4000 SERIES
LOW ENERGY DOOR OPERATOR

SARGENT

MPower 4000 SERIES
LOW ENERGY DOOR OPERATOR

Complies with ADA Accessibility Guidelines

Assa Abloy Group company
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The SARGENT MPower is a “low energy” power door operator designed to automatically open and close doors with a lower energy opening force.

The following chart can be used as a guide for suitability of the door operator to various applications:

<table>
<thead>
<tr>
<th>Operator Type</th>
<th>Common Applications</th>
<th>Safety Equipment Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Energy</td>
<td>Executive Offices, ADA Dorm Rooms, ADA Hotel Rooms, Retirement Homes, Educational or Assisted Living Facilities, Office/Warehouse Corridor Doors, ADA Auxiliary Entrances, ADA Accessible Restrooms, Fire Doors, Smoke Ventilation Doors</td>
<td>Signage</td>
</tr>
<tr>
<td>High Energy By Others</td>
<td>Hospital Emergency Entrances &amp; Operating Rooms, Airport Entrances, Large Office Building or Dept. Store Entrances</td>
<td>Guide Rails, Safety Mats, Sensors &amp; Signage</td>
</tr>
</tbody>
</table>

The Americans with Disabilities Act (ADA) is a law administered by the U.S. Department of Justice. Its' guidelines under ADA Regulation for Title III are detailed on the ADA website: www.ada.gov.

The SARGENT MPower fully complies with ADA and ANSI A156.19 requirements. It functions using an A/C motor and hydraulic pump to activate a heavy-duty hydraulic door closer controlled by an Electronic Limit Switch (ELS) circuit board that limits the degree of door swing. The MPower is your best choice in a low energy power door operator.

Features include:

• Ease of installation and setup
  • Simple instructions
  • Uses push-button settings for door open and door close positions

• Application versatility and ease of adjustment
  • Field-reversible (handed unit available)
  • Push side or pull side mounting units available
  • Power Operator function can be configured during installation
  • Interfaces with electric hardware and integrates with access control systems

• Operates as mechanical surface closer during close cycles or if power is turned off
  • Critical for fire rated doors
  • Spring force provides the feel of a normal manual door closer
  • Door can be opened manually if desired

• Operation startup options
  • Wall switches
  • Radio frequency device
  • Push and Go

• Hold Open options
  • 0-30 seconds (5 seconds minimum required for ADA and ANSI A156.19)
  • Choice of indefinite hold open features

• Obstruction Detection
  • Door closes if it hits an obstruction while opening
  • Door re-opens once if it hits an obstruction while closing
Field Reversible Unit shown (without cover)

Functions

- Heavy Duty series door closer
  - Adjustable spring power
  - Backcheck valve
  - Backcheck Position valve
  - Door Speed valve
  - Latch Speed valve
  - Speed Control valve
  - Pressure Adjustment valve
- Field Reversible or handed units available
  (Drop Applications require handed unit)
- Push Side or Pull Side applications
- Power Assist selector switch
- Push and Go selector switch
- Open/Close Obstruction Detection
- Motor startup delay adjustment
- Vestibule Function Delay adjustment
  (For sequencing two or more units)
- Door Hold Open Delay adjustment
- Single pole double throw (SPDT) relay output
- SPDT Relay Output time adjustment
- SPDT Alarm Output
- Blow Open Function for smoke ventilation
- Infinite Hold Open function
- Presence Detector input
- 24 VDC (unregulated) @ 500 mA output
- Selector Mode Switch (3 position)
  - OFF – Turns unit off
  - ON – Turns unit on
  - HOLD OPEN – Activates the unit to
    the hold open position indefinitely

Electrical Data

- Power Input: 120 VAC, 60 Hz (+10%, -15%)
- Current Draw 2 amp
- Auxiliary Output 24 VDC (unregulated) @ 500 mA
- SPDT relay output for controlling electric strikes or electric locks
  not to exceed 5 amp @ 24 VDC
- External 24 VDC regulated and filtered power supply needed for
  56-latch retraction applications

