALIGNMENT



Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

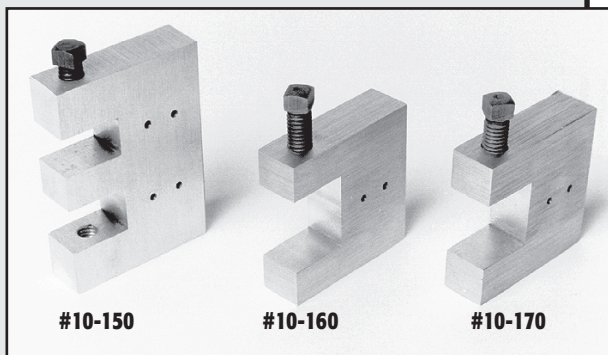
or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

27

In This Section

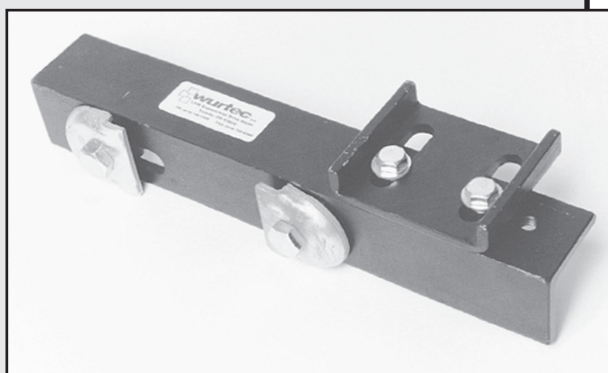
Plumb Line Clamps	27.2
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Plumb Line Clamps

These clamps have been designed to accurately secure the plumb line $\frac{1}{2}$ " or 1" from the center of the rail face. They are made of high-strength, lightweight aluminum. The combination plumb line clamp has been designed for $\frac{5}{8}$ " and $\frac{3}{4}$ " rail faces.

Part Number	Size
10-150	$\frac{5}{8}$ " & $\frac{3}{4}$ "
10-160	1 $\frac{1}{8}$ "
10-170	1 $\frac{1}{4}$ "



Adjustable Plumb Line Clamp

This adjustable plumb line clamp works ideally with the realignment pointer set (#10-110), by allowing you to drop your plumb line to the side of the rail. This provides you with an accurate reference in the hoistway, adjacent to the rail and without interference from the car.

Part Number **10-180**



Intermediate Plumb Line Clamp

Don't let wind or solar loads affect your extra long plumb lines. Simply install these intermediate clamps where needed to control your lines. Loosen the screw, slip the line into the proper hole, tighten and mount to aligned rail. You are now ready to continue aligning between clamps.

Part Number **10-151** ($\frac{5}{8}$ " & $\frac{3}{4}$ ")

Questions? Answers at...

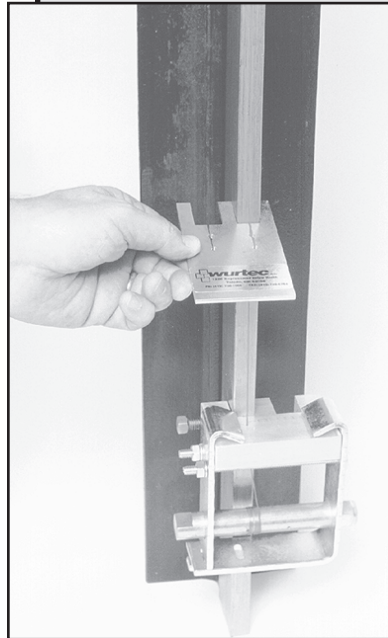
Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Plumb Line Tensioner & Gauges, Piano Wire

Plumb Line Tensioner

Easily maintains tension in plumb line up to its ultimate breaking strength. Lightweight, compact, easy to install over our plumb line "clamp" (#10-150, 160 & 170)...Re-tensions in seconds, if required. Pays for itself by the end of first job. Plated finish for longer life against the elements.

Part Number **10-190**

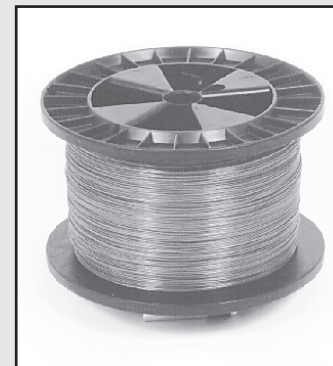


Piano Wire

This important part of the rail alignment system is available in one and three pound packages. There are approximately 440 feet of wire per pound. The diameter of wire is 0.029" and the ultimate breaking strength is 200 pounds.

Part Number	Description
13-100	Coil-1 lb.
13-110	Spool-3 lb.

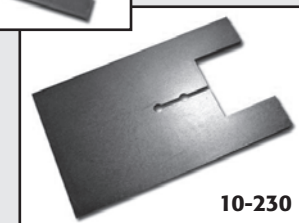
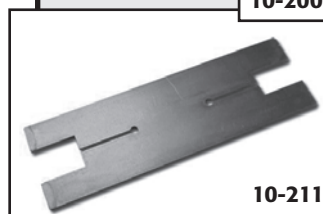
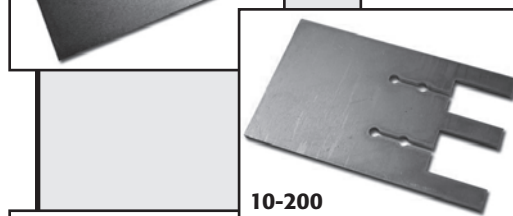
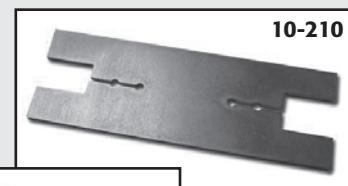
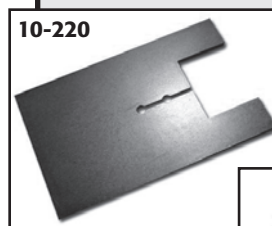
NOTE: Other diameters, lengths and types of wires are available upon request.



Plumb Line Gauges

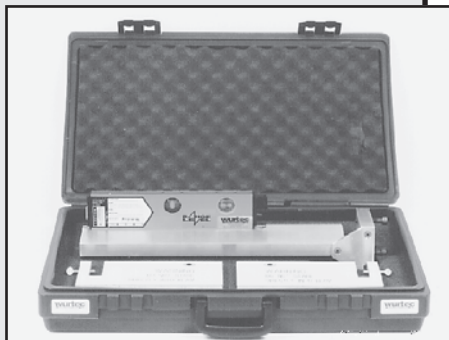
These gauges have been designed to readily indicate the rail placement and alignment relative to a plumb line located from our clamps. They are made of 1/8" steel and plated for protection against the elements. The combination gauges are made for 5/8" and 3/4" rail faces. The slots are either adjacent (#10-200) or located front to rear (#10-210), for your convenience.

Part Number	Description
10-200	5/8" & 3/4" Combo
10-210	5/8" & 3/4" Combo Front/Rear
10-211	5/8" & 3/4" Combo Front/Rear & False Car
10-220	1 1/8"
10-230	1 1/4"



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

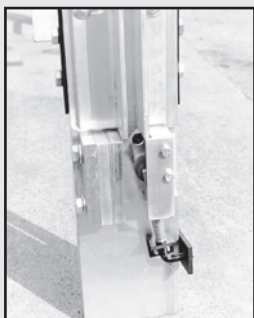


Alignment System & False Cars

Laser Alignment System

This Laser Alignment System can be used to realign the rails in a hoistway or to align them for the first time. It is also great for surveying the hoistway in preparation for installing your equipment.

Part Number **10-114**



Aluminum False Car

The Aluminum False Car has been designed with the user in mind. It is flexible and easy to use. The false car adjusts easily to fit rail systems with DBG's of 5' 6" to 9' 0". It is built of lightweight aluminum for ease of handling and installation, while still providing the strength for a 1,500 capacity car. This unique false car adjusts to fit rail faces of $\frac{5}{8}$ ", $\frac{3}{4}$ ", $1\frac{1}{8}$ " and $1\frac{1}{4}$ ". It comes complete with all but the hoisting hardware. Available for purchase or rent.

Part Number **11-301**



Aluminum False Car Canopy

Provides that extra protection, sometimes needed, when working in an open hoistway. We provide the predrilled corner posts and roof supports. You provide the lumber.

Part Number **11-350**

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Rail Files & Holders

Rail Gauge, Shims & Oilers

Adjustable Flexible File Holder

Can easily be adjusted for curving the file either outward or inward, and used with 12 or 14" files.

Part Number **10-761**

Rail File

Made from the finest, hardened steel available. When used in combination with our handle, this file is a fine tool for dressing guide rail joints and step wheel tracks on escalators, for quieter and smoother rides.

Part Number **10-750**

File Handle

Made of smoothly shaped wood that fits comfortably in the hand. Works great in combination with steel Rail File (above).

Part Number **10-760**

Rail Gauge

Assures smooth elevator operation by properly aligning rails. Use them to set guide rails facing square and for correct D.B.G.

- Quickly attaches to 1/2" or 3/4" conduit with the set screws provided in the gauge fastening bracket.
- Accurately fabricated in aluminum to provide a precision tool.

Part Number **RG12**

Universal Rail Shim

0.015 (1/64" x 2 1/2" x 7"). Slotted for ease of installation. Fits bolt patterns from 3 1/2" to 5 1/4" centers without bolt removal. Shim will not fall out if hardware loosens.

Part Number **10-125** (package of 200)

Single Slot Rail Shim

Easily added after rail is in place.

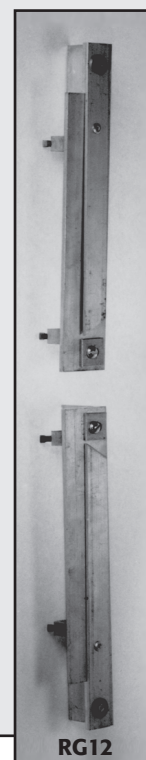
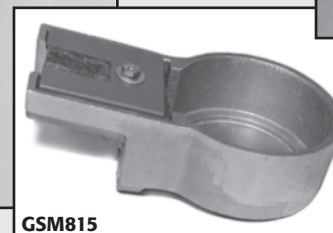
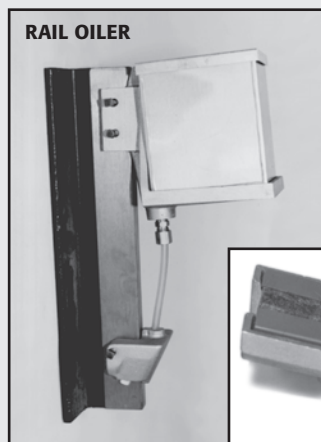
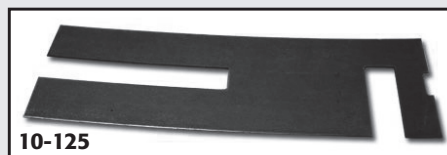
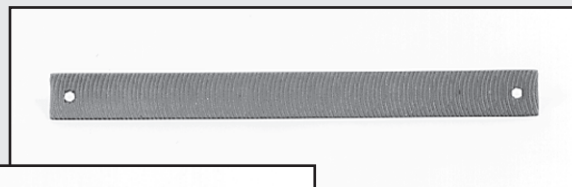
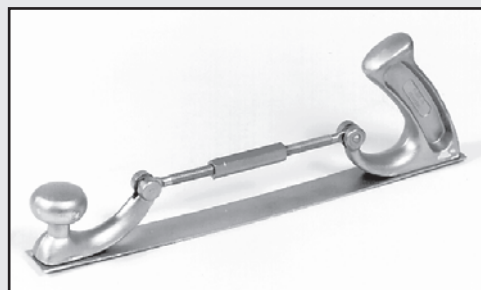
3" x 3" with 13/16" x 2" slot.

Part Number	Description
RS18	1/8" thick, 25 per pack
RS37	1/2" thick, 100-piece bundle
RS538	1/16" thick, 50-piece bundle

Rail Oilers

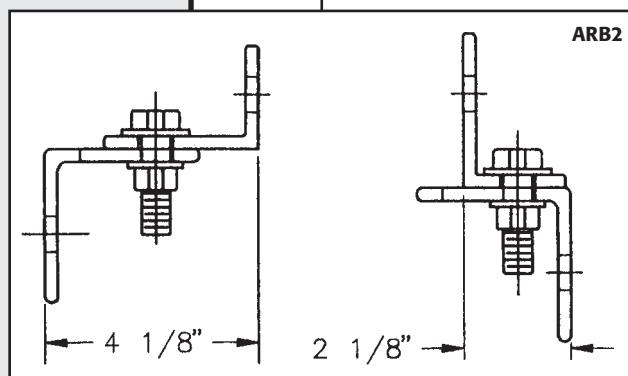
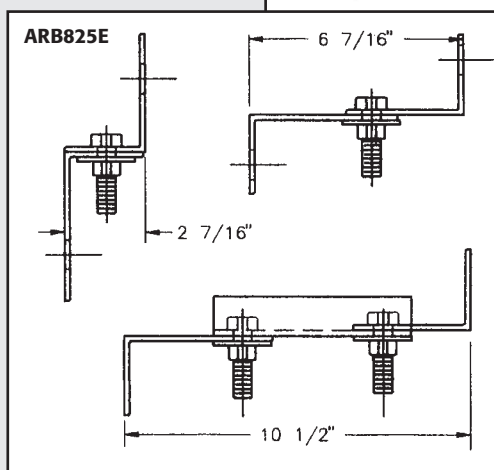
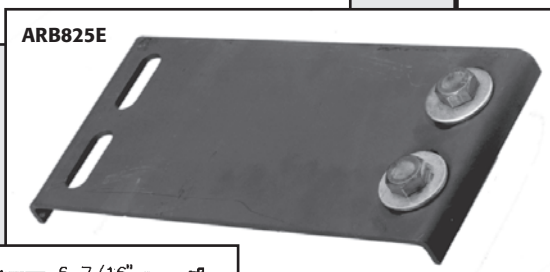
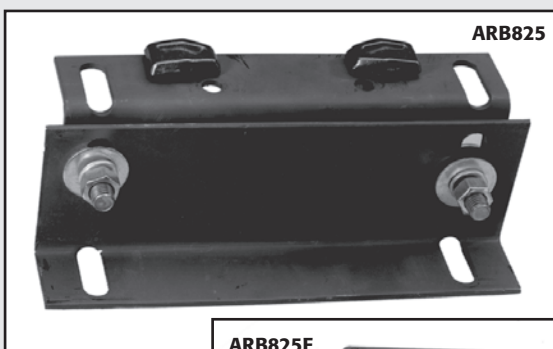
With wick and copper tubing, a controlled flow of oil moves slowly and easily down the rail, oiling and cleaning continuously.

Part Number	Description
RM815	For 8, 12, and 15 lb. guide rails
RM2230	For 22.5, and 30 lb. guide rails
GSM815	Mounts to guide shoes, set of 2



Questions? Answers at...

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Rail Brackets, Extensions & Clips

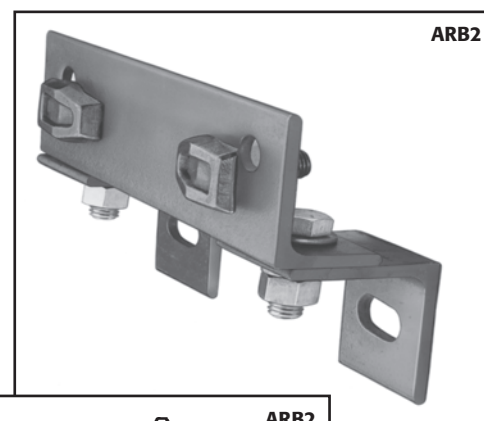
Rail Brackets

This adjustable rail bracket is made of 1/4" carbon steel. Our standard bracket adjusts from 2 1/4" to 8". For depths greater than 8" we will custom design. Fits 8, 12 and 15 lb. Rails.

Rail Brackets, Extensions & Clips

Adjustable 7-gauge carbon steel bracket fits 8, 12, 15 lb. rails. Bracket to wall. Bolts by others.

Part Number	Description
ARB825	2 7/16" to 10 1/2" adjustment
ARB825E	Extension plate with extra bolts
ARB2	2 1/8" to 4 1/8" adjustment for 15 lb. rails
C-160	Rail clip for 12lb. & 15lb. rail
C-161	Rail clip for 8lb. rail



Questions? Answers at...

Rail & Wall Inserts

Rail Inserts

Designed for maximum strength and guide rail installation ease. Independent test results have proven a shear load of 5,000 lbs. and pull out load in excess of 5,000 lbs. All inserts are made from 12 gauge rolled steel with legs and end caps made from 10 gauge steel.

- Grey enamel finish
- Insert washers are included (2 per unit)
- 5/8" washers shipped unless otherwise requested
- Complete test results available upon request

Rail Inserts

Part Number	Size	No. Legs	Dim. "A"
GI12	12"	2	12"
GI18	18"	3	18"
GI24	24"	4	24"
GI30	30"	5	30"
GI36	36"	6	36"

Other/Special sizes can be custom ordered

Wall Inserts

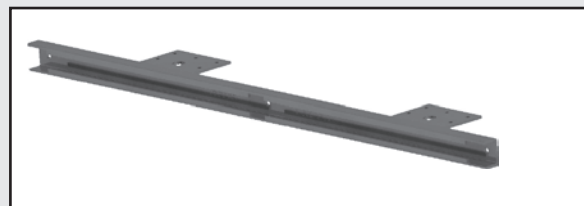
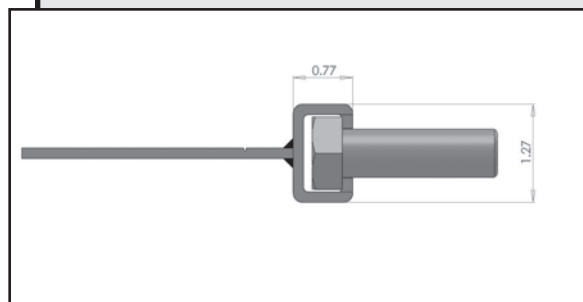
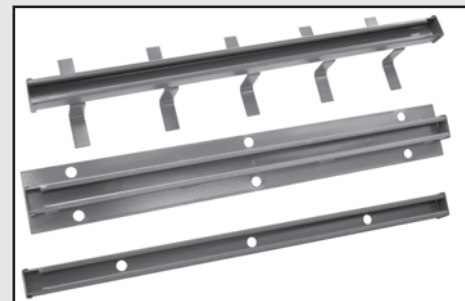
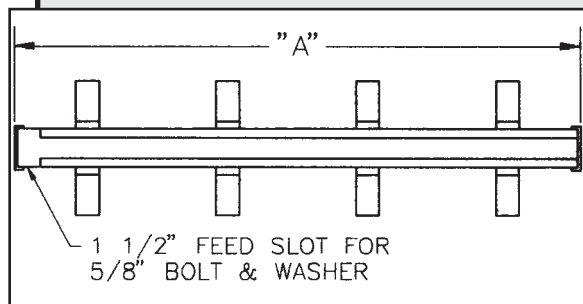
Wall insert has been designed specifically for the elevator industry. Its low profile allows it to be mounted easily on wood walls with drywall finish, embedded in block/concrete, or surface mounted wherever required. The standard hex head of a 5/8 bolt can be inserted into the channel at the slot provided in each end and the middle, once in the insert, it will not turn.

- No special hardware required
- Protection provided to prevent insert from filling with concrete
- Mounting bracket is marked to show mounting location for double thick drywall
- Custom mounting brackets available

Wall Inserts

Part Number	Length	Pull Out	Weight (lbs)
20-200-15	15"	1650 lb	2.45
20-200-24	24"	1650 lb	3.42
20-200-30	30"	1650 lb	4.05
20-200-36	36"	1650 lb	4.71
20-200-42	42"	1650 lb	5.35

20-200-CK Concrete Installation Kit. Includes 2 anchor bars and an insert that is protected from filling up with concrete.



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
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Full line catalog available upon request

SAFETY EQUIPMENT



Questions? Answers at...

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or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

In this Section

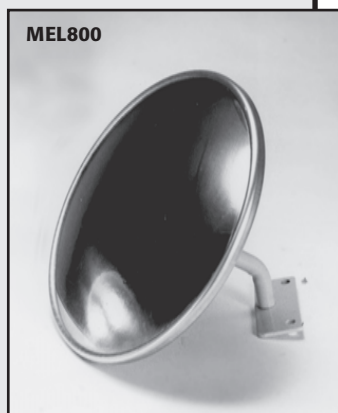
Field Employees' Safety Handbook	28.2
Safety Mirrors	28.2
Safety Glasses & Gloves	28.2
GFCI Devices	28.3
Lockout/Tagout Devices	28.3
Square Mesh Wire Cloth	28.4
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Seismic Switch	28.6



MEL99



MEL800



Safety Handbook, Mirrors Glasses & Gloves

Field Employees' Safety Handbook

- 146-page, loose-leaf style
 - User-friendly format
 - Improved illustrations
 - Heavy-duty, poly-vinyl yellow binder
- Part Number **ELEVESH**

Safety Mirrors

- Meet state law requirements
- High polished stainless metal mirror finish
- Unbreakable design
- Easy to maintain
- Tamper-proof installation
- Mounting hardware included

Part Number	Description
MEL99	10" triangular, secured from outside of cab bracket with set screw.
MEL800	8" round, quick, easy surface mounting with metal rod.

Safety Glasses

Flanker—Clear, Smoke
 Sectorlite—Yellow, Mirror, Clear, Smoke
 Strobe—Clear, Smoke

Safety Gloves

Available in small, medium, large, x-large and xx-large. Various colors available.

