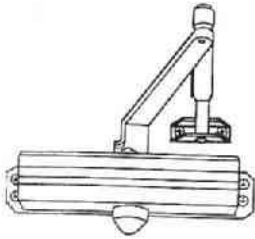


## • DOOR CLOSERS

### DOOR CLOSERS 1600 SERIES

For Interior and Exterior Doors.

Available in the following finishes: AL (Aluminum) and 313 (Dark Amber) Three-way mounting: Regular, Parallel and Top Jamb Mount. Packed 6 per case.



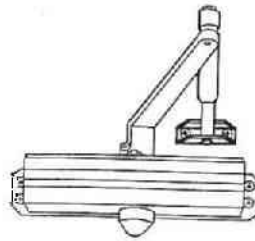
190<sup>00</sup>

Code	Finish	Function
NO1603BC-690	Dark Amber	Backcheck
NO1603BC-689	Aluminum	Backcheck
NO1604BC-690	Dark Amber	Backcheck
NO1604BC-689	Aluminum	Backcheck
NO1605BC-690	Dark Amber	Backcheck
NO1605BC-689	Aluminum	Backcheck

**BACKCHECK** cushions and prevents the door from being slammed into the opposing wall or other obstacles. It is recommended for high wind areas, storefronts, or glass/aluminum doors with display cases or windows next to it. The user can regulate how far the door will go, and control the force of the opening.

**HOLD OPEN** lets the door remain open without the assistance of wedges or other implements.

218<sup>00</sup>



NO1603BCH-690	Dark Amber	Hold Open
NO1603BCH-689	Aluminum	Hold Open
NO1604BCH-690	Dark Amber	Hold Open
NO1604BCH-689	Aluminum	Hold Open
NO1605BCH-690	Dark Amber	Hold Open
NO1605BCH-689	Aluminum	Hold Open

### 1601 ADA SERIES CLOSERS

The series 1601/1601BF door closers combine rugged durability, optimum control of swinging doors and a complete range of spring power adjustment. Hydraulic control and spring power adjustments are easily made right at the door.

Together, these features help achieve the opening force requirements of the American with Disabilities Act (ADA), ANSI 117.1 National Handicapped Codes, as well as the industry's most demanding performance criteria, ANSI 156.4-Grade 1.

190<sup>00</sup>

P/N	Finish	Function
NO1601-689	Aluminum	Non-handed
NO1601-690	Dark Amber	Non-handed
NO1601BF-689	Aluminum	Barrier Free
NO1601BF-690	Dark Amber	Barrier Free

221<sup>00</sup>

NO1601BFDA-689	Aluminum	Delayed Action
NO1601BFDA-690	Dark Amber	Delayed Action

### SERIES 9300 DOOR CLOSERS

Durable, economically priced door closer. Designed for commercial exterior and interior doors such as storefront and industrial applications.

- Bi-Packed: Regular arm or top jamb installation
- Non-Handed



140<sup>00</sup>

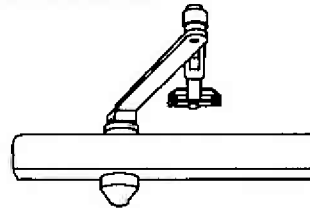
NO9303BC-689	Aluminum	Reg. Arm
NO9303BC-690	Dark Amber	Reg. Arm
NO9304BC-689	Aluminum	Reg. Arm
NO9304BC-690	Dark Amber	Reg. Arm

### SERIES 8301 SLIM STYLE COVER

Power adjust closer-adjustable sizes 2 thru 6 or 1 thru 4. Heavy duty full feature multi-size commercial door closer for use in office buildings, shopping centers and other commercial buildings.

- Non-handed
- Tri-Style: installs regular, parallel arm or top jamb
- Adjustable backcheck standard
- UL Listed

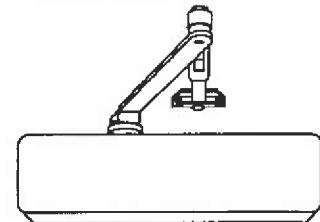
262<sup>00</sup>



P/N	Finish	Function
NO8301-689	Aluminum	Non-handed
NO8301BF-689	Aluminum	Barrier Free
NO8301-690	Dark Amber	Non-handed
NO8301BF-690	Dark Amber	Barrier Free

### SERIES 8501 FULL MOLDED COVER

Same features as 8301



269<sup>00</sup>

P/N	Finish	Function
NO8501-689	Aluminum	Non-handed
NO8501BF-689	Aluminum	Barrier Free
NO8501-690	Dark Amber	Non-handed
NO8501BF-690	Dark Amber	Barrier Free

297<sup>00</sup>

P/N	Finish	Function
NO8501H-689	Aluminum	Hold Open
NO8501H-690	Dark Amber	Hold Open

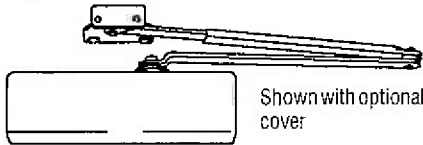
656<sup>00</sup>

NO8501M-605	Polished Brass	Metal Cover
NO8501M-625	Polished Chrome	Metal Cover

**SERIES 1700 DOOR CLOSERS**

Sized closer intended for use on interior doors of apartments, hotels and other light duty commercial buildings.