Certifications

- UL and cUL for use on fire and smoke barrier doors
- Meets requirements for UL10C and UBC 7.2 for positive pressure
- 2-year warranty (as per current price list, terms and conditions at
time of purchase)
- Americans with Disabilities Act (ADA)
- BHMA 156.19 for Low Energy and Power Assist operated doors

### Low Energy and High Energy Door Operator Summary

<table>
<thead>
<tr>
<th>Operator Type</th>
<th>Common Applications</th>
<th>Safety Equipment Required</th>
<th>Door Width* / Weight</th>
<th>Opening Speed (Seconds) Max</th>
<th>Hold Open Delay (Seconds) Min**</th>
<th>Closing Speed (Seconds) Min</th>
<th>Complete Cycle (Seconds) Min</th>
<th>Max. Force to Stop Door</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Energy</td>
<td>Executive Offices, ADA Dorm Rooms, ADA Hotel Rooms, Retirement Homes, Educational or Assisted Living Facilities, Office/Warehouse Corridor Doors, ADA Auxiliary Entrances, ADA Accessible Bathrooms, Fire Doors, Smoke Ventilation Doors</td>
<td>Signage</td>
<td>36&quot;/125lbs (91cm / 56kg)</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>15</td>
<td>15lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>48&quot;/200lbs (122cm / 91kg)</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>High Energy</td>
<td>(HIGH TRAFFIC) Hospital Emergency Entrances &amp; Operating Rooms, Airport Entrances, Large Office Building or Dept. Store Entrances</td>
<td>Guide Rails, Safety Mats, Sensors &amp; Signage</td>
<td>36&quot;/125lbs (91cm / 56kg)</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>11.5</td>
<td>40lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>48&quot;/125lbs (122cm / 91kg)</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>

Note: *Minimum and maximum door width for single door, hung on butt hinges

**Maximum delay is 30 seconds
## Typical Door Traffic Categories

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>DAILY AVERAGE</th>
<th>YEARLY AVERAGE</th>
<th>USAGE</th>
<th>OPERATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive Office</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADA Dorm Room</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADA Hotel or Retirement Home Room</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assisted Living Common Area Door</td>
<td>Up to 100</td>
<td>Up to 22,000</td>
<td>Low</td>
<td>Low Energy</td>
</tr>
<tr>
<td>Office/Warehouse Door</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADA Auxiliary Entrance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADA Accessible Restroom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government/Public Restroom</td>
<td>300</td>
<td>108,000</td>
<td>Moderate</td>
<td></td>
</tr>
<tr>
<td>Hospital Corridor Door</td>
<td>600</td>
<td>220,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airport Entrance</td>
<td>3,000*</td>
<td>1,100,000</td>
<td>High</td>
<td>High Energy</td>
</tr>
<tr>
<td>Large Office Building Entrance</td>
<td>4,000*</td>
<td>1,200,000</td>
<td></td>
<td>By Others</td>
</tr>
<tr>
<td>Large Dept. Store Entrance</td>
<td>5,000*</td>
<td>1,500,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Represents ‘powered’ cycles

**Note:** The above applications and data are examples for guidance only. Contact your ESSEX Sales Representative or SARGENT Technical Consultant to confirm the suitability of your specification and system design.
4060/4067
HINGE (PULL) SIDE OF DOOR
• Spring buffered stop assembly in slide track

4060 RIGID ARM AND SLIDE TRACK
• 85° to 110° templated door openings in 5° increments
• 1/8” (3mm) maximum frame reveal

4067 DOUBLE EGRESS ARM AND SLIDE TRACK
• From 1/8” to 3” (3 to 76mm) frame reveal
• Specify hand when ordering

An auxiliary stop is suggested where severe conditions exist.