Models: Framed Cut Finger; Grunt; Handler; Palmer; Tacker.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

GFCI Devices Cords, Lights, Boxes & Lockout/Tagout Devices

In-line GFCI

Great for use in wet areas and construction site applications, this In-Line Cord is available in either 120V/15A, 14/3 AWG or 240V/20A, 12/3 AWG. Extension cord length varies from 1', 6', 25' and 50'. If there's a trip or power outage, manual reset is required, thus preventing unmonitored equipment start up.

GFCI Trouble Light

Perfect for industrial uses where light and electrical safety are necessary. Protected by an all metal housing and includes one extra NEMA 5-15 convenience receptacle at the light end. A 25' extension cord is attached.

GFCI Cord, 6ft.

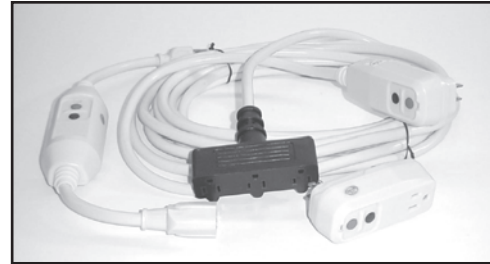
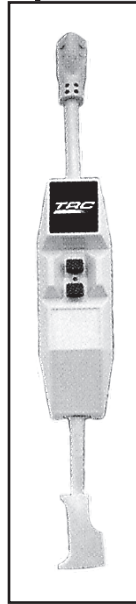
Everyone who uses an electric tool needs to ensure his own electrical protection! This 6-foot outdoor cord has a 15 amp. GFCI built into the male plug, with a test/reset button included. The other end has a molded-on POWERLITE power indicator plug that illuminates to show that the power is on. Meets or exceeds UL, OSHA or NEMA specifications.

GFCI Protected Quad Box

This 20 amp quad box is built to protect both pairs of receptacles. Its special features include T-slotted receptacles to allow both 15 and 20 ampere rated tools, with either NEMA 5-15 or NEMA 5-20 plugs. The second feature includes a "fast breaker" which is built into the heavy resistant box. This is great for fast reset should a power overload occur. Available in both 25' and 50' lengths.

Lockout/Tagout Devices

Part Number	Description
IDEAL44785	Cleat for 277V Breaker Lockout
IDEAL44786	480/600V Lockout
IDEAL44789	Wall Switch Lockout
IDEAL44807	480/600V Multi-Pole Breaker Lockout
IDEAL44809	Universal 277V SP Breaker Lockout
IDEAL44810	Hinged 1-Pole Breaker Lockout
CSRK436	Combination Padlock
PANPSL1	Padlock Hasp, 1" Jaw w/Overlapping Tabs
ED602	Padlock Hasp, 1" Jaw without Tabs
PANPVT57Q	Lockout Tag "Locked to protect workman repairing machinery." 25pk



Tri-Tap GFCI Cords & GFCI Receptacle Adapters

Part Number	Description
TOW30334304	25ft. Tri-tap GFCI Cord
TOW30334305	50ft. Tri-tap GFCI Cord
TOW30339005	GFCI Receptacle Adapter
TOW30338018	2ft. GFCI Cord
TOW30338022	6ft. GFCI Cord



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Barclays California Code of Regulations

(applies to 1970–August 8, 1997)

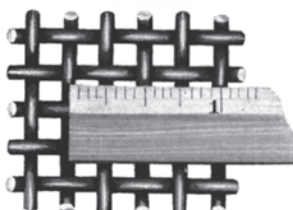
2.(c) Guarding of Counterweights in a Multiple-Elevator Hoistway

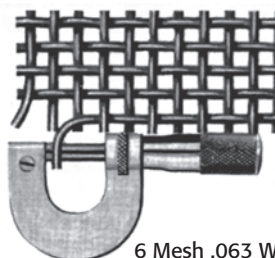
(1) Where counterweights are located between elevators in a hoistway having more than one elevator, the counterweight shall be guarded for the entire height of the hoistway. The guard shall extend at least 6 inches horizontally beyond each counterweight rail. The guard shall be made from wire-mesh material equal to or stronger than .048-inch diameter wire with openings not exceeding 1/2-inch, securely fastened to keep the guard taut and plumb.

(2) The guarding of counterweights required in Section 3013(c)(1) shall be accomplished within three years of the effective date of this regulation. (Title 24, Part 7, Section 7–3013.)

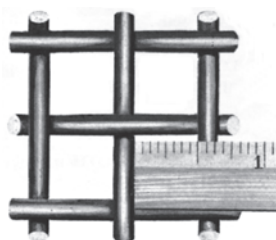
OHSA Regulations require the installation of screening between adjacent elevator hoistways to protect workers from injury.

The National Elevator Industry's Field Employee Safety Handbook, Section 8.3, "Hoistway Screening," requires that, "When an elevator is operating in a multiple hoistway, and construction or modernization work is to be performed, in an adjacent position of that multiple hoistway, that portion of the elevator hoistway where the work is to be performed, shall be fully separated."

MESH

 4 Mesh .092 Wire,
.158 Opening

WIRE


6 Mesh .063 Wire

OPENING


.50 Opening



Hoistway Safety Netting & Guard System

Square Mesh Wire Cloth

- Galvanized, Hot-Dipped after Welded
- Mesh: 1/2" x 1/2" (center to center)
- .063" diameter wire
- Rolls are 100 feet long and are available in widths of 18, 24, 30, 36, 48, 60 and 72 inches.

Specifications

Mesh

Number of openings per lineal inch. Measured from the center of wires. The number of openings precedes the word "Mesh."

Wire

The diameter of wire (in decimals) used in weaving cloth.

Opening

The size of clear opening between parallel wires. For a given mesh, the space is determined by the diameter of wire used.

PearlWeave Hoistway Safety Netting

PearlWeave netting, when installed vertically inside elevator hoistways, provides protection equivalent to that of wire mesh. It replaces screening behind traveling cables, protects counterweight frames, and most important, protects workers working inside of one hoistway from straying into the adjacent hoistway or the area between counterweight rails, thereby preventing serious injury, and even loss of life.

PearlWeave safety netting products are lightweight, durable and easier to use than traditional wire meshes, while exceeding their strength characteristics. Our chemical- and mildew-resistant products, are also flame retardant, and if burned, will not emit toxins into the hoistway.

Available in 48in. x 150ft. rolls

Hoistway Guard Systems

Hoistway guard systems are used to prevent round and flat traveling cable from striking obstructions in the hoistway and from crossing over into adjoining hoistways. Their use may extend the life span and prevent possible interference of your installed elevator cables.

Our guarding systems are available in two sizes, each containing 100ft x 1.5ft of 1/2"x 1/2" wire mesh, installation hardware, and detailed installation instructions.

Part Number	Description
HGS	Hardware, mesh and base mounting kit
HGS-EXT	Hardware, mesh and extension mounting kit (used to extend HGS an additional 100ft)

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Pedestrian Barricades

Pedestrian Barricade

The Pedestrian Barricade consists of 3 panels of 36" x 39" and is easily assembled with snap on hinges. It easily protects all pedestrians from open holes or hazardous work. The Pedestrian Barricade forms a complete barrier to protect against unnecessary pedestrian accidents. The continuous bottom "tapping" rail helps blind pedestrians stay away from work area. This barrier is considered a Type I and Type II, meeting all OSHA requirements. One vertical "CAUTION!" sign included.

NOTE: Company logo may be added at additional cost.

Part Number **AG3-ESK**



Yellow Plywood Barricade

This barricade is constructed of four 1/4" plywood panels. Painted yellow and black with "Do Not Enter" symbol silk-screened on each panel. Overall dimensions are 42"h x 108"l.

Part Number **15-305**



Fabric E-Z Hook Barricade

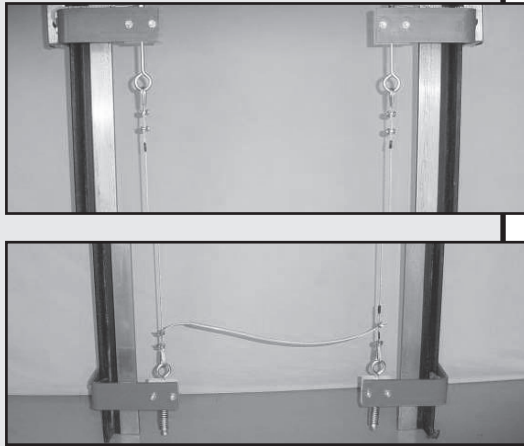
This barricade is constructed of metal tubular framing and yellow vinyl/cloth barrier. "Do Not Enter" symbol silk-screened on each of four panels. Plastic plate at bottom serves as a toe guard and multiple units can be attached to one another for larger areas. Overall dimensions are 42"h x 140"l. Plastic plate at bottom serves to increase stability and as a toe guard. Overall dimensions are 39"h x 115"l.

Part Number **15-306**



Questions? Answers at...

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Counterweight Derailment System Seismic Switch

Load Tech Devices Counterweight Derailment System

System designed for quick, easy installation.

- Dual string system provides complete protection
- Factory assembled to reduce field installation time
- Heavy-duty construction suitable for high-rise as well as low-rise installation

Part Number **CDS01**

Seismic Switch

The introduction of new solid-state accelerometers has made possible the development of a more robust and stable Seismic Switch for protection and control of elevators during earthquakes.

- Can be installed in minutes inside the elevator controller or enclosure
- Small footprint
- Dry contact output, controller area network port and RS232 port
- Designed specifically to conform to A.S.M.E. A17.1
- Runs up to 16 hours on optional backup battery
- Backup battery connector included
- Optional backup battery can be obtained at any battery supply store (any 12-volt, sealed lead acid, 1.2-1.4 Amp/Hour battery).

- Fail-Safe

Part Number **SS04**

Questions? Answers at...

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SCAVENGER PUMPS

In This Section

Cylinder Head	
Scavenger Pump	29.2
Heavy-Duty Scavenger Pump . .	29.2
Scavenger Pump	
Replacement Parts	29.2



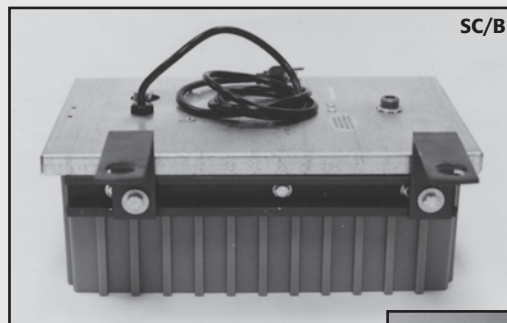
Questions? Answers at...

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or 1-866-233-3538 • Fax 1-562-427-8429***

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or 1-860-256-2211 • Fax 1-860-290-8970***

***or visit us online at
www.cedlevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!***

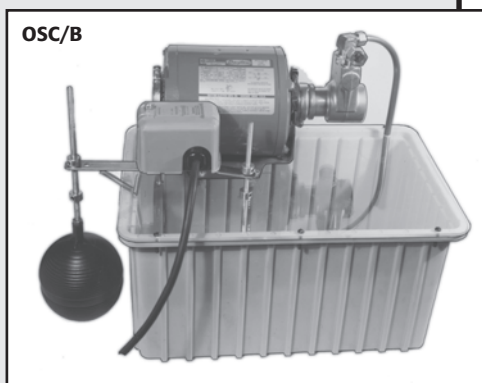
Full line catalog available on request



SC/B



SC/B-FR



OSC/B



PO2SP008

Scavenger Pumps & Parts

Oil Transfer Pump

Cylinder Head Scavenger Pump

Constructed of ribbed reinforced polyethylene with 16-gauge welded steel cover and submersible pump. 2-gallon capacity. Pumps 10 to 12 ft. Tank: 15"w x 10"d x 6"h.

Part Number	Description
SC/B	Reinforced external mounting brackets to mount off cylinder headbolts.
SC/B2	Without mounting brackets
SC/B-FR	Flood Control Switch shuts off pump if pit begins to fill with water.

Heavy-Duty Scavenger Pump

Ribbed reinforced polyethylene container will not corrode. The clear, 1/4" lexan top allows for full visibility of the inner workings of the unit. Tank: 15"w x 10"d x 8"h

- UL approved motor and cord
- 100 ft. head
- 100 ft. plastic tubing with fittings
- Includes flood control reset
- 71 mesh filter (200 micron)
- 1/4 HP 115VAC motor * Also 1/2 HP Available

Part Number **OSC/B**

Scavenger Pump Replacement Parts

Part Number	Description
15SP004	Stainless steel float & rod
PO2SP008	1/2" plastic tubing in 100 ft. lengths (included with OSC/B pump).
21SP004	Motor, 1/4 HP phase, 115 VAC
21SP011	Motor, 1/2 HP, 115 VAC

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SIGNS, BRAILLE TAGS & CERTIFICATE FRAMES



Questions? Answers at...

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cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

30

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Metal Stamped Signs

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Certificate Frames.	30.17



Cab Plates — Die Cast

CC2

(ANSI Compliant)

Size

1.250" square
0.085" material thickness (0.125" with FLC5)
0.125" corner radius
0.625" character height

Designation Color: Natural, painted

Background Color: Painted

Mounting: Front Mechanical or Back Flange
Mounting (**FLM1, FLM2**)

Finishes: See Standard Finishes

CC3

(ANSI Compliant)

Size

1.50" square
0.060" material thickness
0.125" corner radius
0.625" character height

Designation Color: Natural, Painted

Background Color: Painted

Mounting: Front Mechanical or Back Flange
Mounting (**FLM1, FLM2**)

Finishes: See Standard Finishes

NOTE: Can be fitted with shims to adapt to your panel thickness to achieve "flush" mount design.

CC5

(ANSI Compliant)

Size

1.375" round
0.085" material thickness
0.625" character height

Designation Color: Natural, Painted

Background Color: Painted

Mounting: Front Mechanical or Back Flange
Mounting (**FLM1, FLM2**)

Finishes: See Standard Finishes

NOTE: Can be fitted with shims to adapt to your panel thickness to achieve "flush" mount design.

Standard Finishes: Satin Nickel, Satin Bronze, Mirrored Stainless, Mirrored Bronze, Black & White, Nickel Painted, Goldleaf Painted, US26

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Cab Plates — Die Cast

CC6

(ANSI Compliant)

Size

1.50" round
0.060", material thickness
0.625" character height

Designation Color: Natural, painted

Background Color: Painted

Mounting: Front mechanical or back flange mounting (**FLM1** or **FLM2**)

Finishes: See Standard Finishes

NOTE: Can be fitted with shims to adapt to your panel thickness to achieve "flush" mount design. Retrofit version to fit existing 1.375" cut out.



CC7

Size

0.755" x 1.13"
0.063", 0.100" material thickness
0.125" corner radius
0.628" character height

Designation Color: Natural, painted

Background Color: Painted

Mounting: Front mechanical

Finishes: See Standard Finishes

NOTE: Can be fitted with shims to adapt to your panel thickness to achieve "flush" mount design.



CHLP

(ANSI Compliant)

Size

2.425" x 1.250"
0.0875" material thickness
0.625" character height

Designation Color: Natural, painted

Background Color: Painted

Mounting: Front mechanical

Finishes: See Standard Finishes



**Optional Mounting Flanges & Retainers
available on request**

Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

**CK1**

(ANSI Compliant)

Size

2.050" x 1.375"

0.065" material thickness

0.625" character height

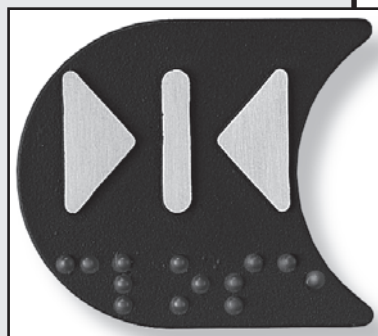
Designation Color: Natural, painted**Background Color:** Painted**Mounting:** Front mechanical**Finishes:** See Standard Finishes**CW1****Size**

2.75" x 1.50"

0.120" material thickness

Background Color: Natural, painted**Mounting:** Reference CW2**Finishes:** See Standard Finishes (uS26 not available)

NOTE: Button opening available in 1.204", 1.270", 1.375", and custom diameters. Available in custom colors to meet parking garage level requirements.

**CW2**

(ANSI Compliant)

Size

1.565" x 1.358"

0.055" material thickness

0.625" character height

Designation Color: Natural, painted**Background Color:** Painted**Mounting:** Front mechanical**Finishes:** See Standard Finishes

Standard Finishes: Satin Nickel, Satin Bronze,
Mirrored Stainless, Mirrored Bronze, Black & White,
Nickel Painted, Goldleaf Painted, US26

Questions? Answers at...

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Cab Plates — Die Cast

CIP1 & RIP1

(ANSI Compliant)

Size

1.575" x 1.063"

0.059" corner radius

0.052" material thickness

(CIP1 Die Cast Metal, RIP1 Plastic)

1.499" character height

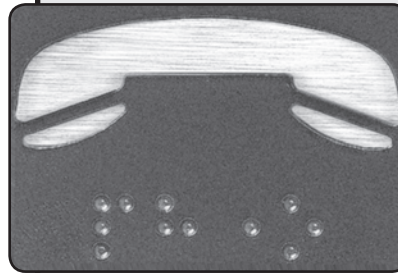
Designation Color: Natural, painted

Background Color: Painted

Mounting: Adhesive

Finishes: See Standard Finishes

(RIP1 Black & White only)



CM1

Size

3.0" x 3.0" [Use 2.50" diameter opening]

0.173" material thickness

Designation Color: Painted

Background Color: Natural

Mounting: Back Flange Mounting

Finishes: Satin Stainless, Satin Bronze,
Mirrored Stainless, Mirrored Bronze



CPI

Size

3.375" x 1.125"

Square corner radius, 0.120" thick.

0.25" raised capacity height

0.255" engraved weight height

Designation Color: Natural, painted

Background Color: Painted

Mounting: Front mechanical

Finishes: Satin Stainless, Satin Bronze, and Black

NOTE: Capacity plates are available in any duty/weight, English,
metric or both.



CST1

Size

3.50" square

0.100 material thickness

0.125" (3.2mm) corner radius

Designation Color: Natural, Painted

Background Color: Natural, Painted

Mounting: Front mechanical or back flange
mounting (FLM4)

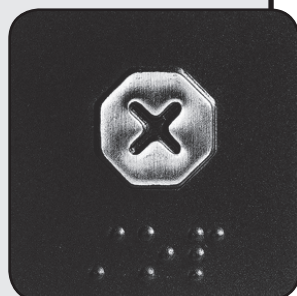
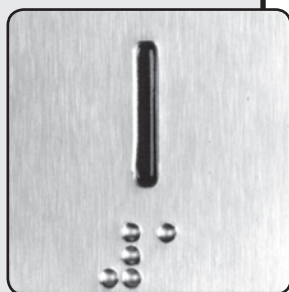
Finishes: Satin Stainless, Satin Bronze, Mirrored
Stainless, Mirrored Bronze, Blue and White



**Optional Mounting Flanges & Retainers
available on request**

Questions? Answers at...

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Cab Plates Metal Stamped, Resin

EC1R

Size

EC1R: 1.375" round; **EC15R:** 1.50" round
0.032" material thickness
0.625" character height

Designation Color: Natural, Painted

Background Color: Natural, Painted

Mounting: Adhesive or One Threaded Stud

Finishes: Satin Stainless, Satin Bronze, Mirrored
Stainless, Mirrored Bronze, Black and White

EC1 (ANSI Compliant)

Size

EC1: 1.250" square; .0625" or .125" corner radius
EC15: 1.50" square; .0625" corner radius
0.032" material thickness
0.625" character height

Designation Color: Natural, Painted

Background Color: Natural, Painted

Mounting: Adhesive or One Threaded Stud

Finishes: Satin Stainless, Satin Bronze, Mirrored
Stainless, Mirrored Bronze, Black and White

EC1125 (ANSI Compliant)

Size

1.250" square
0.032" material thickness
0.625" or 0.125" corner radius
0.625" character height

Designation Color: Natural, Painted

Background Color: Natural, Painted

Mounting: Adhesive or One Threaded Stud

Finishes: Satin Stainless, Satin Bronze, Mirrored
Stainless, Mirrored Bronze, Black and White

RCU1 (ANSI Compliant)

Size

1.358" x 1.955"
0.032" material thickness (Resin)
0.625" character height
Designation Color: White

Background Color: Black

Mounting: Two Studs, Adhesive

Finishes: White, Satin Silver, Satin Gold

**Optional Mounting Flanges & Retainers
available on request**

Questions? Answers at...

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Jamb Plates Die Cast

CJ1

Size

3.50" x 2.50"; 0.125" corner radius
0.100" material thickness (Die Cast Metal)
2.00" character height

Designation Color: Natural, Painted

Background Color: Painted

Mounting: Front Mechanical

Finishes: See Standard Finishes



CJ4 (ANSI Compliant)

Size

2.50" x 3.50"; 0.125" corner radius
0.080" material thickness (Die Cast Metal)
2.00" character height

Designation Color: Natural, painted

Background Color: Painted

Mounting: Front Mechanical or Back Flange
Mounting to your panel specifications (FLM5)

Finishes: See Standard Finishes



EJ3 (ANSI Compliant)

Size

3.00" x 3.50"; .0625" corner radius
0.032" material thickness (Metal Stamped)
2.00" character height

Designation Color: Natural, painted

Background Color: Natural, painted

Mounting: 4 Corner Holes with Drive Pins, Adhesive

Finishes: Satin Stainless, Satin Bronze, Mirrored
Stainless, Mirrored Bronze, Black and White



EJ4 (ANSI Compliant)

Size

4.00" square
0.032" material thickness (Die Cast Metal)
0.0625" corner radius
2.00" character height

Designation Color: Natural, painted

Background Color: Natural, painted

Mounting: 4 Corner Holes with Drive Pins, Adhesive,
 $\frac{6}{32}$ Weld Studs

Finishes: Satin Stainless, Satin Bronze, Mirrored
Stainless, Mirrored Bronze, Black and White



Standard Finishes: Satin Nickel, Satin Bronze,
Mirrored Stainless, Mirrored Bronze, Black & White,
Nickel Painted, Goldleaf Painted, US26

Questions? Answers at...