- Tri-Style Installation: Installs regular arm, parallel arm or top jamb from standard carton.
- Non-Handed



Shown with optional cover

**157<sup>00</sup>**

NO1703BC-COV-689	Aluminum	w/Cover
NO1704BC-COV-689	Aluminum	w/Cover

**SERIES 78-B/F TRADITIONAL SURFACE CLOSERS**

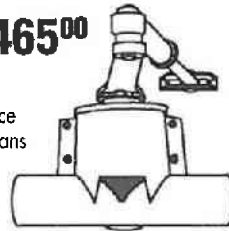
Adjustable spring power-clock coil spring adjusts through a wide range of power. Power ranges B thru D or E and F.

Field Reversible-Hand of closer can be field converted.



May be adjusted to conform to opening force requirements of Americans with Disabilities Act (A.D.A.).

**465<sup>00</sup>**

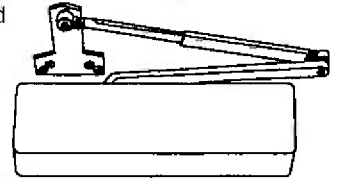


P/N	Finish	Function
NO78-B/DRA-LH-689	Aluminum	Reg. Arm
NO78-B/DRA-RH-689	Aluminum	Reg. Arm
NO78-E/FRA-LH-689	Aluminum	Reg. Arm
NO78-E/FRA-RH-689	Aluminum	Reg. Arm

**SERIES 7500 MULTI-SIZE CLOSERS**

Power adjust closer-adjustable sizes 2 thru 6 or 1 thru 4. Heaviest duty multi-size closer. Recommended for use in high traffic, heavy use door openings in schools, hospitals and institutional buildings.

- Non-handed
- UL Listed



**348<sup>00</sup>**

P/N	Finish	Function
NO7500-689	Aluminum	Non-handed
NO7500-690	Dark Amber	Non-handed

**376<sup>00</sup>**

P/N	Finish	Function
NO7500H-689	Aluminum	Hold Open
NO7500H-690	Dark Amber	Hold Open

**POWERMATIC® DOOR CONTROLS**

**Features**

• **Choice of Activation**

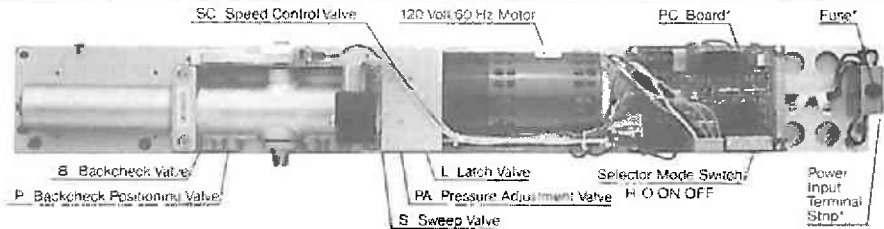
- Selective-6600 Series (requires switch or scanner activation).
- Automatic/Push or Pull -6700 Series integral switch senses door motion and activates unit. External switch or scanner may also be used to activate unit.

• **Choice of Function**

- Power Assist Function "PAS" suffix
- Reduced Door Opening Resistance
- Adjustable Motor Assist Time -(0 to 30 seconds, 5 second increments).
- "Selector Mode Switch" -3 Positions "OFF" "ON" , "H/O" (Hold Open)
- Full spring power closing force.
- Power Operator Function "POR" suffix .
- Powered Door Opening' .
- Adjustable Door Opening Speed
- Adjustable 'Temporary Hold Open' time (0 to 30 seconds, 5 second Increments).
- "Selector Mode Switch" -3 Position "OFF", "ON", "H/O" (Hold Open)
- Full spring power closing force.

• **Choice of Application**

- Hinge Side Application .
- Rigid Arm and Slide Track
- Double Egress Arm and Slide Track
- Stop Side Application
- Standard Duty Double Lever Arm (To 110° or 111° to 180°) .
- Heavy Duty Double Lever Arm with spring buffer arm assembly (0° to 4-3/4" (0 to 121 mm) or 4-13/16" to 7-3/8" (122 to 187mm)] reveal range



• **All PowerMatic® Door Controls**

- Full door closing power; adjusted to a maximum of 15 lbf. measured at 1" (25mm) from the door's edge, is available in the closing cycle. Consult factory if greater door closing power is required.
- Adjustable Sweep Closing Speed
- Adjustable Latch Closing Speed
- Adjustable Backcheck in Opening Cycle
- Adjustable Backcheck Positioning in Opening Cycle

• **Choice of peripheral components:**

- Wall Switches/Frame Switch
- Microwave/Retro-Reflective Scanners
- Radio Frequency Transmitter -Receiver
- Special "Vestibule Function" wiring option provided standard. May be used to synchronize the powered-up function of two consecutive doors in a pedestrian traffic path with the actuation of a single switch at either of the two doors.
- Special warning mats or guard rails are not required.

• **"Watch Dog" Feature**

If door is prevented from opening after the power cycle has been activated, the pump and motor will shut off after seven (7) seconds, preventing damage to the PowerMatic® unit. Upon closing of the door the unit will simply reset, waiting for the next initiation.

**Requirements**

• **Handed**

- All closer assemblies are handed and are not field reversible. Closer assemblies for use with Rigid or Double Egress Arms are not interchangeable with closer assemblies for use with double lever arms.

• **Voltage**

- Input voltage 120VAC, 60 Hz. Motor and solenoid operate on 120 volts. 24VDC (Max. 500 Amps) output to operate No. 663 or No. 664 scanners, relays, etc.
- "Blind Rivet Nuts", by others, are recommended for aluminum or under reinforced frames.