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PLG

EJ45**Size**

4.00" x 5.00" (This size used for 3-character combos)
0.032" material thickness (Metal Stamped)
0.0625" corner radius
2.00" character height

Designation Color: Natural, painted

Background Color: Natural, painted

Mounting: 4 Corner Holes with Drive Pins, Adhesive

Finishes: Satin Stainless, Satin Bronze, Mirrored
Stainless, Mirrored Bronze, Black and White



2

RJ4 (ANSI Compliant)**Size**

4.00" square
0.080" material thickness (Resin)
0.0625" corner radius
2.00" character height

Designation Color: White

Background Color: Black

Mounting: Adhesive

Finishes: White, Satin Silver, Satin Gold



ELEVATOR
10

SVB229 (A17.1-2000)

4.00" square plate
3.00" character height
(Elevator number designation requirement)

one per jamb, mounted adjacent to or on every
elevator entrance at the designated level per A17.1-
2000 2.29.1

Questions? Answers at...

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Specialty Signs Screen Printed

SVB12 (Phase II ANSI 1993)

SVB41 (Phase II ANSI 1996)

Size

6.90" x 4.40"

Material thickness: 0.032" metal / 0.020" Lexan

Square corner radius

Character height: 0.25" title / 0.188" text

Designation Color: Painted

Background Color:

SVB12: Natural, white **SVB41:** Black

Mounting: Adhesive

Finishes: Satin Stainless, Satin Bronze, Mirrored Stainless, Mirrored Bronze, Matte Plastic

SVB59 (Phase II ANSI 1998)

SVB79 (Phase II ANSI 2000)

Phase II Firefighter's Instructions

ANSI A17.1-2000 (Latest Code) not pictured.

Size

6.9" x 5.275"

Material thickness: 0.032" metal / 0.020" Lexan

Square corner radius

Character height: 0.25" title/0.188" text

Designation Color: Painted

Background Color:

SVB59: Natural, white **SVB79:** Black

Mounting: Adhesive

Finishes: Satin Stainless, Satin Bronze, Mirrored Stainless, Mirrored Bronze, Matte Plastic

SVB6/SVB70/SVB70R (Phase I ANSI Compliant)

Size

SVB6 4.00" x 1.45";

SVB70/SVB70R 3.375" x 3.00"

Material thickness: 0.032" metal / 0.020" Lexan

Square corner radius

Character height: 0.25"

Designation Color: Black

Background Color: Natural, white

Mounting: Adhesive

Finishes: Satin Stainless, Satin Bronze, Mirrored Stainless, Mirrored Bronze, Matte Plastic

FIREFIGHTERS' OPERATION	
To operate car	Insert fire key and turn to "ON" Press desired floor button
To cancel floor selection	Press "CALL CANCEL" button
To close door	Press and hold "DOOR CLOSE" button
To open door	Press and hold "DOOR OPEN" button
To hold car at floor	With doors open, turn key to "HOLD"
To return car to recall floor	With doors open, turn key to "OFF"

FIREFIGHTERS' OPERATION	
To operate car	Insert fire key and turn to "ON" Press desired floor button
To cancel floor selection	Press "CALL CANCEL" button
To close power-operated door	Press and hold "DOOR CLOSE" button
To open power-operated door	Press and hold "DOOR OPEN" button
To hold car at floor	With doors open, turn key to "HOLD"
To automatically send car to recall floor	With doors open, turn key to "OFF"

FIREFIGHTERS' OPERATION	
	
When flashing, exit elevator	
To operate car	Insert fire key and turn to "ON" Press desired floor button
To cancel floor selection	Press "CALL CANCEL" button
To close power-operated door	Press and hold "DOOR CLOSE" button
To open power-operated door	Press and hold "DOOR OPEN" button
To hold car at floor	With doors open, turn key to "HOLD"
To automatically send car to recall floor	With doors open, turn key to "OFF"

FIRE OPERATION	
	
When flashes, exit elevator	
To operate car	Insert fire key and turn to "ON". Press desired button.
To cancel floor selection	Press "CALL CANCEL" button.
To close power-operated door	Press and hold "DOOR CLOSE" button.
To open power-operated door	Press and hold "DOOR OPEN" button.
To hold car at floor	With doors open, turn key to "HOLD".
To automatically send car to recall floor	Turn key to "OFF".

**FIREFIGHTERS' OPERATION
TO RECALL ELEVATORS
INSERT FIRE KEY AND
TURN TO "ON"**

SVB6

**SVB70R
ALSO AVAILABLE WITH
KEY "BYPASS" (SVB70)**

**FIREFIGHTERS'
OPERATION
TO RECALL ELEVATORS
INSERT FIRE KEY
AND TURN TO "ON"
NORMAL OPERATION
KEY "RESET"
THEN KEY "OFF"**

Questions? Answers at...

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SVB80

Size

4.00" square

Material thickness: 0.032" metal / 0.020" Lexan

Square corner radius

3.00" character height

Designation Color: Blue

Background Color: Natural, white

Mounting: Adhesive

Finishes: Satin Stainless, Satin Bronze, Mirrored Stainless, Mirrored Bronze, Matte Plastic



SVB13 (ANSI Compliant, Appendix H, Appendix O)

Size

5.00" x 8.00"

Material thickness: 0.032" metal / 0.020" Lexan

Square corner radius

0.30" character height-text

6.00" character height-pictogram

Designation Color: Black text, red flame

Background Color: Natural, white

Mounting: Adhesive

Finishes: Satin Stainless, Satin Muntz, Mirrored Stainless, Mirrored Muntz, Matte Plastic

**IN CASE OF FIRE
USE STAIRWAY
FOR EXIT**



**DO NOT USE
ELEVATOR**

SVB30 (California Code)

Size

5.00" x 8.00"

Material thickness: 0.032" metal / 0.020" Lexan

Square corner radius

0.50" character height-text

4.00" character height-pictogram

Designation Color: Black text, red flame

Background Color: Natural, white

Mounting: Adhesive

Finishes: Satin Stainless, Satin Muntz, Mirrored Stainless, Mirrored Muntz, Matte Plastic

Questions? Answers at...

Specialty Signs Screen Printed

SUB229 (ANSI Compliant) (Elevator Identification for Entrance)

Size

4.00" x 4.00"

Material thickness: 0.030" metal

Mounting: Adhesive

Finishes: Black Background with White Text
or Stainless Background with Black Text



SUB229COP (Elevator Identification for COP)

Size

3.250" x 1.250"

Material thickness: 0.020" aluminum

Mounting: Adhesive

Finishes: Black background with white text
or Stainless background with black text



R380 & R580 (Meets ANSI, Appendix H, Appendix O) (Insert Only)

Size

R380: 4.110" x 3.120"

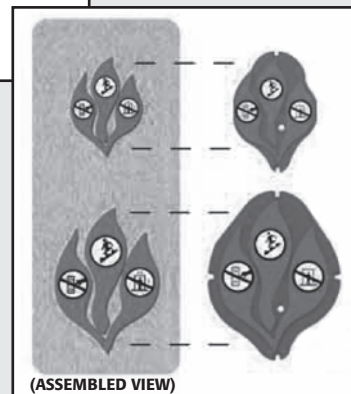
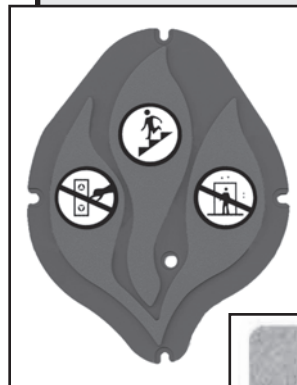
R580: 6.0" x 4.250" (Flame size)

Material thickness: Designed for 11-gauge or less
panel thickness – Resin

Designation Color: Black text, red flame

Background Color: White

Mounting: Flanged insert; laser cutout file provided
with part purchase.



Questions? Answers at...

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'In Case of Fire' Signs



4001 (6"x7") 4001-A (8"x10")
4001-B (3"x3.5")



4011 (6"x7") 4011-A (8"x10")
4011-B (3"x3.5")



4002 (6"x7")



4021 (6"x7") 4021-A (8"x10")
4021-B (3"x3.5")



4501 (6"x7") 4051-A (8"x10")
4501-B (3"x3.5")



4601 (6"x7")



4113 (6"x7")



4071 (6"x7") 4071-A (8"x10")
4071-B (3"x3.5")



C4001NS1-A (6"x9")
OPTIONAL TEXT AVAILABLE



C4001-L (6"x9")
OPTIONAL TEXT AVAILABLE



4002-D (3.5"x8.5")



4011-D (3.5"x8.5")



4001-SP (6"x7")



4011-SP (6"x7")



4002-C (8"x3.5")

Questions? Answers at...

Acrylic Escalator Safety, No Smoking & Capacity

Signs

The long-lasting anti-fading signs on the following pages are available with stainless steel, antique brass, brass and aluminum backgrounds. All come with a 3M adhesive backing.

Decals

Many of the elevator and escalator signs on the following pages are available as decals. Custom decals are also available. All decals are produced on 3mm decal material.

Data Tags

Data tags are made from 1/32" aluminum, or 1/32" enamel coated aluminum. Most data tags are custom made for individual companies. If you need a custom sign, fax us an example and we can have it recreated. All tags are available with holes or a 3M adhesive backing



ES-1



ES-12



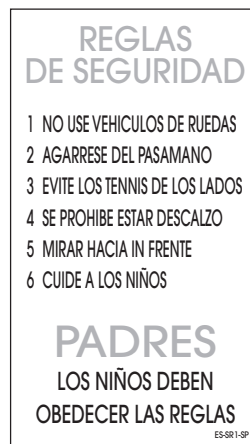
ES-12-SP



CAP-11A (4.5"x11") CAP-11 (10"x3")



ES-SR1 (4"x7")



ES-SR1-SP (4"x7")



ES-C1 (5"x9.5")



9102 (5"x7")



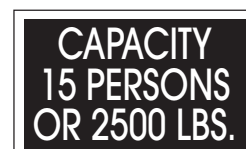
9101 (5"x7")



9103-LA (5"x8")



9301 (10x3.5")



CAP-32 (4"x2.5")

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Main Station or Phase I Signs



6001



6002



6102



6103



6201



6301



6401



6501



6601



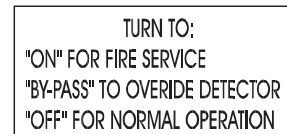
6931



6935



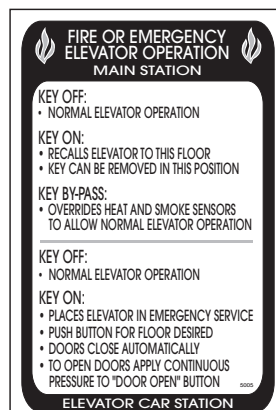
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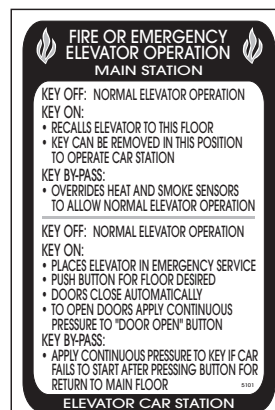
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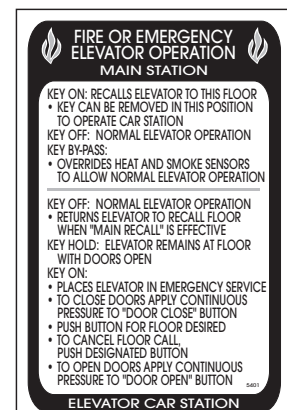
5002



5005



5101



5401

Questions? Answers at...

Car Station or Phase II Signs



7001



7202



8601



7002



8003



8602



7003



8004



8601



7004



8005



8801



7201



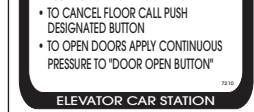
7210



8802



7311



7402

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Warning & Danger Signs

Data Tags

DANGER

**ELEVATOR
HOISTWAY**

D-51 (10"x 8")

**THIS IS NOT
A PASSENGER ELEVATOR**

NO PERSONS OTHER
THAN THE OPERATOR AND
THE FREIGHT HANDLERS
ARE PERMITTED TO RIDE
ON THE ELEVATOR

FRT-11 (10"x 8")

COMPANY NAME HERE
1-YEAR LOAD TEST

ELEVATOR# _____
RELIEF PRESSURE LBS. _____
TEST DATE _____

DT-1Y (4"x 2")

DANGER

**LOW
OVERHEAD**

D-61 (10"x 8")

CLASS A LOADING

THIS ELEVATOR
DESIGNED FOR
GENERAL FREIGHT
LOADING

FRT-61 (10"x 8")

COMPANY NAME HERE
5-YEAR LOAD TEST

ELEVATOR# _____
RELIEF PRESSURE LBS. _____
TEST DATE _____

DT-5Y (4"x 2")

DANGER

**ELECTRICAL HAZARD
AUTHORIZED
PERSONNEL ONLY**

D-71 (10"x 8")

WARNING
PARTS OF THE CONTROL PANEL
ARE NOT DE-ENERGIZED
BY THIS SWITCH

W-11 (4"x 2.25")

**IF ELEVATOR BECOMES INOPERABLE
REMAIN IN CAR UNTIL ASSISTANCE ARRIVES
DO NOT ATTEMPT TO FORCE
DOORS OR HATCH OPEN
PLEASE REMAIN CALM**

IEBI-1 (6"x 3")

**AUTHORIZED PERSONNEL ONLY
STORAGE OR INSTALLATION
OF EQUIPMENT NOT
PERTAINING TO THE ELEVATOR
IS PROHIBITED**

EEQ-11 (10"x 2.25")

SHOULD THE ELEVATOR DOORS FAIL TO OPEN
DO NOT BECOME ALARMED.
THERE IS LITTLE DANGER OF RUNNING OUT OF AIR
OR OF THIS ELEVATOR DROPPING UNCONTROLLABLY.
PLEASE USE THE BUTTON MARKED "ALARM" OR
TELEPHONE (IF FURNISHED) TO SUMMON AID.
ELEVATOR COMPANIES ARE ON CALL
24 HOURS A DAY FOR EMERGENCY SERVICE.

SEDF-1 (4"x 2.25")

**HANDICAPPED
ELEVATOR**

HE-2 (8"x 4")



STAR-B (3.5"x 3.5")

ST-1

SAFETY TEST	
ELECTRIC	☐
HYDRAULIC	☐
ANNUAL	☐
5-YEAR	☐
3-YEAR	☐
GOVERNOR TEST	☐
RELIEF VALVE TEST	☐
BUFFER TEST	☐
TEST PERFORMED	
JAN ☐	1998 ☐
FEB ☐	1999 ☐
MAR ☐	2000 ☐
APR ☐	2001 ☐
MAY ☐	2002 ☐
JUN ☐	2003 ☐
JUL ☐	2004 ☐
AUG ☐	2005 ☐
SEP ☐	2006 ☐
OCT ☐	2007 ☐
NOV ☐	2008 ☐
DEC ☐	2009 ☐
COMP. NAME	

COMPANY NAME

PERMIT NO. _____

FULL LOAD PS.I.	BY PASS PS.I.	DATE

DT (3"x 5")

COMPANY NAME HERE

CAPACITY _____ LBS. SPEED _____ FPM
WT. OF CAR _____ LBS. DATE INSTALLED _____
PLUNGER _____ O.D. IN. PLUNGER WALL _____ IN.
STATE PERMIT# _____

DT-HYD (3.75"x 1.75")

COMPANY NAME HERE

CAPACITY _____ LBS. SPEED _____ FPM
WT. OF CAR _____ LBS. DATE INSTALLED _____
NO. OF ROPES _____ TYPE _____ SIZE _____
STRENGTH _____ STATE PERMIT# _____

DT-CBL (3.75"x1.75")

Questions? Answers at...

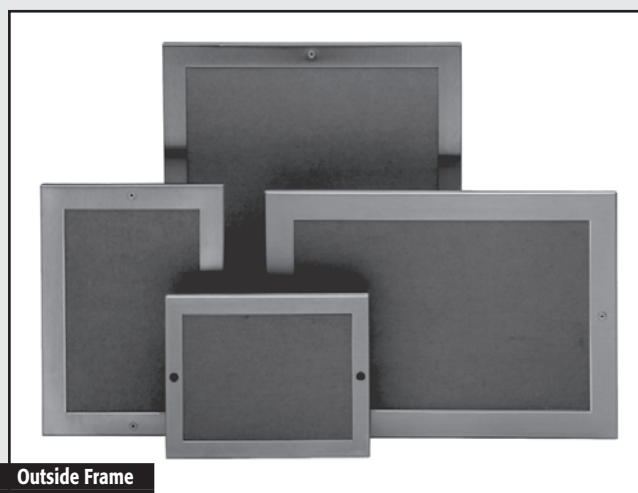
Warning & Danger Signs Data Tags

Title 8 Group II TITLE 8-II	"KEEP SWITCH CLOSED EXCEPT DURING MAINTENANCE, REPAIRS, AND INSPECTIONS" KSC	ELEVATOR HYDRAULIC OIL LINE HELDEC
Title 8 Group III TITLE 8-III	TITLE 8 GROUP IV ASME A17.1 2004 ASME IV	SHOULD THE ELEVATOR DOORS FAIL TO OPEN DO NOT BECOME ALARMED, PLEASE USE BUTTON MARKED "ALARM" OR TELEPHONE (IF FURNISHED) TO SUMMON AID. ELEVATOR COMPANIES ARE ON CALL 24 HOURS A DAY FOR EMERGENCY SERVICE. SEDf-2
FIREFIGHTER'S OPERATION TO RECALL ELEVATORS INSERT FIRE KEY AND TURN TO "ON" 6107	ASME A17.1-1996 ASME-1	
		ALTERATIONS A17.1-1996 PART XII RULE ALT RULES

Certificate Frames

Certificate Frames

- Stainless steel, bronze or mirrored stainless finish with acrylic windows
- Hidden mounting screws prevent vandalism
- Mounts vertically or horizontally
- Available with "NO SMOKING" silk screened on frames. Add **NS** to part number (short side) or **NSL** (long side)



Stainless Part Number	Bronze Part Number	Mirrored Stainless	Mirrored Bronze	Inside Window Dimensions	Outside Frame Dimensions
CF34	CF34B	CF34MS	CF34MB	3½" x 4¾"	4½" x 5¾"
CF46	CF46B	CF46MS	CF46MB	4" x 6"	5½" x 7½"
CF48	CF48B	CF48MS	CF48MB	4¼" x 8¼"	5¾" x 9¾"
CF69	CF69B	CF69MS	CF69MB	5⅝" x 8⅝"	7⅞" x 10⅞"
CF810	CF810B	CF810MS	CF810MB	7¾" x 9¾"	9¼" x 11¼"
CF8514	CF8519B	—	—	8½" x 14"	10" x 15½"

Replacement Parts

Part Number	Description
51CF001	Screws for certificate frames
51CF001W	Replacement Wrench



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Notes



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Full line catalog available upon request

TELEPHONES & CABINETS



Questions? Answers at...

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Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

In this Section

ADA Phones, Building
& Line Powered

S3 Communicator
Grill Mount, Box Style,
Flush Mount 31.2

ADA Phones, Phone Line Powered

AS-3 Series
Black Box, Flush Mount,
Sub-Mount 31.3

K-Tech Sentry,
Fortress, Commander 31.4

Telephone Cabinets,
Commercial & Residential .. 31.5

Replacement Parts
and Accessories 31.5



11-913/11-933



11-910/11-930



11-912/11-932



11-911/11-931

Part Number	Description	Dimensions	Power
11-930	Red Painted Box Style	2" x 4" x 6"	Building
11-931	#4 Stainless Steel	6½" x 10½"	Building
11-932	#4 Stainless Steel	10" x 13¼"	Building
11-933	Grill Mount		Building
11-935	#4 Muntz	6½" x 10½"	Building
11-936	#4 Muntz	10" x 13¼"	Building
11-939	#4 Stainless Steel Box	2" x 4" x 8"	Building
11-910	Red Painted Box Style	2" x 4" x 8"	Line
11-911	#4 Stainless Steel	6½" x 10½"	Line
11-912	#4 Stainless Steel	10" x 13¼"	Line
11-913	Grill Mount		Line
11-915	#4 Muntz	6½" x 10½"	Line
11-916	#4 Muntz	10" x 13¼"	Line
11-919	#4 Stainless Steel Box	2" x 4" x 8"	Line

ADA Phones Building & Line Powered

S3 Communicator Key Features

Line Sharing

Allows the sharing of a single telephone line between multiple S3 Communicators while retaining the ability to have each phone call its own number. Call into the group and isolate one phone or talk to the entire group.

Intercom/Phone combo

Allows the emergency phone and intercom to utilize the same set of phone lines. The S3 Communicator can also be configured to act primarily as an emergency telephone, but convert to an intercom to allow communication between the machine room and car.

Onboard Keypad for easy programming

Program the phone without being connected to a phone line. Once connected to a line, calls can be placed using the keypad and programming is made simple by one-touch buttons to access the programming menu.

Features	Line	Building	Key Feature
Programmable volume control	•	•	
Digital message recording with excellent clarity	•	•	
Second set of push button contacts	•	•	
Auto answering	•	•	
Programmable with a 9V battery; no need for handset or telephone line	•	•	
Resetting fuses to protect phone	•	•	
Programming options via easy to understand voice prompts	•	•	
Continuous internal maintenance functions to check battery, telephone line and phone test reminder and trigger alarm upon failure		•	•
Remote diagnostics to check speaker and microphone functions	•	•	
Shortcut program buttons available: SITE ID; PRG MENU; PH NO; VOLUME	•	•	•
Up to 3 outputs (dry contact) available	•	•	
Onboard keypad for programming and placing calls	•	•	•
Available in 1 or 2 LED versions	•	•	
Reset function for quick reset to factory defaults	•	•	
Programmable ring count	•	•	
Programmable call cancellation	•	•	
Battery backup: 4 hours minimum provided		•	
Programmable conversation time	•	•	
Line sharing up to 8 phones per telephone line		•	
Functions as ADA phone and intercom when used with our master station		•	•
Talk/End key has 2 functions:			
1. It allows the S3C to be used as a regular phone.			
2. It provides onsite verification of an active phone line.			•

Questions? Answers at...

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ADA Phones Phone Line Powered

AS-3 Series

AS-3 series phone is a micro-controller based emergency phone system that offers a wide range of features and system functions to meet your needs, and is **100% ADA compliant**.

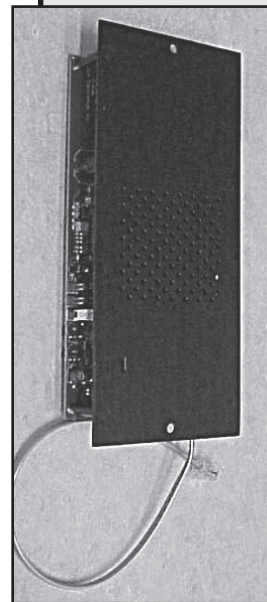
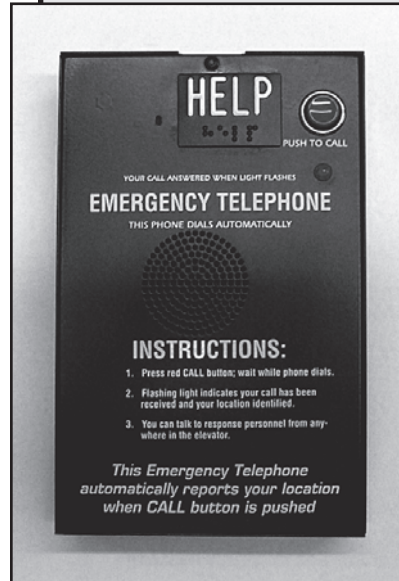
The AS-3 is attractively designed and is available as either a flush-mount or a surface-mount version. Finish selections include stainless-steel, brass or chip-resistant powder coating. A vandal-proof version is also available.

Applications

The AS-3 is used in a wide range of elevator and other applications including parking garages, university campuses, shopping malls, airports, hospitals, and many more.

Functions & Features

- Two-number dialer
- User-recordable digital message for location identification.
- Voice prompted call handling instructions.
- PBX system compatibility
- Remote and local programming allows all system functions to be reprogrammed from central and local locations, including message recording.
- Tone dialing.
- Light flashes automatically when call is received.
- Auto-Answer mode allows incoming calls.
- 5-digit access code allows security against unauthorized reprogramming
- Auto disconnect
- Prank calls easily disconnected.
- Non-volatile memory circuits allow voice message, telephone number, and programmed information to be retained without any batteries or power for up to 10 years. That means no batteries to replace and no AC power needed!



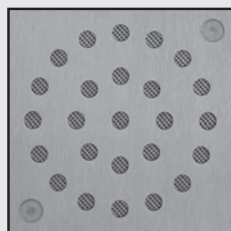
Part Number	Description	Dimensions
AS3BB	Black Box Phone, red push button, integrated braille. Stand alone unit for surface or phone cabinet mount.	5½"w x 8⅛"h x 1¾"d
FLUSHSSV	Flush Mount with Vandal Button Stainless steel plate, hands-free operation, integrated braille.	9"w x 12"h
AS3SM	Sub-Mount Phone (2-stud), for mounting inside the car operating panel where a 2-stud installation is required.	3¾"w x 8"h x 1⅜"d

Questions? Answers at...

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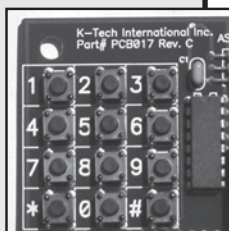
ADA & NEW ELEVATOR CODE
COMPLIANT PHONES



PROTECTIVE
SPEAKER SCREEN



A17.1a-2002 ID
LABEL WITH BRAILLE



BUILT-IN
PROGRAMMING
KEYPAD

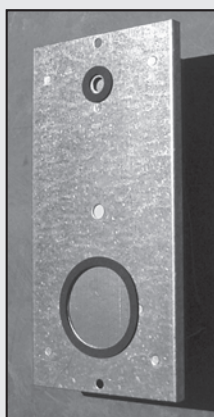


SENTRY, BOX OR
SURFACE MOUNT PHONE



FORTRESS,
FLUSH MOUNT PHONE

COMMANDER,
COP/GRILLE
MOUNT PHONE



ADA Phones Phone Line Powered

K-Phone ET401

Quick and easy installation

Two-wire hookup

Phone line powered

Features:

- Five-number automatic dialer
- Two voice announcement messages
- Call back capability
- Voice prompted programming steps
- Built-in keypad for on-site programming
- Remote programmable from any touch-tone phone
- Non-volatile memory
- Automatic shut-off
- Full ADA and A17 elevator code compliant
- FCC, IC and ETL approval

Specifications:

Wiring:	22 AWG shielded twisted pair
Phone line:	Analog, 24-48 VDC line voltage (30mA min.)
Power:	Telephone line

Products are subject to change without prior notice.

Sentry, Box or Surface Mount

Fits most telephone boxes

Dimensions: 9½"h x 4¾"w x 2"d

Part#	Finish
ET401A	NEW brushed aluminum

Fortress, Flush Mount

Retrofit or replace phone box door

Dimensions: Faceplate: 12½"h x 10"w

Back box: 9⅝"h x 6½"w x 2½"d

Part#	Finish
ET1401A	Stainless

Custom sizes and finishes available.

Commander, COP/Fixture Grille Mount

Dimensions: 9½"h x 4¾"w x 1¾"d
(mount horizontally or vertically)

Part#	Configuration
ET401A-OEM-CM	Center Microphone

Custom sizes and configurations available.

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Cabinets & Accessories

Flush Mount Phone Cabinet

This flush mount phone cabinet is designed to work with our box style phone. Easy to grasp handle with braille and phone symbol included. Box is 7⁵/₈" x 10³/₄" x 3¹/₂". Face Plate 8⁷/₁₆" x 12¹/₂". Available in brushed Muntz or Stainless Steel.

Part Number	Finish
11-595	Stainless
11-596	Muntz

Commercial Telephone Cabinets

Three Fineline styles available. All have stainless steel #4 finish covers, durable black enamel finish boxes, mounting brackets, and commercial magnetic catches which assure secure door closing. ADA compliant handle included. Right or left handle installation. On handle, "PHONE," raised, black letters.

Part Number	Cover Type	Door Size (W x H)	Cover Size (W x H x D)	Box Size (W x H x D)
TB950**	Formed	5 ⁷ / ₈ " x 9 ⁵ / ₈ "	9 ¹ / ₂ " x 14" x 3 ⁷ / ₈ "	7 ¹ / ₂ " x 12" x 3 ¹ / ₂ "
TB875*	1/8" Flat	6" x 9 ³ / ₄ "	8 ³ / ₄ " x 14"	7 ¹ / ₂ " x 11 ¹ / ₂ " x 3 ¹ / ₂ "
TB875/3*	1/8" Flat	6" x 9 ³ / ₄ "	8 ³ / ₄ " x 14"	7 ¹ / ₂ " x 11 ¹ / ₂ " x 3"
TB975	1/8" Flat	6" x 9 ³ / ₄ "	9 ³ / ₄ " x 14"	7 ¹ / ₂ " x 11 ¹ / ₂ " x 3 ¹ / ₂ "
TB975/3	1/8" Flat	6" x 9 ³ / ₄ "	9 ³ / ₄ " x 14"	7 ¹ / ₂ " x 11 ¹ / ₂ " x 3"

* Available in a #4 bronze finish, add "B," i.e. **TB875B**

** Available with key lock, Model **TB950L**

Residential Telephone Cabinets

Designed for residential and restricted use areas. Swing doors with holding hinge.

Part Number	Finish	Cover Type	Cover Size (W x H)	Box Size (W x H x D)
TB415	Stainless	.105 Flat	4 ¹ / ₂ " x 15"	3 ¹ / ₂ " x 13 ¹ / ₂ " x 3 ¹ / ₂ "
TB415B	Bronze	.125 Flat	4 ¹ / ₂ " x 15"	3 ¹ / ₂ " x 13 ¹ / ₂ " x 3 ¹ / ₂ "

Phone Cabinet Replacement Parts

Part Number	Description
M01SP004	Magnetic Catch
15PB002	Plastic Phone Box Handle, with screws, back plate, "PHONE" in raised, black letters
H02PB001	Plastic Phone Box Handle "PHONE" in raised, black letters

ADA Phone Handle Adapter Plate

Part Number	Description
PHAS	Stainless
PHAB	Black
PHAR	Bronze

Phone Accessories

Part Number	Description
P06PE010	25' Telephone Cord
P06PE011	T-adapter
P06PE012	In-line phone adapter
SBJ325-PHONE	Adhesive braille plate with phone symbol
SBJ325-WORD	Adhesive braille plate with word "PHONE"



11-595



TB950



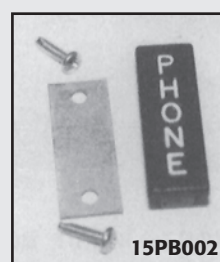
TB415



TB875/975



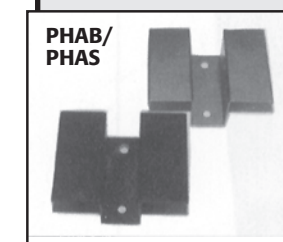
H02PB001



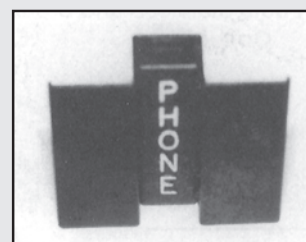
15PB002



M01SP004



PHAB/
PHAS



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Full line catalog available upon request

TEST & MEASURING EQUIPMENT



Questions? Answers at...

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cross reference data base,
product specifications
with pictures and much more!

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32

In This Section

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Blue Blade Selector Tapes 32.6



Digital Multimeters

Fluke 87V and 83V Industrial Multimeters

Fluke 87V and 83V multimeters have measurement functions, troubleshooting features, resolution and accuracy to solve more problems on motor drives, in-plant automation, power distribution and electro-mechanical equipment.

Features

- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and electrically noisy equipment (87V).
- Large digit display with bright two-level backlight makes the 87V significantly easier to read.
- Measure 20A for up to 30 sec, 10A continuously.
- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks (TPAK).
- Expanded capacitance range to 10,000μF.
- Built-in thermometer (87V).

Electrical Safety

All inputs are protected to CAT III 1000 V and CAT IV 600 V. They can withstand impulses in excess of 8,000V to help protect you from arc blast resulting from surges and spikes.

Features	Part Number:	87V	83V
True-rms AC voltage and current for accurate measurements on non-linear signals		•	
Selectable filter for accurate voltage and frequency measurements on motor drives		•	
0.05% DC accuracy		•	
4½ digit mode for precise measurements		•	
Built-in thermometer lets you carry one less tool		•	
Large display digits and two-level bright white backlight for increase visibility		•	•
10,000μF capacitance range for components and motor caps		•	•
Peak capture to record transients as fast as 250μs		•	•
Measure up to 1000V AC and DC; up to 10A, 20A for up to 30 seconds		•	•
Auto and manual ranging for maximum flexibility		•	•
Analog bargraph		•	•
Frequency to 200kHz and % duty cycle		•	•
Min/Max and average recording to capture variations automatically		•	•
Relative mode to remove test lead resistance from low ohms measurements		•	•
Access door for fast battery changes without breaking the calibration seal		•	•
Limited lifetime warranty		•	•

Functions	Range and Resolution	Basic Accuracy	
DC volts	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	0.05%	0.1%
AC volts	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	0.7% (true-rms)	0.5%
DC current	600.0μA, 6000μA, 600.0mA, 6.000A, 10.00A	0.2%	0.4%
AC current	600.0μA, 6000μA, 600.0mA, 6.000A, 10.00A	1.0% (true-rms)	1.2%
Temperature (excl. probe)	-200°C to 1090°C (-328°F to 1994°F)	1.0%	
80BK Temperature Probe	-40°C to 260°C (-40°F to 500°F)	2.2° or 2%	
Resistance	600.0Ω, 6.000kΩ, 60.00kΩ, 600.0kΩ, 6.000MΩ, 50.00MΩ	0.2%	0.4%
Capacitance	10.00nF, 100.0nF, 1.000μF, 10.00μF, 100.0μF, 9.999μF	1.0%	1.0%
Frequency	199.99Hz, 1.9999kHz, 19.999kHz, 199.99kHz	0.005%	0.005%

Battery life: 400 hours typical with backlight off.
Size (LxWxD): 201mm x 98mm x 52mm (7.9in x 3.8in x 2in).
Weight: 355g (22oz.).

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Digital Multimeters & Clamp Meter

Fluke 77 IV Digital Multimeter

The 77 IV Digital Multimeter has the features needed to repair most electrical and electronic problems. This meter is simple to use and has significant improvements over Fluke's original 70 Series with more measurement functions, conformance to the latest safety standards, and a much larger display that's easier to view.

Features

- Large display
- Backlight for work in dim areas.
- Min/Max to record signal fluctuations.
- Free your hands with the optional TPAK magnetic hanger.
- Auto and manual ranging.

Measures

- Wide 1000V measurement range.
- Average responding AC measurements.
- 0.3% accuracy.
- Frequency and capacitance.
- Resistance and continuity.



Functions	Range	Best Accuracy	Best Resolution
DC volts	600.0mV to 1000V	$\pm (0.3\% + 1)$	0.1mV
AC volts	6.000V to 1000V	$\pm (2.0\% + 2)$	1.0mV
DC current	60.00mA to 10A	$\pm (1.5\% + 2)$	0.01mA
AC current	60.00mA to 10A	$\pm (2.5\% + 2)$	0.01mA
Resistance	600.0 Ω to 50M Ω	$\pm (0.5\% + 1)$	0.4%
Capacitance	1nF to 9,999 μ F	$\pm (1.2\% + 2)$	1nF
Frequency	99.99Hz to 99.99kHz	$\pm (0.1\% + 1)$	0.01Hz

Fluke 336 Clamp Meter

- Inrush current feature
- Small body and jaws fit perfectly in your hand and into tight places.
- Controls positioned for one hand operation.
- Accurate low current measurements.
- Backlight; auto shut-off; display hold.
- Safety rating: IEC 1010-2-031, CAT III 600V
- Three-year warranty

(@23°C $\pm$ 5°C RH 0 to 90%)			
	Range	Accuracy	AC Response
DC volts	to 600.0V	1% + 5 counts	
AC volts	to 600.0V	1% + 5 counts (20 to 100Hz)	True-rms
DC current	0 to 600.0A	2% + 3 counts	
AC current	to 600.0V	2% + 3 counts (10 to 100Hz)	True-rms
Ohms	600.0 Ω /6000 Ω	1.5% + 5 counts	

Inrush: 100mS

Continuity: $\leq 30\Omega$

Weight: 0.31kg (11oz).

Max wire dia: 3cm (1.2in).

Size: (LxWxD): 201mm x 7.9cm x 4cm (9.9in x 3.1in x 1.6in).



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Voltage, Continuity & Current Tester

Fluke T5 Electrical Tester

The Fluke T5 Electrical Tester lets you check voltage, continuity and current with one compact tool. With the T5, all you have to do is select volts, ohms, or current and the tester does the rest. Tough test leads stow neatly in the back of the tester, making it easy to tote the T5 in your tool pouch. The optional H5 Holster keeps the test probes and leads ready to test, and lets you clip the T5 onto your belt. OpenJaw™ current lets you check current up to 100A—without breaking the circuit.

- Automatically measures volts AC and volts DC with precise digital resolution
- Displays resistance to 600V
- Easy and accurate OpenJaw™ current measurement
- Continuity beeper
- Compact design with neat probe storage
- Rugged enough to withstand a 10-foot (3m) drop
- Detachable Slim-Reach™ probe tips are customized for national electrical standards
- Test leads accept Fluke accessory test clips
- Available in 600V
- Can stay connected much longer than solenoid-type tester
- Auto off mode to conserve battery life

Part Number	Description
T5-600	600V
H5	Custom Holster
AC285V	Large Jaw Alligator Clips

Specifications

Battery

Type: Two AA zinc chloride

Life: 200-hour zinc chloride, 400-hour alkaline; low battery indicator

Test leads

Type: Heavy duty, flexible leads rated for 600V use. Field replaceable leads terminate in male shrouded banana plugs

Probes: One red, one black. Detachable Slim-Reach™ probe tips in one of two tip styles: TP1 flat blade (US style) or TP4 4mm round (European style)

Continuity beeper

Threshold: On at <25Ω, off at >400Ω

Volts indicator LED

Threshold: Guaranteed on by 30V AC

Environmental

Operating temperature: -10°C to 50°C

Storage temperature: -30°C to 60°C

Temperature coefficient:

0.1 x (specified accuracy)/degree C (<18°C or >28°C)

Relative humidity:

0% to 95% (5°C to 30°C)
0% to 75% (30°C to 40°C)
0% to 45% (40°C to 50°C)

Operating altitude: 2000 meters max
Dust and water resistant

Mechanical

Size: (H x W x L) 30.5 x 51 x 203 (1.2" x 2.0" x 8.0") approximate

Weight: 0.3 kg (10oz) approximate

Current sensor opening: 12.9mm (.508")

Safety

Maximum operating voltage:

T5-600: 600V AC/DC, Overvoltage Category III

Agency approvals (pending):
UL, CSA, and VDE

Manufacturer's certification: CE Mark

Warranty: General: 2 years;
Calibration cycle: 1 year

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Tachometers & Pressure Gauges

LED Digital Contact Tachometer

A very versatile, very accurate LED digital contact tachometer, capable of reading from 0.1 to 25,000 revolutions, feet, meters, yards and inches, all per minute, second, or hour (including miles per hour). It has a seven reading memory and overspeed protection.

Part Number

DT 107A	Included accessories: 2 cones, 1 inverted cone, 2" wheel, 3½" extension wheel
12-251	Replacement wheel 6" circumference

Hand Tachometers

Part Number DHT

- Shock resistant case
- Tolerance $\pm 5\%$ of extreme scale value
- RPM 16–20,000, FPM 5–6,000

Tachometer Replacement Wheel

Part Number DHTW

Door Pressure Gauges

Used to set proper door closing pressure, and to check belt tensions, as on hydraulic elevator pumps or door operator drives. It is also useful in checking car balance.

Part Number	Capacity
10-700	0-35 lbs.

Pressure Gauge

This 2½-inch liquid-filled pressure gauge works great for checking oil pressure on hydraulic elevators. It has a stainless steel case with a polycarbonate window and is filled with glycerine. This gauge dampens pulse and vibration to give readings accurately to 3%. Quick connect couplings are available upon request. Optional 2-foot pressure line.

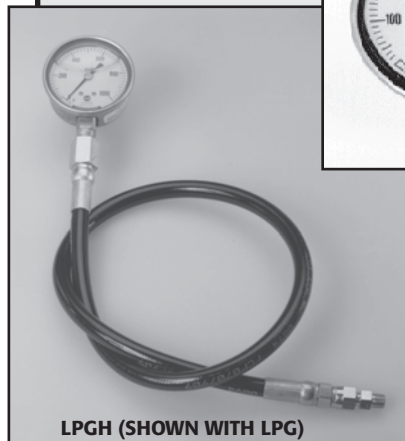
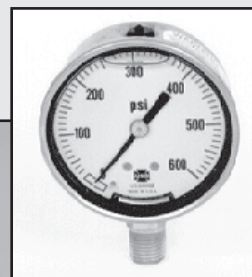
Part Number	Description
10-490	2½", 0-600
10-491	2½", 0-1,000
10-495	2-foot pressure line

Liquid Pressure Gauges

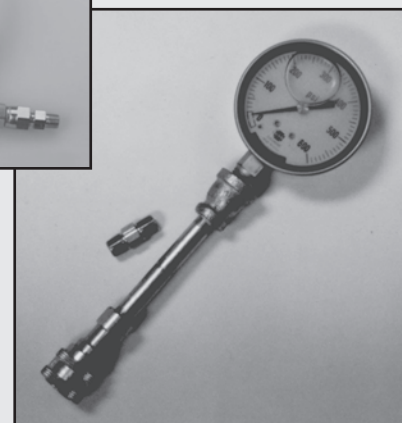
For setting up relief valve settings on hydraulic valves.

Part Number	Description
LPG	Maximum 600 P.S.I.
LPG-1	Maximum 1000 P.S.I.
LPGH	36" flexible hose with fittings, 2500 P.S.I.

- Replacement measuring wheel

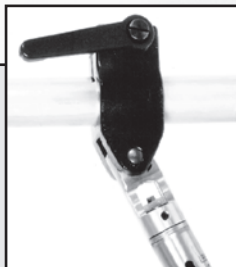
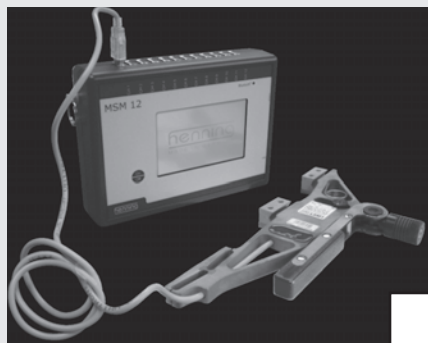


LPGH (SHOWN WITH LPG)



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Blue Blade Selector Tapes

Part Number	Size of Tape	Perforation Style
OTIS-1000	.015 x 1.000	Otis

Gauges, widths, and perforations can be tailored to your specifications. Tapes are available in blue tempered and stainless steel.



Rope Tension Gauge, Test Weight Cart, Lead Wire & Selector Tapes

Rope Tension Gauge

Easy to assemble, easy to use and accurate. Unequal rope tension adds wear and tear and shortens rope life. The rope tension gauge measures relative tension in ropes allowing you to adjust for equal tension. Kit includes: 1 chrome hook, 1 spreader with clamp, 1 chrome tube and 1 spring balance with hook and clamp.

Part Number **10-650**

Mobile Rope-Tension Measuring System

Patented measuring principle allows you to measure and set the optimum tension of each rope, quickly and easily (integrated software-wizard). Works with different rope types and diameters.

Part Number	Description
EPW-455100	Includes control and 4 rope load sensors
EPW-455600	Additional LSM1 load sensor

Test Weight Carts

Total weight of each unit is 500 lbs., consisting of a cart weighing 100 lbs., and 8 weights weighing 50 lbs. each. The wheels on the unit are 8" diameter rubber tires with roller bearings. Unit comes with a locking bar, padlock and 2 keys to prevent theft of the weights. Approximate dimensions: 8" deep x 26" wide x 42" high. Inside box dimensions: 7.25" deep x 20" wide x 18" high. Standard red primer, custom colors available.

Part Number	Description
10-900	500lbs., 8" wheels with weights
10-901	100lbs., weight cart only, 8" wheels
10-907	8" replacement wheel, weight 6lbs.

Lead Wire Seal Press & Lead Sealing Wire

Recalibrating governors? We have the lead and wire seals, along with the sealing press to lock-in and hold adjustments. The wire seals are 2 strand, 23 gauge, galvanized wire, 8" long with $\frac{3}{8}$ " diameter, 2 hole, lead seal. Other combinations of lead seals and wires are available.

The sealing pliers are made with special leverage jaws for added sealing force. This is applied through hardened cams for longer life. The $\frac{1}{2}$ " diameter, removable sealing dies can be provided with initials or numerals at a minimal cost.

Part Number	Description
13-900	lead wire seal press
13-901	100 count 8" lead sealing wire

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TOOLS



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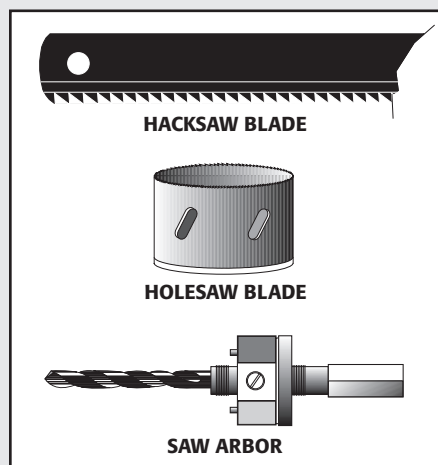
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cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

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HACKSAW BLADE

HOLESAW BLADE

SAW ARBOR

Saw Blades, Arbors Hole Saw Kits

Saw Blades & Arbors

Part Number	Size	Type	Standard Packaging
35272	12 in. x 24 teeth/in.	Hacksaw Blade	10
35273	12 in. x 32 teeth/in.	Hacksaw Blade	10
36091	1/4" hole	Saw Arbor	1
36092	3/8" hole	Saw Arbor	1
36072	44 7/8 x 1/2 x .020, 18 teeth/in.	Band Saw Blade	3

Reciprocating Saw Blades

Part Number	Size (Inches) L/W/TH	TPI	Material	Blade Bock	Qty.	Application (Reciprocating Blade)
36043	6 x 3/4 x .035	18	Bi-metal	Straight	5	Long-Life blade for cutting structural steel, pipe, conduit, stainless steel, sheet metal (1/16-3/16" thick)
36044	8 x 3/4 x .035	18	Bi-metal	Straight	5	Long-Life blade for cutting structural steel, pipe, conduit, stainless steel, sheet metal (1/16-3/16" thick)
36055	4 x 3/4 x .035	18	Bi-metal	Straight	5	Structural steel, pipe, conduit, stainless steel: (1/16-3/16" thick) non-ferrous metal: (1/16-5/16" thick)
36056	6 x 3/4 x .035		Progressive	Bimetal	5	Long-life progressive blade for all metal, non-ferrous metal, sheet metal, pipe and other metal materials
36057	6 x 3/4 x .035	18	Bi-metal	Straight	5	Structural steel, pipe, conduit, stainless steel: (1/16-3/16" thick) non-ferrous metal: (1/16-5/16" thick)
36058	6 x 3/4 x .035	24	Bi-metal	Straight	5	All metal less than 1/8" thick: Tubing conduit, trim
36065	6 x 3/4 x .050	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling
36066	9 x 3/4 x .050	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling



Hole Saw Kit

- 8-piece kit includes hole saws and arbors for electrical sizes for pipe and conduit through 2 in.
- Durable plastic carrying case
- Includes arbors 35393 and 35394.

Hole Saws & Kits

Part Number	Size	Type	Standard Packaging*
35400	7/8, 1 1/8, 1 3/8, 1 3/4, 2, 2 1/2"	Hole Saw Kit	1
35345	7/8"	Hole saw	1
35347	1"	Hole saw	1
35349	1 1/8"	Hole saw	1
35354	1 3/8"	Hole saw	1
35359	1 3/4"	Hole saw	1
35362	2"	Hole saw	1
35367	2 3/8"	Hole saw	1
35368	2 1/2"	Hole saw	1
35373	3"	Hole saw	1
35375	3 1/4"	Hole saw	1
35377	3 1/2"	Hole saw	1
35378	3 5/8"	Hole saw	1
35382	4 1/8"	Hole saw	1
35385	4 1/2"	Hole saw	1

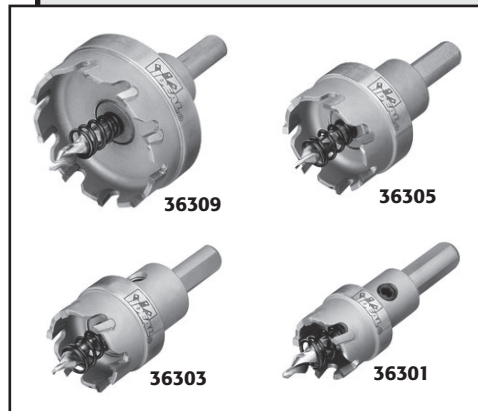
Questions? Answers at...

Carbide-Tipped Hole Cutters & Kits

TKO™ Carbide-Tipped Hole Cutters

The most efficient and clean cutter replacement for traditional knockouts, by making smooth holes in a fraction of the time at a fraction of the cost. Specifically designed to cut sheet metal, TKO cutters will even cut stainless steel with fine grained, carbide tips. The innovative design includes the exclusive SmoothStart™ replaceable pilot drill, which guides the cutter to the surface, avoiding cutter damage and providing smoother holes. An integral overdrill flange prevents cutter penetration beyond the sheet metal. When it comes to quality, performance and durability, IDEAL is the professional's choice for carbide-tipped hole cutters.

Part Number	Hole Size	Conduit & Pipe
36301	7/8"	1/2"
36302	1"	—
36303	1 1/8"	3/4"
36304	1 1/4"	—
36305	1 3/8"	1"
36306	1 7/16"	—
36307	1 1/2"	—
36308	1 3/4"	1 1/4"
36309	2"	1 1/2"
36310	2 1/2"	—



SmoothStart™ Replacement Pilot Drill

Part Number: **36312**

Guides cutter to surface, providing smoother holes and avoiding cutter damage.



Carbide Hole Cutter Kits

Part Number	Description
36311	4-Piece, includes 7/8", 1 1/8" & 1 3/8" bits SmoothStart™ replacement tip and carrying case
36314	6-Piece, includes 1/2", 3/4", 1", 1 1/4", 1 1/2" & 2" bits, and carrying case



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COBALT DRILL BITS



Drill Bits & Step Drill Bits

Drill Bits

Part Number	Size	Type	Standard Packaging*
DRILL1/8	1/8"	Cobalt	1
DRILL1/4	1/4"	Cobalt	1
DRILL1/2	1/2"	Cobalt	1
DRILL10	#10	Cobalt	1
DRILL21	#21	Cobalt	1
DRILL27/64	27/64"	Cobalt	1
DRILL29	#29	Cobalt	1
DRILL3/8	3/8"	Cobalt	1
DRILL5/16	5/16"	Cobalt	1
DRILL5/32	5/32"	Cobalt	1
DRILL6	#6	Cobalt	1
DRILL7	#7	Cobalt	1
DRILL7/10	7/10"	Cobalt	1
DRILL7/32	7/32"	Cobalt	1
DRILL8	#8	Cobalt	1
DRILL9/64	9/64"	Cobalt	1
DRILLF	#F	Cobalt	1

Step Drill Bits

Part Number	Drill Diam. (Inches)	Number of Hole Sizes	Step Increments (Inches)	Step Thickness (Inches)	Shank Dia. (Inches)
35511	1/8-1/2	13	1/32	1/8	1/4
35512	1/4-3/4	9	1/16	1/8	3/8
35513	1/4-7/8	11	1/16	1/16	3/8
35514*	1/2-1	8	1/16	1/8	3/8
35515	1/4-1 1/8	16	1/16	1/16	3/8
35516	3/16-1/2	6	1/16	3/8	1/4
35517	1/4-1 3/8	10	1/32	1/16-1/4	3/8

All shanks are 1 in. length.

*Requires pilot holes.

Electrician's Step Bit Kit

Part Number **35-520**

- Durable blow-molded case
- Kit includes four step bits: (1/8-1/2, 1/4-7/8, 1/4-1 1/8, 1/4-1 3/8) —a solution for every electrical hole size 1/8-1 3/8 in.

Questions? Answers at...

Drill/Tap Bits Hand Taps

Drill/Tap Bits

- Complete hole drilling, tapping and deburring/countersinking in one operation with power drill saves labor and time.
- Back tapered beyond tap to prevent thread damage from over-drilling.
- Deburr/countersink also provided on bit beyond back taper.
- Made from hardened high-speed steel vs. carbon steel for longer life.
- High quality hex shank to ensure strong connection to drill chuck.
- Designed to tap up to 10-gauge metal.
- Quick change adaptor included in both metric and standard kits.

Part Number	Description
DTAPKITM	M3-M10 6-Piece Drill/Tap Set
DTAPKIT	6-32 to 1/4-20 6-piece Drill/Tap Set

Part Number	Description	DTAPkit	DTAPkitM
DTAP6-32	6-32NC Drill/Tap Bit	•	
DTAP8-32	8-32NC Drill/Tap Bit	•	
DTAP10-24	10-24NC Drill/Tap Bit	•	
DTAP10-32	10-32NF Drill/Tap Bit	•	
DTAP12-24	12-24NC Drill/Tap Bit	•	
DTAP1/4-20	1/4-20NC Drill/Tap Bit	•	
DTAP5/16-18	5/16-18NC Drill/Tap Bit		
DTAP3/8-16	3/8-16NC Drill/Tap Bit		
DTAPM3C	M3 x .50 Drill/Tap Bit		•
DTAPM4C	M4 x .70 Drill/Tap Bit		•
DTAPM5C	M5 x .80 Drill/Tap Bit		•
DTAPM6C	M6 x 1.00 Drill/Tap Bit		•
DTAPM8C	M8 x 1.25 Drill/Tap Bit		•
DTAPM10C	M10 x 1.50 Drill/Tap Bit		•

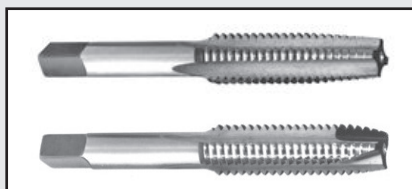
Specifications:

Material thickness	Up to 10 gauge
Material type	Mild steel, copper, brass, aluminum
Shank	1/4" quick change hex
Drill material	High-speed steel
Drill point	Split point with web thinning

Hand Taps

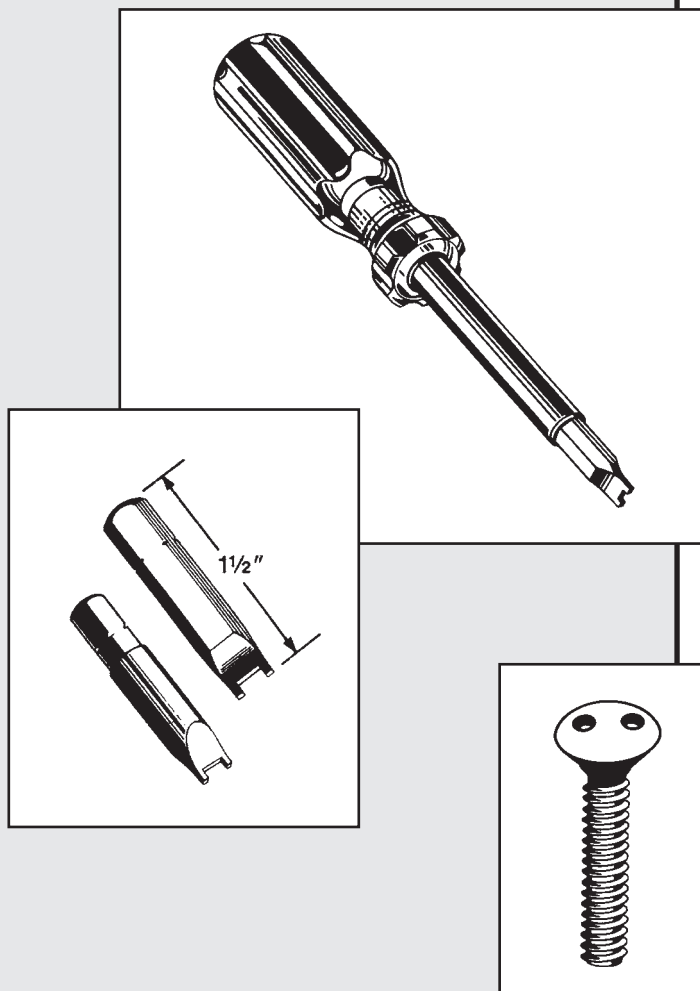
- **Taper Style:** Starts the thread square with workpiece.
- **Bottoming Style:** Generates the thread to the bottom.

Part Number	Size	Tap Style
BTAP1/4	1/4"	Bottoming
BTAP10/32	10/32"	Bottoming
BTAP5/16	5/16"	Bottoming
BTAP6/32	6/32"	Bottoming
BTAP8/32	8/32"	Bottoming
TTAP1/4	1/4"	Taper
TTAP1/2	1/2"	Taper
TTAP10/32	10/32"	Taper
TTAP3/8	3/8"	Taper
TTAP5/16	5/16"	Taper
TTAP6/32	6/32"	Taper
TTAP8/32	8/32"	Taper



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Snake Eye Driver, Bits & Screws

Snake Eye Spanner Driver Kit

The Spanner Driver Kit comes with 1 Magnetic Hand Driver and Spanner Bits (4, 6, 8, 10, 12, 1/4) in a convenient vinyl pouch. Spanner Screws also available. See Snake Eye Oval Head Machine Screws.

Part Number	Description
SP5.14	#SP5 Driver Kit with 5 Bits, 1/4" hex
SP5.516	#SP5 Driver Kit with 6 Bits, 5/16" hex

Snake Eye Spanner Bits

Please indicate size/hex shape when ordering.

Bit	1/4" Hex Part Number	5/16" Hex Size Part Number
#4	1B.414	1B.4516
#6	1B.614	1B.6516
#8	1B.814	1B.8516
#10	1B.1014	1B.10516
#12	1B.1214	1B.12516
#1/4	1B.1414	1B.14516

Snake Eye Spanner Oval Head Machine Screws

These Snake Eye Spanner Oval Head Machine Screws have diameters of 10-32 and 10-24. They are made of stainless steel. Their lengths range from 1/2" to 2 in. Please specify size. Fit driver size #10. Other diameters available upon request.

Length	10-32 Diameter Part Number	10-24 Diameter Part Number
3/8"		1.102380S
1/2"	1.103120S	1.102120S
5/8"	1.103580S	1.102580S
3/4"	1.103340S	1.102340S
1"	1.10310S	1.10210S
1 1/4"	1.1031140S	1.1021140S
1"	1.1031120S	1.1021120S
2"	1.10320S	1.10220S

Questions? Answers at...

Cable Cutters

9.5 inch Cable Cutter

Part Number **354052**

Features

- 9" WireMan Smart-Grip™ 2/0 Cable Cutter
- Professional quality tool for maximum life and performance
- Premium quality tool steel provides excellent durability
- Precision mated blades for easy cutting
- Smart-Grip™ textured Santoprene™ handles provide a sure grip and are resistant to perspiration, water, oil, and chemicals
- Smart-Grip™ handle ends are color-coded and have FastFinder™ letters icons for quick identification.



Smart-Grip™ 9.5 inch Cable Cutter with Heavy-Duty Grips

Part Number **353052**

Features

- Drop-forged, high-carbon steel construction
- Precision-ground, hardened cutting edges provide accurate cuts without cable distortion
- Designed for maximum leverage with minimum effort
- Cuts 2/0 copper and 4/0 aluminum
- Smart-Grip™ handles are resistant to perspiration, water, oil and chemicals and provide a sure grip even when wet.
- Lifetime guarantee



Ratcheting Cable Cutter

Part Number **35056**

- Cuts hard drawn copper up to 400 KCMIL (MCM) and soft copper, aluminum and multiple conductor cable up to 600 KCMIL (MCM).
- Hardened steel blades ensure consistent cuts and long-term durability
- Rounded blade design minimizes cable distortion during cutting
- Quick release mechanism simplifies blade back-out
- Locking mechanism keeps handles closed for easy storage.
- Max. Jaw Opening: 1.375 in. Not for cutting steel or ACSR.

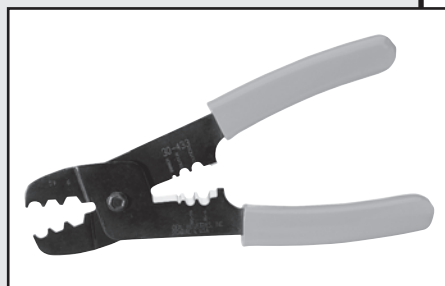
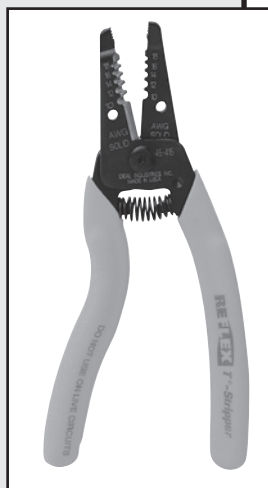


Replacement blade

Part Number **35085** (moveable side only)

Questions? Answers at...

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Wire Strippers

T-Stripper Wire Strippers

Features

- Form-ground, knife-type blades for accurate, easy stripping without nicking insulation
- Built-in wire cutter and looping holes
- Convenient plier nose for extra gripping strength
- Laser-etched wire gauge for easy-to-read visibility
- Spring-loaded automatic opening
- Corrosion resistant, black oxide finish
- Tough steel construction

Part Number	Description	Solid	Stranded
45-120	T-5 T-Stripper	10-18	12-20
45-121	T-6 T-Stripper	14-24	16-26

Reflex™ Super T-Stripper Wire Stripper

Features

- 6/32 and 8/32 self-chasing screw-cutting holes
- Locking pawl for safe storage
- Ergonomic design for maximum comfort
- Curved handles reduce wrist fatigue
- Sleeves extend forward to cushion thumb and fingers
- Textured sleeves with extra cushioning for added comfort

Part Number	Description	Solid	Stranded
45615	Reflex™ Super T Wire Stripper	8-16	10-18
45618	Reflex™ Super T Wire Stripper	8-14	8-16

Reflex™ Premium T-Stripper Wire Stripper

Features

- Ergonomic design for maximum comfort
- Curved handles reduce wrist fatigue
- Sleeves that extend to stripping head to cushion thumb and fingers
- Textured, no-slip sleeves provide a sure, easy grip

Part Number	Description	Solid	Stranded
45415	T-5 T-Stripper	10-18	12-20

Coax Strip & Crimp Tool

Part Number **30433**

Features

- Strips RG-59 and RG-6 coax cable
- Precision, form-ground stripping holes
- Durable blades cut copper-coated steel conductors
- Three crimping nests for crimping F-connectors and ring terminals
- Cushioned comfort-grip handles

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Crimping Tools

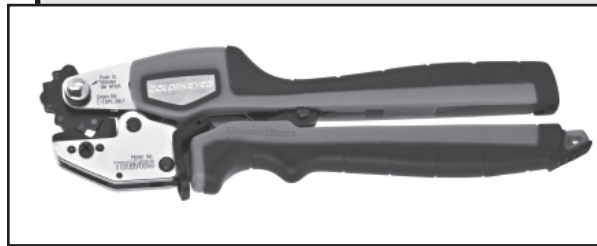
Color-Keyed Crimping Tool

T&B Catalog Number: **TBM45S**

Description: Crimps #8-#2 Cu, #10-#6 Al Connectors, 54705-54727 C-Taps

Features

- Comfort ergonomic design
- Shure-Stake ratchet
- Rotating die wheel
- Color-coded die nests; die code embossment



Smart-Grip™ Multi-Crimp Tool

Part Number **30-3429**

Features

Crimps bare or insulated terminals and splices on 10 to 22 AWG wire

9¾ in.

Knife-to-anvil blades never need resharpening

Excellent leverage for easy crimping and cutting

Drop-forged, high-carbon steel construction

Smart-Grip™ handles are resistant to perspiration, water, oil and chemicals and provides a sure grip even when wet

Lifetime guarantee



Economy Mod Plug Kit

Features

- Multi-function telephone/network tool, cuts, strips, and crimps
- Steel frame construction for durability
- Interchangeable dies allow for crimping RJ-45 and RJ-11 modular plugs
- Tool-less die change for added convenience
- Spring return handle for comfort
- Includes 10 each, RJ-11 and RJ-45 plugs

Part Number **33296**



F-Type (CATV) Connector Kit

For CATV terminations

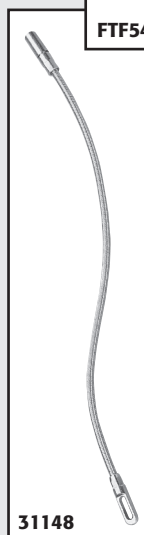
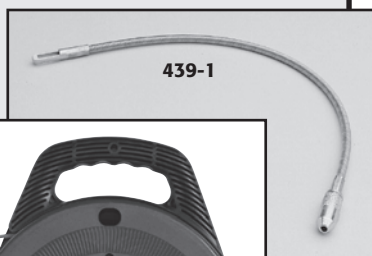
Part Number **33400**

Part Number	Description (Kit Contents)	Quantity
30503	Crimpmaster CATV	1
85016	F-Connector, Crimp-on RG-59 Plug	20
85017	F-Connector, Crimp-on RG-6 Plug	20



Questions? Answers at...

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Conduit Benders Fish Tapes

Conduit Benders

Ductile Iron Head & Handle Complete

Features

- Exceptional, durable materials for extra strength
- Reinforced at stress points for longer life
- Markings are raised and cast into the bender body on both sides for easy visibility
- Deeply serrated step helps prevent slippage when applying force
- Grooved internal hook surface helps prevent conduit from slipping
- Flat hook surface provides stable starting point
- Withstands a lifetime of heavy use
- Ductile iron material is stronger than malleable iron or aluminum

Part Number	Conduit Type & Size
74026	½" EMT
74027	¾" EMT; ½" Rigid; ½" IMC
74028	1" EMT; ¾" Rigid; ¾" IMC
74034	1¼" EMT; 1" Rigid; 1" IMC

Greenlee Fish Tapes

Part Number	Description	End Type
FTF540100	100ft. Fiberglass	Eyelet
FTFS439100	100ft. Flex Steel	Eyelet
FTFS43950	50ft. Flex Steel	Eyelet
FTN536100	100ft. Nylon	Eyelet
FTS38125	100ft. Steel	Formed Hook
FTSS438200	200ft. Stainless Steel	Eyelet
439-1	Fish Tape Leader	

Ideal Fish Tapes

Part Number	Description	End Type
31061	100ft. Fiberglass	Leader
31064	200ft. Fiberglass	Leader
31063	100ft. Fiberglass	Eyelet
31056	100ft. Nylon	Formed Hook
31057	240ft. Steel	Formed Hook
31148	Fish Tape Leader	

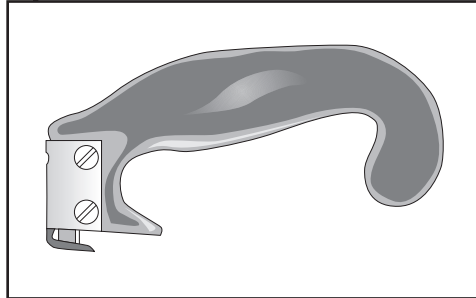
Questions? Answers at...

Cable Jacket Stripper Cable Oilers, Wicks Calipers

FCJ Stripper

Faster and safer than the utility knife it replaces, the FCJ makes easy work of stripping jackets from flat cables. A rigid, ergonomic handle fits the worker's hand and protects it from cuts and skinned knuckles. The blade is housed in an L-shaped hardened steel guide that eases stripping while keeping blade and fingers from touching. Two extra blades are included and stored within the handle. Common Schick™ injector-type blades can be economically replaced.

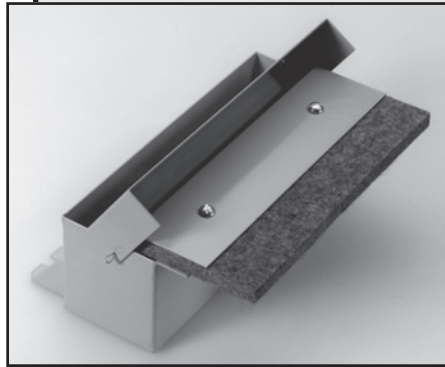
Part Number	Description	Standard Packaging
FCJ-1	Stripper	1
FCJ-RB	Replacement Blades	1
FCJ-RBG	Replacement blade guide	1



Cable Oilers

Keeps cables lubricated for longer cable and sheave life. To determine size measure distance between outside cables and add 1" to each side.

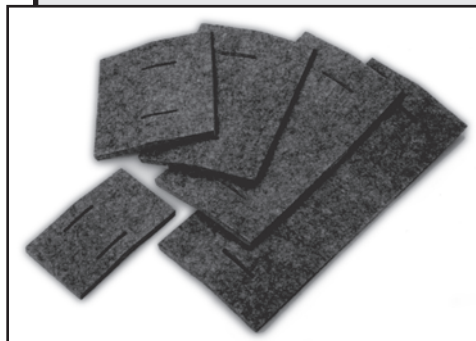
Part Number	Description
C04	4" Oiler
C07	7" Oiler
C09	9" Oiler
C012	12" Oiler
C016	16" Oiler



Wicks

Replacement wicks for cable oilers.

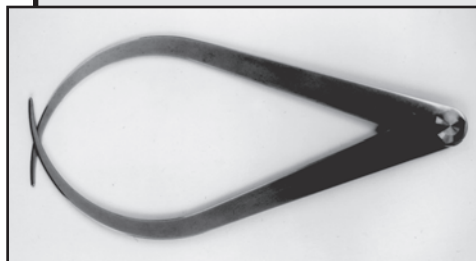
Part Number	Description
C04W	4" wick
C07W	7" wick
C09W	9" wick
C012W	12" wick
C016W	16" wick



Calipers

Part Number **FJC10**

Firm Joint outside caliper legs made from high grade steel. Measure pistons up to 13" diameter.



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Notes



Questions? Answers at...
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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970
Full line catalog available upon request

WIRE & WIRE ROPE PRODUCTS



Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

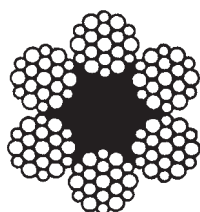
Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

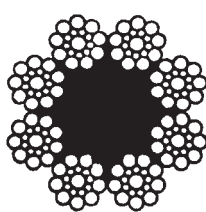
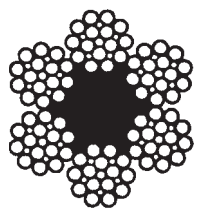
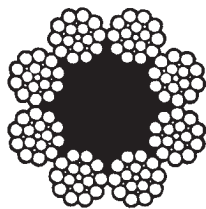
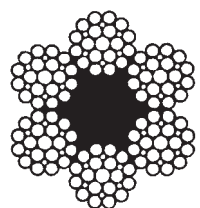
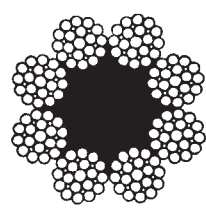
Full line catalog available on request

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6x19 Warrington
Fiber Core

8x19 Seale
Fiber Core6x21 Filler
Fiber Core8x21 Filler
Fiber Core6x25 Filler
Fiber Core8x25 Filler
Fiber Core

ELEVATOR WIRE ROPE

☐ PREFORMED

☐ NON PREFORMED

☐ TRACTION

☐ IRON

☐ E.H. STRENGTH

☐ HOIST

☐ GOVERNOR

☐ COMPENSATING

☐ NAT. FIBER CORE

☐ SYN. FIBER CORE

☐ MIXED CORE

☐ 1 W I. C.

☐ GALVANIZED

☐ 6 X 19

☐ 8 X 25

☐ 8 X 19

☐ 8 X 21

☐ 8 X 25

☐ 9 X 21

☐ 9 X 29

☐ Seale

☐ Filler

☐ Washington

☐ Regular Lay

☐ Lang's Lay

☐ Master Form

NOMINAL STRENGTH (LBS)

1 1/4"	3,000	1/2"	14,500	1 11/16"	13,400
1 1/2"	3,600	1/2"	17,500	1 11/16"	27,000
5/16"	8,400	1/2"	20,400	1 11/16"	32,800
5/16"	8,100	1/2"	20,900	1 11/16"	38,200
3/8"	8,200	1/2"	24,100	1 11/16"	40,700
3/8"	8,200	5/16"	16,500	1 11/16"	44,900
3/8"	8,200	5/16"	22,100	3/4"	16,000
3/8"	11,800	5/16"	28,000	3/4"	32,000
3/8"	12,800	5/16"	29,500	3/4"	36,900
7/16"	5,600	5/8"	14,500	3/4"	47,700
7/16"	11,000	5/8"	25,000	3/4"	52,000
7/16"	13,500	5/8"	27,200	3/4"	57,000
7/16"	16,200	5/8"	31,800	7/8"	37,000
7/16"	2,200	5/8"	33,800	7/8"	46,000
1/2"	8,400	5/8"	37,100	7/8"	42,000

OTHER ☐

DATE

NOMINAL

8/5 (50)

Elevator wire ropes are factory lubricated. ☐

hoid & comp. naps to be re-lubricated when dry. ☐

governor naps do NOT require re-lubrication. ☐

INSTALLED BY

DATE

DATE 1st SHORTENED

Elevator Wire Ropes

Traction Steel Wire Ropes — Fiber Core

6x19 Warrington, 6x25 Filler			8x19 Warrington, 8x19 Seale, 8x21 Filler, 8x25 Filler	
Diameter	Nominal	Weight	Nominal	Weight
Inches	Strength, lbs.	lbs./ft.	Strength, lbs.	lbs./ft.
3/8	8200	.23	8200	.20
7/16	11000	.31	11000	.28
1/2	14500	.40	14500	.36
9/16	18500	.51	18500	.46
5/8	23000	.63	23000	.57
11/16	27000	.76	27000	.69
5/8	32000	.63	32000	.82

* Right Regular Lay or Right Lang Lay available

Extra High Strength Wire Ropes — Fiber Core

6x19 Filler			8x19 Seale	
Diameter Inches	Nominal Strength, lbs.	Weight lbs./ft.	Nominal Strength, lbs.	Weight lbs./ft.
3/8	11600	.23	9900	.20
7/16	15700	.31	13500	.28
1/2	20400	.40	17500	.36
9/16	25700	.51	22100	.46
5/8	31600	.63	27200	.57
11/16	27000	.76	27000	.69

* Larger sizes available upon request

Governor Wire Ropes — Iron

6x25 Filler			8x19 Warrington, 8x25 Filler	
Diameter	Nominal	Weight	Nominal	Weight
Inches	Strength, lbs.	lbs./ft.	Strength, lbs.	lbs./ft.
3/8	5000	.23	4200	.20
7/16	6400	.31	5600	.28
1/2	8400	.40	7200	.36
9/16	10600	.51	9200	.46
5/8	12800	.63	11200	.57

Generic Rope Tag

Part Number: **BlankTag**

Questions? Answers at...

Western US: 866 CED-ELEV **Eastern US: 866-253-2915**
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

MasterForm™ Compacted Strand Rope

Fiber Core

Diameter Inches	8x19 Seale Weight lbs./ft.	Minimum Breaking Load (lbs)	
		Traction Grade	EHS Grade
3/8	.23	9000	11000
7/16	.31	12300	14900
1/2	.40	16000	19400
9/16	.50	20500	24800
5/8	.62	25400	30800
11/16	.75	30700	37200
3/4	.89	36600	44400
7/8	1.20	50000	60500
1	1.57	65400	79000

Messilot's MasterForm™ ropes answer the higher demands needed in applications where the conditions make it impractical to use regular ropes or ropes with steel core. MasterForm™ ropes are 8x19 Seale, right Lang lay ropes, but the strands are compacted during manufacture. This compacting process has many benefits:

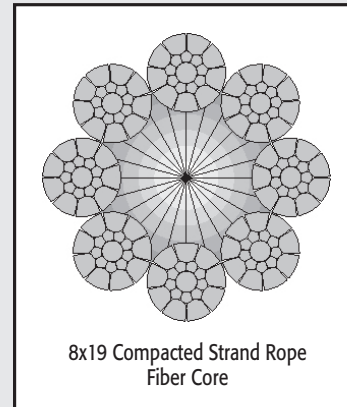
- The minimum breaking load is much higher than a regular rope of the same diameter and grade. This means that in the elevator, the load on the rope will be lower as a percentage of the breaking load.
- The outer surface of the strands is smoother than in regular ropes and the surface area is larger. Larger surface area means **lower pressure and lower stresses in the wires**, resulting in **less wear of both rope and sheave**, and **greatly improved fatigue resistance**.

Seale Parallel Laid Rope — Steel Core

Diameter Inches	9x17 Seale Weight lbs./ft.	Minimum Breaking Load (lbs)
		Traction Grade
3/8	.261	13400
7/16	.354	18500
1/2	.461	24300
9/16	.582	30900
5/8	.718	38200

The parallel closed steel core maximizes the metallic cross section and also improves the fatigue resistance of the rope because it reduces the internal contact pressure between the outer strands and the core. The breaking force is significantly higher than traditional constructions or combined core ropes. Used on traction drive elevators, especially on high rise installations, high speeds or where the ropes pass over many deflection sheaves. Parallel closed ropes are sensitive to externally induced torque.

During installation care should be taken to avoid twisting the ropes or letting the ropes untwist under their own weight while they hang freely.



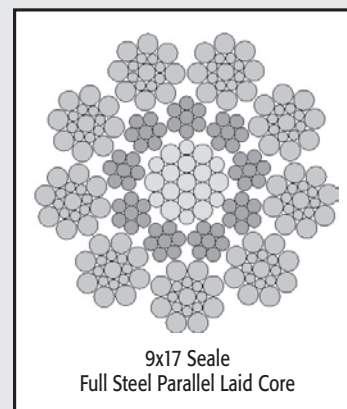
Rope Lay Terminology—Wire Direction

Right Lang Lay (RLL)

- Strands turn to the right
- Wires run in the same direction as strands
- Higher metallic surface area and flexibility
- Ideal for basement and side mount traction systems
- Hoist ropes

Right Regular Lay (RRL)

- Strands turn to the right
- Wires run down the rope opposite to strands
- Hoist, Compensating and Governor ropes



Questions? Answers at...

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Power Cable TEW Type & THHN Type

Power Cable Single Conductor, TEW Type — 600 Volt/105°C Rated

Part Number	Description/Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Current Rating	Put-ups	Jacket Colors (abbrv. below)
18 AWG TEW	16/.01" strand copper • 18 AWG	.11 • 2.79	8 • 12	6 amps	500'	all (see below)
16 AWG TEW	26/.01" strand copper • 16 AWG	.123 • 3.12	11 • 16	8 amps	500'	all
14 AWG TEW	41/.01" strand copper • 14 AWG	.132 • 3.35	18 • 27	15 amps	500'	all
12 AWG TEW	19/.01" strand copper • 12 AWG	.151 • 3.84	25 • 37	20 amps	500'	all

Jacket Colors

BL=black **BR**=brown **BU**=blue
GN=green **GY**=grey **RD**=red **MR**=maroon **OR**=orange
PK=pink **PU**=purple **TN**=tan **WH**=white **YW**=yellow

Power Cable Single Conductor, THHN Type — 600 Volt/90°C Rated

Part Number	Description/Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Current Rating	Insulation Thickness	Jacket Colors (abbrv. below)
4/0 THHN	19 strand. copper 4/0 AWG • 108 mm2	.63 • 16.0	711 • 1058	260 amps	.05 inches	BL
3/0 THHN	19 strand. copper 3/0 AWG • 84.9 mm2	.57 • 14.5	570 • 848	225 amps	.05 inches	BL
2/0 THHN	19 strand. copper 2/0 AWG • 67.5 mm2	.52 • 13.2	458 • 681	195 amps	.05 inches	BL
1/0 THHN	19 strand. copper 1/0 AWG • 53.4 mm2	.48 • 12.2	369 • 549	170 amps	.05 inches	BL
1 AWG THHN	19 strand. copper 1 AWG • 42.5 mm2	.44 • 11.2	297 • 442	150 amps	.05 inches	BL
2 AWG THHN	19 strand. copper 2 AWG • 33.7 mm2	.38 • 9.7	232 • 345	130 amps	.04 inches	BL, GN
4 AWG THHN	19 strand. copper 4 AWG • 21.2 mm2	.32 • 8.1	151 • 225	95 amps	.04 inches	BL, GN
6 AWG THHN*	19 strand. copper 6 AWG • 13.3 mm2	.25 • 6.4	94 • 140	75 amps	.03 inches	BL, GN, BU RD, WH
8 AWG THHN*	19 strand. copper 8 AWG • 8.3 mm2	.21 • 5.3	62 • 92	55 amps	.03 inches	BL, GN, BU OR, RD, WH
10 AWG THHN*	19 strand. copper 10 AWG • 5.2 mm2	.16 • 4.0	38 • 57	30 amps	.02 inches	all
12 AWG THHN*	19 strand. copper 12 AWG • 3.3 mm2	.13 • 3.3	24 • 36	20 amps	.02 inches	all

Component Specifications

Stranded Conductors

Bare soft drawn copper complying with ANSI/ASTM B174 and ANSI/ASTM B3.

Jacketing

Nylon (polyamide) or its UL listed equivalent.

Jacket Colors

BL=black
GN=green

*6 AWG, 8 AWG, 10 AWG and 12 AWG are suitable for 105° C appliance wiring material (AWM). They also come in a variety of insulation colors and put-ups. See the last column (Jacket Colors) and the abbreviations below. When ordering, be sure to specify the insulation color and put-up you require.

All cables are cut to length. Please specify.

MTW or THHN or THWN-2 conductors shall be UL Type "MTW or THHN or THWN-2," suitable for operations at 600 volts as specified in the National Electrical Code, at conductor temperatures not to exceed 75° C when exposed to oil or coolant, 90° C in wet or dry locations. Conductors shall be annealed copper, insulated with high-heat and moisture-resistant PVC, jacketed with abrasion, moisture, gasoline, and oil-resistant nylon or UL-listed equivalent.

Questions? Answers at...

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Door Lock Wire

Door Lock Wire Single Conductor — 600 Volt/200°C Rated General Purpose SF-2, Hook-up, Hoistway Door, Interlock Wire

Part Number	Description/Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Current Rating	Put-ups	Jacket Colors (abr. below)
16 ASF-2	7/.019" tinned copper 16 AWG • 1.3mm ²	0.14 • 3.6	15 • 22.3	8 amps	500, 1000'	BL
18 ASF-2 Strand	7/.015" tinned copper 18 AWG • 0.8mm ²	0.13 • 3.3	12 • 17.9	6 amps	500, 1000'	BL & WH/RD

Component Specifications

Stranded Conductors

Bare soft drawn copper complying with ANSI/ASTM B174 and ANSI/ASTM B3.

Solid Conductors

Solid bare soft drawn copper complying with ANSI/ASTM B3.

Tinned Stranded Conductors

As above, with the copper conductor tinned for easier soldering.

Jacket Colors

BL=Black

RD=Red

WH/RD=white/red

Hook Up Wire — Stranded Tinned Copper, Color Coded PVC Insulation

Gauge	UL Type	Voltage Rating	Nom. O.D.	Put-ups
24 AWG	UL1007/1569	300	0.057	500, 1000
22 AWG	UL1007/1569	300	0.064	500, 1000
20 AWG	UL1007/1569	300	0.072	500, 1000
18 AWG	UL1007/1569	300	0.082	500, 1000
16 AWG	UL1007/1569	300	0.095	500, 1000
14 AWG	UL1007/1569	300	0.11	500, 1000
24 AWG	UL1015	600	0.088	500, 1000
22 AWG	UL1015	600	0.095	500, 1000
20 AWG	UL1015	600	0.102	500, 1000
18 AWG	UL1015	600	0.112	500, 1000
16 AWG	UL1015	600	0.125	500, 1000
14 AWG	UL1015	600	0.142	500, 1000
12 AWG	UL1015	600	0.156	500, 1000
10 AWG	UL1015	600	0.184	500, 1000
8 AWG	UL3374	600	0.327	500, 1000
6 AWG	UL3374	600	0.383	As Required
4 AWG	UL3374	600	0.432	As Required
1/0 AWG	UL3374	600	0.633	As Required
2/0 AWG	UL3374	600	0.698	As Required

Jacket Colors

Black

Blue

Brown

Violet

Red

Gray

White

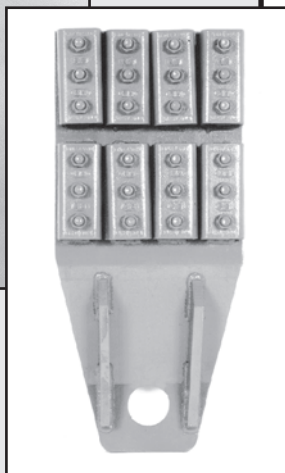
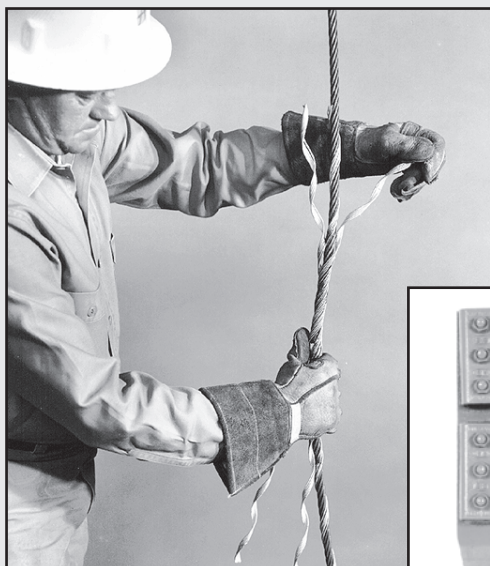
Orange

Green/Yellow

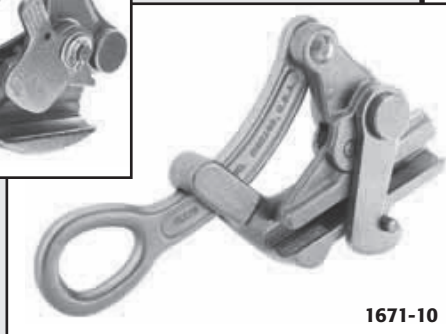
**Special Stripes, Twisted Pairs and other value added options available by request.

Questions? Answers at...

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or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



1685-20



1671-10

Splices, Clamps & Grips

Seizing Wire

Cabling or re-roping an elevator? Repairing a split handle on your shovel? This 22-gauge (0.0286" dia.), steel wire is ideal for lashing, binding, whipping, bailing, seizing and even temporary repairs. One (1) lb. spools in stock. Other sizes and quantities also available.

Part Number **13-200**

Reeving Splices

Eliminate the headaches associated with marrying wire ropes. Reeving Splices save up to 30 minutes per application by simplifying the marrying of wire ropes during elevator re-roping operations. The economical disposable tools permit easy passage of married ropes over or under sheaves. Applied in seconds by hand, without tools, Reeving Splices maintain constant, positive grip, even when ropes go slack.

Part Number	Rope Size	Part Number	Rope Size
16-210	1/2"	16-211	9/16"
16-212	5/8"	16-214	3/4"
16-216	7/8"		

Shortening Clamp

Designed to allow the user to pick the car by clamping onto the hoist ropes directly above the hitch plate. Once the shortening clamp is in place a hoist can be attached between it and the crosshead. Slack can then be created in the hoist ropes allowing for easy shortening at the hitchplate. Each rope is gripped with two (2) cast clamps which have a serrated pattern in one groove and is smooth in the other. These serrations allow for more positive gripping of the rope. Each cast clamp is secured to the main bracket by three 1/2" bolts.

Part Number		Part Number	
16-280	6 ropes at 1/2"	16-281	6 ropes at 5/8"
16-285	8 ropes at 1/2"	16-286	8 ropes at 5/8"

Parallel Jaw Grips (Rope Grips)

Here's a great little tool for pulling wire ropes into the hoistway or fastening on to, as in governor pull-thru tests. The long jaws achieve a firm hold, reducing possibility of slippage and damage to rope. The latch helps maintain the rope in the grip jaws and the large eye is ideal for large hooks or quick release clevises. Attaches to ropes 3/8" to 3/4" in diameter. Other sizes available.

Part Number	Cable Min/Max	Max Safe Load	Jaw Length	Approx Weight
1685-20	.157/.875"	4500lbs.	2.50"	3lbs.
1671-10	.37/.75"	10,000lbs.	4.325"	5lbs.

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Clamps, Clips & Bands

Roebbling Clamp

Each of these clamps securely grab two ropes. Rope resists slipping through the clamp because of the spiral ridges cast into the grooves. Includes hardware shown.

Part Number	Size	Part Number	Size
16-050	1/2"	16-051	5/8"



Wire Rope Clips

Want to fasten two pieces of wire rope together with little or no damage to either rope, such as rigging for governor pull-thru tests? The combination bolt and saddle fist grip, make for easy assembly. For more permanent rigging use the familiar wire rope clips. Both style clips are forged steel with hot dipped galvanized finish and include standard full nut. Application data available upon request. Most popular sizes in stock.

A. Fist Grip Style:

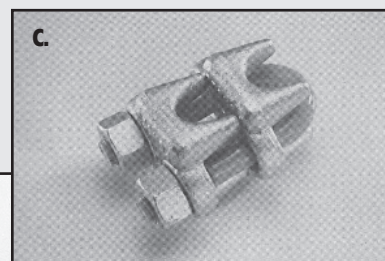
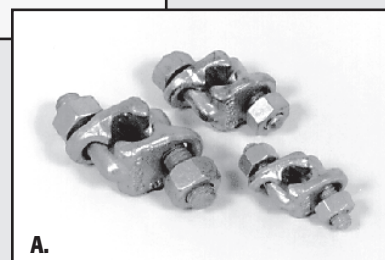
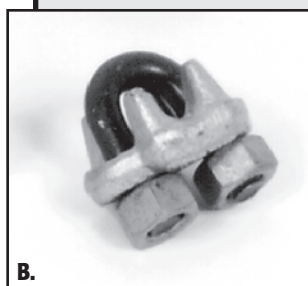
Part Number	Size	Part Number	Size
16-002	3/8"	16-004	1/2"
16-006	(5/8")	16-008	3/4"
16-000	5/16"		

B. Wire Rope Clips:

Part Number	Size	Part Number	Size
16-012	(3/8")	16-014	(1/2")
16-016	(5/8")	16-018	(3/4")

C. Double Wire Rope Clips:

Part Number	Size	Part Number	Size
16-022	3/8"	16-024	1/2"
16-026	5/8"	16-028	3/4"
16-010	1/4"		



Cable Bands

Easier than double whipping cables with seizing wire. Bands are easily installed with pliers and prevent wire rope from fraying when being cut. Sized for all popular wire rope dimensions.

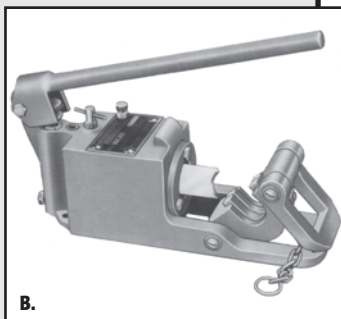
Part Number	Rope Size	Part Number	Rope Size
16-201	1/4"	16-202	3/8"
16-203	1/2"	16-204	5/8"
16-205	3/4"	16-206	7/8"
16-207	1"	16-208	1 1/4"

Questions? Answers at...

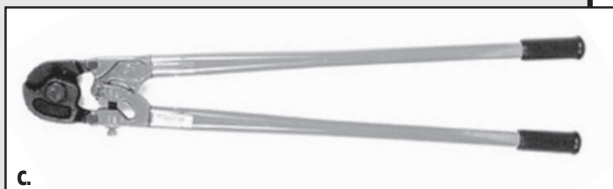
Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



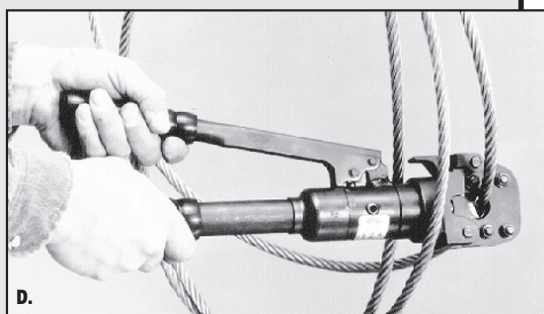
A.



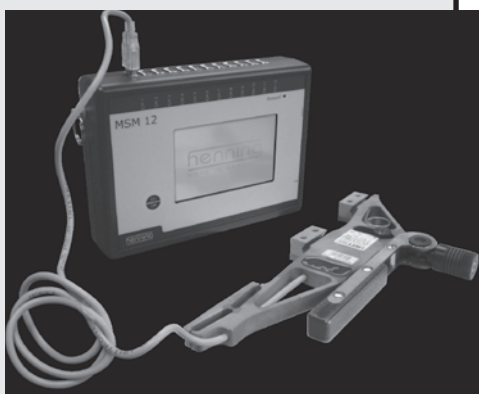
B.



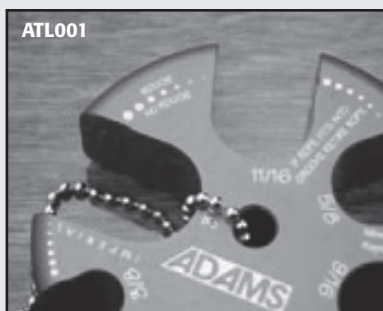
C.



D.



WRG-2000



ATL001

Wire Rope Cutters, Gauges, Tension Measuring

Wire Rope Cutters

A. Impact Wire Rope Cutter

Part Number 16-120 An inexpensive tool to cut wire rope cleanly and easily.

B. Hydraulic Rope Cutter

Part Number 16-130 Simple and easy to use. The pump-like handle is dependable and strong, being able to hold just about any weight.

C. Manual Wire Rope Cutter

Part Number 16-110 An excellent cutter for up to 3/4" wire rope. Its notched jaws and shearing action hold and cut with a minimum of distortion. Other cutters available for wire rope or electrical cable.

D. Huskie Wire Rope Cutter

Part 16-140 The modern, safe way to cut wire ropes. Hand-held, hand-pumped, hydraulic cutter with compact, lightweight, rugged design. Its 15" length makes it convenient to use on car tops and provides fast clean cuts, even through 3/4" wire rope. Replacement parts and repair service are available.

Mobile Rope-Tension Measuring System

Patented measuring principle allows you to measure and set the optimum tension of each rope, quickly and easily (integrated software-wizard). Works with different rope types and diameters.

Part Number	Description
EPW-455100	Includes control and 4 rope load sensors
EPW-455600	Additional LSM1 load sensor

Wire Rope Gauges

Part Number WRG-2000

The easy, no-hassle, foolproof way to check elevator wire rope for maximum reduced diameter. Designed for 3/8" 1/2" 5/16" and 5/8" diameter wire rope. No guess work, no mistakes, the gauge contact area of rope is from one lay to several strands, depending on rope diameter. Gauge stays parallel to rope, so you are always checking from the top of one strand to the top of the opposite strand for maximum reduced diameter. If rope fits into slot, it should be replaced. Manufactured to ASME A17.1-1996 1001.2(C)(29)(C) specs of 2011 T3 aluminum, anodized red finish, acid etched numerals.

Part Number ATL001

Seven diameter markings are laser etched. Nominal diameter is marked on one side, ASME diameter reduction criteria for rope retirement marked on the other side. If gauge fits over rope, rope does not meet ASME requirements and should be inspected further. Available in Imperial scale for rope diameters from 3/8" through 1/2".

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

Wedge & Babbit Sockets, Springs, Melting Pot

Wedge Sockets

- Replace your old babbit sockets with wedge sockets. Save time, avoid fires, be safer, and avoid bad babbit pours when you're reroping, or when you have to take the "stretch" out of your cable.
- Easy installation and adjustment
- Wedge sockets have been approved in all 50 states as well as the cities of Los Angeles, Chicago, and New York.
- Test for extra high tensile strength at 31,600lbs on 6 x 19 rope.

EMCO Part Number	Zippo Part Number	Dimensions	Rod Diam.	Rod Length
WS3812	ZZWNS10-12	3/8 x 18	1/2"	12"
WS3818	ZZWNS10-18	3/8 x 24	1/2"	18"
WS3824	ZZWNS10-24	3/8 x 30	1/2"	24"
WS1212	ZZWNS13-12	1/2 x 18	3/4"	12"
WS1218	ZZWNS13-18	1/2 x 24	3/4"	18"
WS1224	ZZWNS13-24	1/2 x 30	3/4"	24"
WS1230	ZZWNS13-30	1/2 x 36	3/4"	30"
WS1236	ZZWNS13-36	1/2 x 42	3/4"	36"
WS5812	ZZWNS16-12	5/8 x 18	3/4"	12"
WS5818	ZZWNS16-18	5/8 x 24	3/4"	18"
WS5824	ZZWNS16-24	5/8 x 30	3/4"	24"
WS5830	ZZWNS16-30	5/8 x 30	3/4"	30"
WS5836	ZZWNS16-36	5/8 x 42	3/4"	36"

* Clips and wedges can be ordered separately.

- Larger sizes of wedge sockets for heavy freight elevators, high-speed gearless, as well as for use with compensatory ropes are available upon request.

Governor Rope Wedge Sockets

For 1/2" and 3/8" rope.

Part Numbers **WS12GOV** and **WS38GOV**

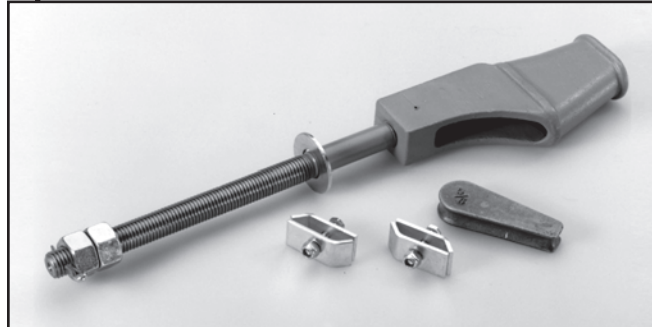
Babbit Sockets & Babbits

Available, call for details.

Melting Pot & Accessories

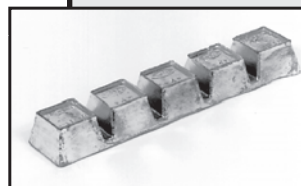
This electric, high-quality cast iron melting pot with handle comes in 3 sizes, 15, 30, and 60 lbs. All melting pots have a variable thermostat that operates in the temperature range between 150-900 F. Melting pots operate on 110 VAC and come with a 6-foot power cord.

Part Number	Size	Part Number	Description
		16-450	Babbitt 9.34 lb.
16-405	30 lb.	16-420	Ladle 3"
16-410	60 lb.	16-421	Ladle 6"



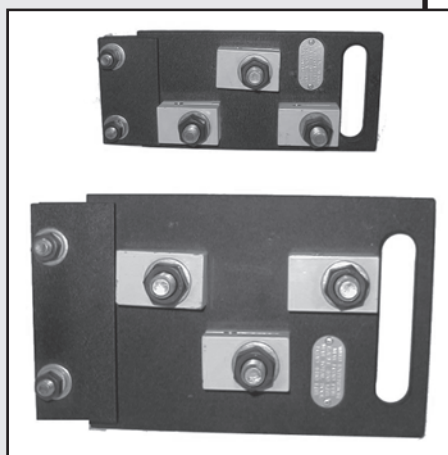
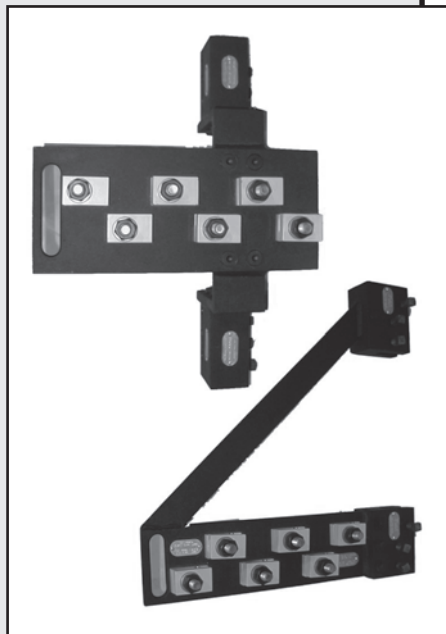
Springs

Part Number	Description	Dimensions		
		Length	O.D.	I.D.
SS900	For 1/2" rope	5"	1 13/16"	1 1/8"
SS1000	For 5/8" rope	4 3/4"	2 13/16"	1 1/8"
SS900A	Bushing assembly for both springs Includes 3 bushings, 3 washers			



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



2:1 Rope Change Tooling

2:1 Rope Change Out Tool

This tool was designed specifically for 2:1 roping change out. You can easily eliminate excess labor costs by utilizing this patented, USA made tool. It is capable of safely and efficiently replacing up to 9 wire ropes (3/8" - 5/8"). You must add the extension brackets for all change outs from 7 to 9 ropes. For 2:1 rope change outs up to six (6) wire ropes you must specify the cable clip size. Each kit comes with complete installation instructions to guide you through the process of rope replacement.

Part Number	Description
16-800	2:1 Rope Change Out Tool, Basic Kit (Includes 16-800-01 & 16-800-02)
16-800-01	Replacement Live End Cable Support Bracket
16-800-02	Replacement Dead End Cable Support Bracket
82660	'T' Handle Hex Drive

2:1 Color Coded Cable Clip Assembly

Part Number	Description
16-800-03	3/8" Yellow Cable Clip Assembly (1) per cable, includes (2) 23203 Cap Screws
16-800-04	1/2" Red Cable Clip Assembly (1) per cable, includes (2) 23203 Cap Screws
16-800-05	5/8" Blue Cable Clip Assembly (1) per cable, includes (2) 23203 Cap Screws

2:1 Rope Change Out Tool Extension Kit

Designed specifically for 2:1 roping change out. By adding this extension kit to the basic kit, up to 9 wire ropes (3/8" to 5/8") can be replaced safely and efficiently.

Part Number	Description
16-800-06	Replacement Live End Extension Bracket
16-800-07	Replacement Dead End Extension Bracket
16-800-08	Complete Kit, includes 16-800-06 & 16-800-07

Questions? Answers at...

WIREWAY & FITTINGS



Questions? Answers at...

Western US: 1-866 CED-ELEV
or 1-866-233-3538 • Fax 1-562-427-8429

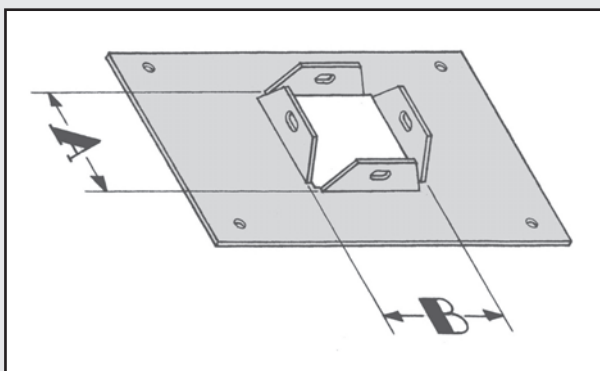
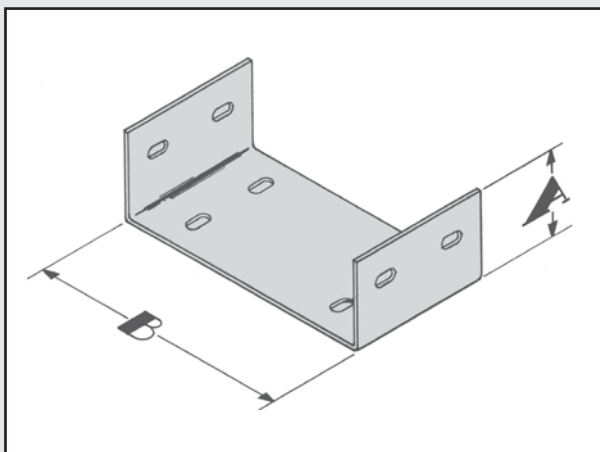
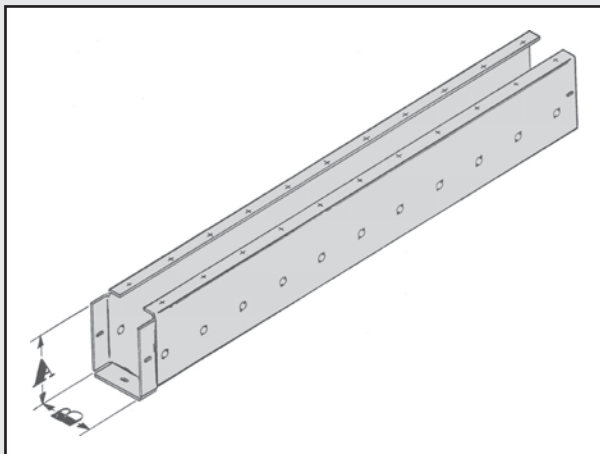
Eastern US: 1-866-253-2915
or 1-860-256-2211 • Fax 1-860-290-8970

or visit us online at
www.cedelelevator.com
for 24 hour order entry,
cross reference data base,
product specifications
with pictures and much more!

Full line catalog available on request

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Duct, Connector & Panel Connector

Duct

Part Number	Dimensions Inches (A x B x 120)	Part Number	Dimensions Inches
DCV-2525120-U	2½ x 2½ x 120	DCV-254120-U	2½ x 4 x 120
DCV-256120-U	2½ x 6 x 120	DCV-258120-U	2½ x 8 x 120
DCV-2510120-U	2½ x 10 x 120	DCV-2512120-U	2½ x 12 x 120
DCV-2514120-U	2½ x 14 x 120	DCV-44120-U	4 x 4 x 120
DCV-46120-U	4 x 6 x 120	DCV-48120-U	4 x 8 x 120
DCV-410120-U	4 x 10 x 120	DCV-412120-U	4 x 12 x 120
DCV-414120-U	4 x 14 x 120	DCV-66120-U	6 x 6 x 120
DCV-68120-U	6 x 8 x 120	DCV-88120-U	8 x 8 x 120

- UL approved
- Two covers and hardware provided with each duct.
- Knockouts available on all duct except 6x6 and 8x8.

Connector/Splice

Part Number	Dimensions Inches (A x B)	Part Number	Dimensions Inches (A x B)
CON-2525-U	2½ x 2½	CON-25444-U	2½ x 4, 4 x 4
CON-25646-U	2½ x 6, 4 x 6	CON-25848-U	2½ x 8, 4 x 8
CON-2510410-U	2½ x 10, 4 x 10	CON-2512412-U	2½ x 12, 4 x 12
CON-2514414-U	2½ x 14, 4 x 14	CON-66-U	6 x 6
CON-68-U	6 x 8	CON-88-U	8 x 8

- UL approved

Panel Connector/Flange

Part Number	Dimensions Inches (A x B)	Part Number	Dimensions Inches (A x B)
PCN-2525-U	2½ x 2½	PCN-254-U	2½ x 4
PCN-256-U	2½ x 6	PCN-258-U	2½ x 8
PCN-2510-U	2½ x 10	PCN-2512-U	2½ x 12
PCN-2514-U	2½ x 14	PCN-44-U	4 x 4
PCN-46-U	4 x 6	PCN-48-U	4 x 8
PCN-410-U	4 x 10	PCN-412-U	4 x 12
PCN-414-U	4 x 14	PCN-66-U	6 x 6
PCN-68-U	6 x 8	PCN-88-U	8 x 8

- UL approved

Questions? Answers at...

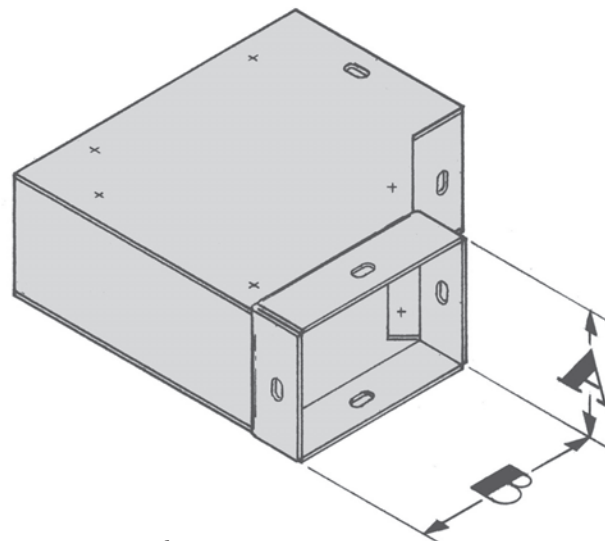
Western US: 866 CED-ELEV Eastern US: 866-253-2915
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

90° Elbow & Tee Assemblies

90° Elbow Assembly

Part Number	Dimensions Inches (A x B)	Part Number	Dimensions Inches (A x B)
L90-2525-U	2½ x 2½	L90-254-U	2½ x 4
L90-256-U	2½ x 6	L90-258-U	2½ x 8
L90-2510-U	2½ x 10	L90-2512-U	2½ x 12
L90-2514-U	2½ x 14	L90-425-U	4 x 2½
L90-44-U	4 x 4	L90-46-U	4 x 6
L90-48-U	4 x 8	L90-410-U	4 x 10
L90-412-U	4 x 12	L90-414-U	4 x 14
L90-625-U	6 x 2½	L90-64-U	6 x 4
L90-66-U	6 x 6	L90-68-U	6 x 8
L90-825-U	8 x 2½	L90-84-U	8 x 4
L90-86-U	8 x 6	L90-88-U	8 x 8
L90-1025-U	10 x 2½	L90-104-U	10 x 4
L90-1225-U	12 x 2½	L90-124-U	12 x 4
L90-1425-U	14 x 2½	L90-144-U	14 x 4

- UL approved

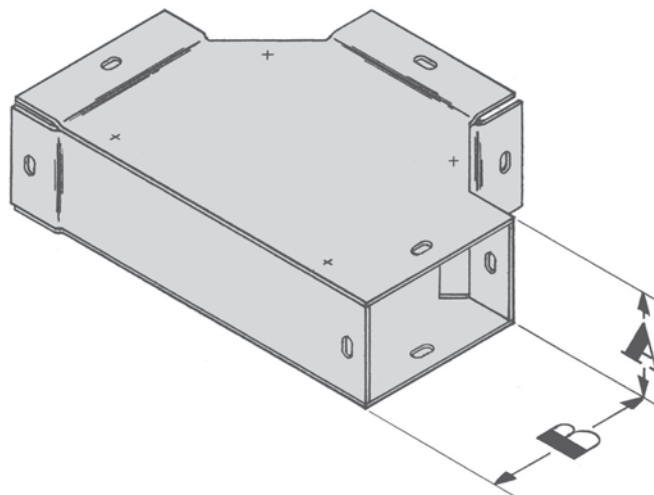


FLAT 90° SHOWN, i.e. L90-254120

Tee Assembly

Part Number	Dimensions Inches (A x B)	Part Number	Dimensions Inches (A x B)
TEE-2525-U	2½ x 2½	TEE-254-U	2½ x 4
TEE-256-U	2½ x 6	TEE-258-U	2½ x 8
TEE-2510-U	2½ x 10	TEE-2512-U	2½ x 12
TEE-2514-U	2½ x 14	TEE-425-U	4 x 2½
TEE-44-U	4 x 4	TEE-46-U	4 x 6
TEE-48-U	4 x 8	TEE-410-U	4 x 10
TEE-412-U	4 x 12	TEE-414-U	4 x 14
TEE-625-U	6 x 2½	TEE-64-U	6 x 4
TEE-66-U	6 x 6	TEE-68-U	6 x 8
TEE-825-U	8 x 2½	TEE-84-U	8 x 4
TEE-86-U	8 x 6	TEE-88-U	8 x 8
TEE-1025-U	10 x 2½	TEE-104-U	10 x 4
TEE-1225-U	12 x 2½	TEE-124-U	12 x 4
TEE-1425-U	14 x 2½	TEE-144-U	14 x 4

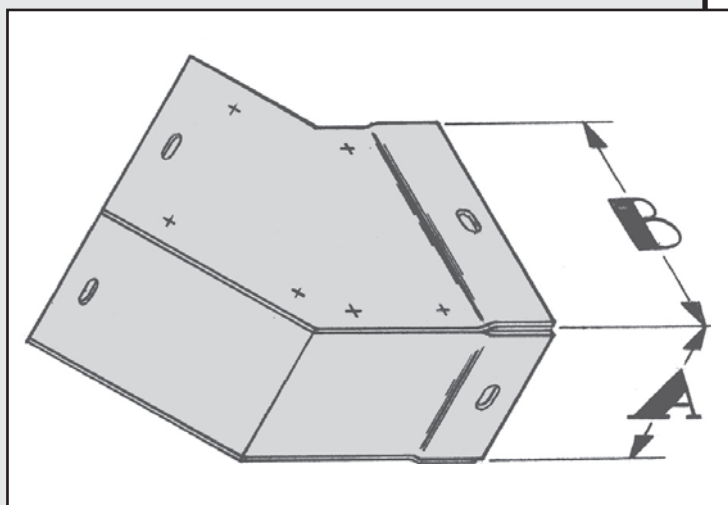
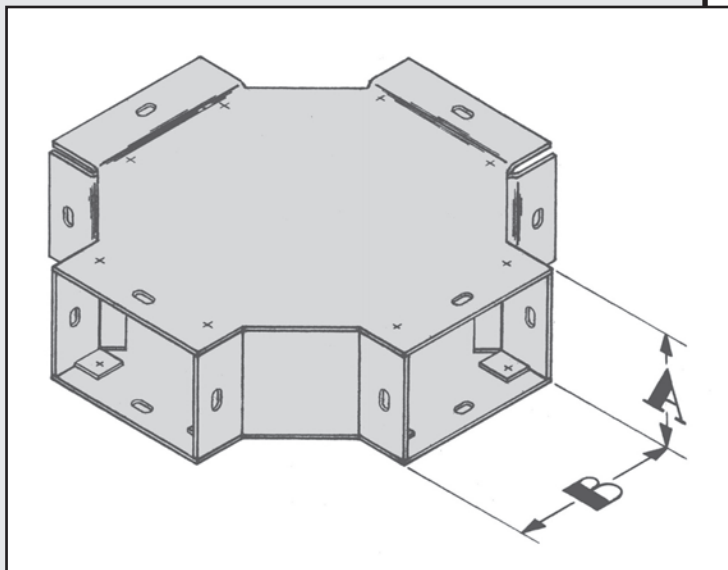
- UL approved



FLAT 90° SHOWN, i.e. TEE-254

Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Crossover & 45° Elbow Assemblies

Crossover Assembly

Part Number	Dimensions Inches (A x B)	Part Number	Dimensions Inches (A x B)
CRS-2525-U	2½ x 2½	CRS-254-U	2½ x 4
CRS-256-U	2½ x 6	CRS-258-U	2½ x 8
CRS-2510-U	2½ x 10	CRS-2512-U	2½ x 12
CRS-2514-U	2½ x 14	CRS-425-U	4 x 2½
CRS-44-U	4 x 4	CRS-46-U	4 x 6
CRS-48-U	4 x 8	CRS-410-U	4 x 10
CRS-412-U	4 x 12	CRS-414-U	4 x 14
CRS-625-U	6 x 2½	CRS-64-U	6 x 4
CRS-66-U	6 x 6	CRS-68-U	6 x 8
CRS-825-U	8 x 2½	CRS-84-U	8 x 4
CRS-86-U	8 x 6	CRS-88-U	8 x 8
CRS-1025-U	10 x 2½	CRS-104-U	10 x 4
CRS-1225-U	12 x 2½	CRS-124-U	12 x 4
CRS-1425-U	14 x 2½	CRS-144-U	14 x 4

• UL approved

45° Elbow Assembly

Part Number	Dimensions Inches (A x B)	Part Number	Dimensions Inches (A x B)
L45-2525-U	2½ x 2½	L45-254-U	2½ x 4
L45-256-U	2½ x 6	L45-258-U	2½ x 8
L45-2510-U	2½ x 10	L45-2512-U	2½ x 12
L45-2514-U	2½ x 14	L45-425-U	4 x 2½
L45-44-U	4 x 4	L45-46-U	4 x 6
L45-48-U	4 x 8	L45-410-U	4 x 10
L45-412-U	4 x 12	L45-414-U	4 x 14
L45-625-U	6 x 2½	L45-64-U	6 x 4
L45-66-U	6 x 6	L45-68-U	6 x 8
L45-825-U	8 x 2½	L45-84-U	8 x 4
L45-86-U	8 x 6	L45-88-U	8 x 8
L45-1025-U	10 x 2½	L45-104-U	10 x 4
L45-1225-U	12 x 2½	L45-124-U	12 x 4
L45-1425-U	14 x 2½	L45-144-U	14 x 4

• UL approved

Questions? Answers at...

End Cap/Reducer Insulated Bushing

End Cap/Reducer

Part Number	Dimensions Inches (A x B)	Part Number	Dimensions Inches (A x B)
EPT-2525-U	2½ x 2½	EPT-254-U	2½ x 4
EPT-256-U	2½ x 6	EPT-258-U	2½ x 8
EPT-2510-U	2½ x 10	EPT-2512-U	2½ x 12
EPT-2514-U	2½ x 14	EPT-425-U	4 x 2½
EPT-44-U	4 x 4	EPT-46-U	4 x 6
EPT-48-U	4 x 8	EPT-410-U	4 x 10
EPT-412-U	4 x 12	EPT-625-U	6 x 2½
EPT-64-U	6 x 4	EPT-66-U	6 x 6
EPT-68-U	6 x 8	EPT-825-U	8 x 2½
EPT-84-U	8 x 4	EPT-86-U	8 x 6
EPT-88-U	8 x 8	EPT-1025-U	10 x 2½
EPT-104-U	10 x 4	EPT-1225-U	12 x 2½
EPT-124-U	12 x 4	EPT-1425-U	14 x 2½
EPT-144-U	14 x 4		

- UL approved

Reducer

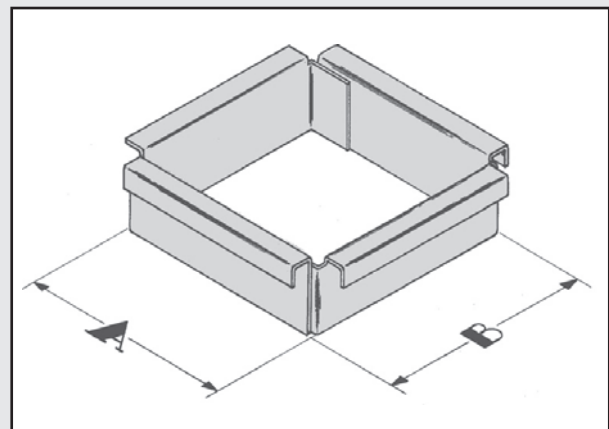
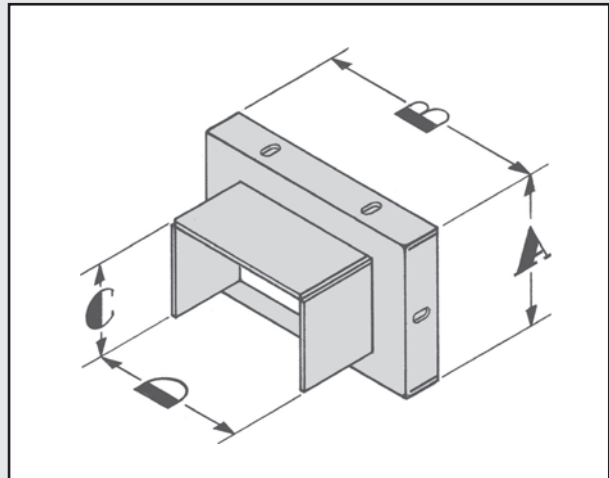
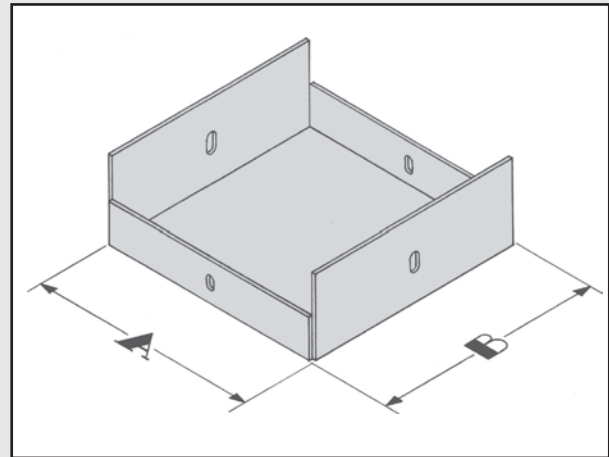
Part Number	Dimensions Inches (A x B-C x D)	Part Number	Dimensions Inches (A x B-C x D)
RDC-256254-U	2½ x 6-2½ x 4	RDC-44254-U	4 x 4-2½ x 4
RDC-46254-U	4 x 6-2½ x 4	RDC-4644-U	4 x 6-4 x 4
RDC-48254-U	4 x 8-2½ x 4	RDC-4844-U	4 x 8-4 x 4
RDC-4846-U	4 x 8-4 x 6	RDC-66254-U	6 x 6-2½ x 4
RDC-6644-U	6 x 6-4 x 4	RDC-6646-U	6 x 6-4 x 6
RDC-8844-U	8 x 8-4 x 4		

- UL approved

Insulated Bushing

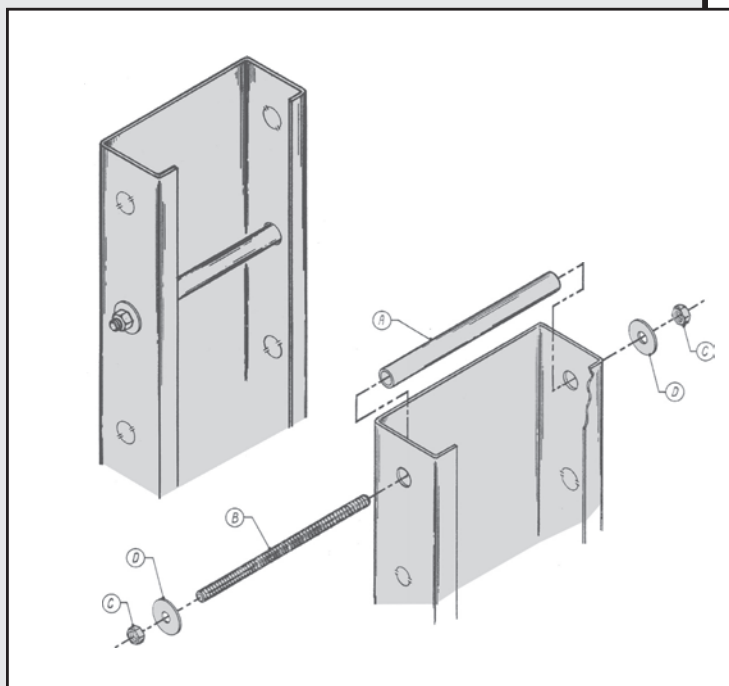
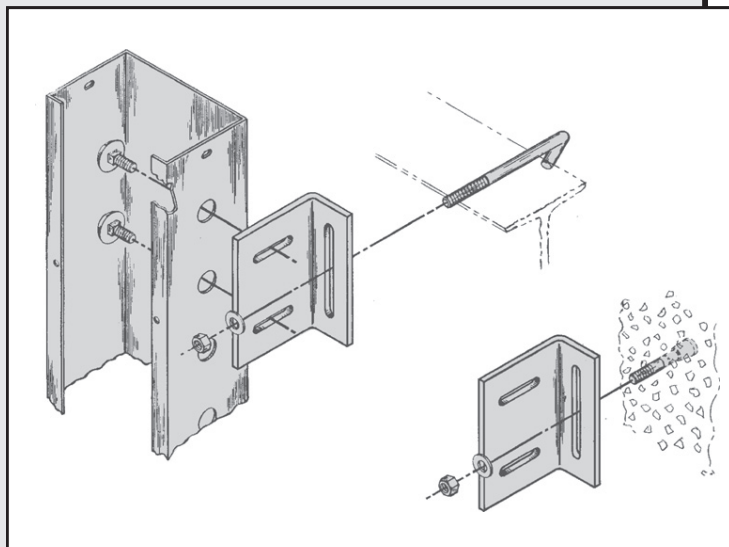
Part Number	Dimensions Inches (A x B)	Part Number	Dimensions Inches (A x B)
ISB-2525-U	2½ x 2½	ISB-254-U	2½ x 4
ISB-256-U	2½ x 6	ISB-258-U	2½ x 8
ISB-2510-U	2½ x 10	ISB-2512-U	2½ x 12
ISB-2514-U	2½ x 14	ISB-44-U	4 x 4
ISB-46-U	4 x 6	ISB-48-U	4 x 8
ISB-410-U	4 x 10	ISB-412-U	4 x 12
ISB-414-U	4 x 14	ISB-66-U	6 x 6
ISB-68-U	6 x 8	ISB-88-U	8 x 8

- UL approved



Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915
or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970



Wireway Accessories

Hatch Duct Mounting Hit

Part Number	Description
DMK-3545-N	Divider Beam 3½-4½
DMK-456-N	Divider Beam 4½-6
DMK-100-25	Wall Mount 2½"
DMK-100-04	Wall Mount 4", 6"

Wire Support Hit

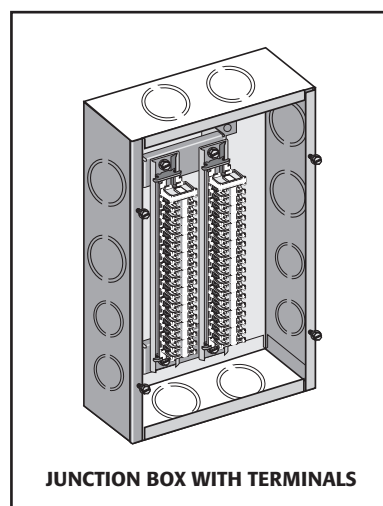
Part Number	Description
WSK-04-N	4"
WSK-06-N	6"
WSK-08-N	8"
WSK-10-N	10"
WSK-12-N	12"
WSK-14-N	14"

Junction Boxes (with knockouts and terminals)

Part Number	Size inches	Depth & Capacity inches • wire count	Standard Packaging
JBX40	14 x 8½	3¼ • 40 wires	1
JBX80	24 x 8½	3¼ • 80 wires	1
JBX108	36 x 8½	3¼ • 108 wires	1

Junction Box Components

Part Number	Description	Standard Packaging*
0924	Terminal block	100
67	Zinc-plated track	3' lengths



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FAX Order Form

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FAX ORDER FORM

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**ORDER FORM MASTER
PLEASE USE
A PHOTOCOPY**

CED accepts Mastercard, Visa and American Express



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3330 E. 29th Street • Long Beach, CA 90806-2323
CED Eastern: 866-253-2915 860-256-2211 Fax 860-290-8970
15 Commerce Way • South Windsor, CT 06074-1152

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**ORDER FORM MASTER
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Return Policy Important Information

In case of damage, shortage, and/or incorrect shipment

Breakage or Damage

Freight, Express or non-CED truck delivery

Note: According to the contract terms and conditions of the Carrier, the responsibility of the Shipper ends at the time and place of shipment. The Carrier then assumes full responsibility for the shipment.

1. Whenever possible, note the damaged items on the freight bill before signing. Notify the local agent of the transport company immediately.
2. Hold all damaged goods with container and packing for inspection of the examining agent. Do not return any damaged goods prior to inspection and authorization of the transport company.
3. File appropriate claim against transport company. Substantiate claim by examining agent's report. A certified copy of CED Elevator Supply Division invoice will be available upon request.
4. Contact CED Elevator Supply Division regarding your requirements for replacement material.

Federal Express/UPS shipments

1. Contact local FedEx or UPS office regarding damage and insurance claim.
2. Retain container and packing for inspection purposes.
3. Each FedEx/UPS office has a different method of handling claims and will advise you of their procedures.
4. Contact CED Elevator Supply Division regarding your requirements for replacement material.

Shortages

1. Check for pack slip notations; shortage may have been due to back order or split shipment.
2. Recheck package, particularly for small items. Ascertain that items were not removed by personnel prior to complete unpacking and checking.
3. Notify CED Elevator Supply Division immediately by fax; provide packing slip number slip number and details of shortage.

Incorrect Shipment

1. If all material received does not correspond with your order, notify CED Elevator Supply Division immediately; provide packing slip number and details of problem with shipment.
2. Hold incorrect material until return shipping instructions are received.

Returns

Do not return any items, whether damaged, incorrect, or excess material until complete return shipping instructions are received from CED Elevator Supply Division!

Return for Credit Policy

1. Merchandise must have a "Return Authorization Number."
2. "Returns" must be identified by CED Elevator Supply Division invoice number or packing slip number.
3. No material can be accepted for return after 90 days from date of sale.
4. "Special" or modified material is not eligible for return.
5. Restocking charges, where applicable, will be deducted from credit memo.
6. All return material is subject to incoming inspection and must be in original carton.
7. Original carton shall not be used as shipping carton.
8. Acceptance of return material is at the sole discretion of CED Elevator Supply Division.

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Quick Reference — Frequently Ordered Items

[illegible]

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