4051/4052
STOP (PUSH) SIDE OF DOOR

STANDARD DUTY DOUBLE LEVER ARM
• Frame reveals 2-3/4” to 7” (70 to 178mm)
• An auxiliary door stop is required for these applications.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>DOOR OPENING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4051</td>
<td>Up to 110°</td>
</tr>
<tr>
<td>4052</td>
<td>From 110° to 180°</td>
</tr>
</tbody>
</table>

Note: Contact factory for use on doors exceeding 250lbs (113kg)
**SARGENT**

Low Energy Door Operator

Standard Applications

---

* Handed unit dimension shown. For Field Reversible unit add 3/8" (9mm).

* If dimension “A” less than 10” (254mm) order handed unit with CL prefix.

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* Handed unit dimension shown. For Field Reversible unit add 3/8" (9mm).

* If dimension “A” less than 5” (127mm) use 4001D for 4051, 4002D for 4052 drop bracket (Drop Application) see page 6 and handed unit with CL prefix.

* If dimension “A” less than 10” (254mm) order handed unit with CL prefix.
4051 with 4001D Drop Bracket
STOP (PUSH) SIDE OF DOOR – UP TO 110° DOOR OPENING
STANDARD DUTY DOUBLE LEVER ARM
• Frame reveals 2-3/4" to 7" (70 to 178mm)
• 110° maximum door opening. See 4152 for openings to 180°
• Auxiliary door stop is required for this application
• Minimum door width is 33" (838mm)

4052 with 4002D Drop Bracket Kit
STOP (PUSH) SIDE OF DOOR – OVER 110° TO 180° DOOR OPENING
STANDARD DUTY DOUBLE LEVER ARM
• Frame reveals 2-3/4" to 7" (70 to 178mm)
• Over 110° to 180°
• Auxiliary door stop is required for this application
• Minimum door width is 31" (787mm)

NOTE: Drop application for less than 7" (178mm) minimum ceiling clearance requires handed unit – Order CL prefix (see next page)
Drop application for use with SARGENT overhead stop can use non-handed or handed unit.

NOTE: Contact factory for use on doors exceeding 250lbs. (113kg)
4051
110° Maximum Door Opening
Minimum Door Width 33" (838mm)

4052
Over 110° to 180° Door Opening
Minimum Door Width 31" (787mm)

* Handed unit dimension shown. For Field Reversible unit add 3/8" (9mm).
If “A” less than 7" (178mm) handed unit with CL-prefix is required.
WITH MAGNETIC LOCK

**Opening Description:** Fail Safe ADA
Opening - Magnetic Lock & Door Operator

**Application**
Non-Fire Rated Glass Door - Interior or Exterior Office or Main Entrance Openings

**Operation**
- Lock or unlock system by a key control switch at all times
- Free ingress & egress using the door operator or manually when unlocked
- Outside door switch will be inactive denying ingress other than by card when locked
- To exit, inside door switch will unlock magnetic lock and open the door or manually push bar to exit
- Door operator acts as standard door closer when entering or exiting manually

**Material**
- Door Operator
- Electromagnetic Lock
- Electric Hinge
- Mechanical Touch Bar with Switch
- 2 Door Switches
- Maintained Key Switch
- Card Reader

ELECTRIC STRIKES

**Opening Description:** Fail Secure ADA
Opening – Double Electric Strike & Door Operators on Pair of Doors

**Application**
Interior, Non-Fire Rated Wood or Metal Doors – Corridor or Emergency Room Openings

**Operation**
- Doors are to be closed and latched at all times
- Key Switch activates and deactivates door switches to signal door operators
- Active door switch will energize the electric strike and automatically open doors
- Access manually from the push side only when door switches are inactive
- Door operators will act as standard door closers when door switches are inactive

**Material**
- 2 Door Operators
- Double Electric Strike
- 2 Surface Vertical Rod Exit Devices
- 2 Door Switches
- Maintained Key Switch

VESTIBULE

**Opening Description:** Vestibule – Two Single Doors & Operators

**Application**
Interior or Exterior Non-Rated Glass, Wood or Metal Doors – Hospitals, College Dorms, Hotels and other Public Buildings

**Operation**
- Doors are closed but not latched at all times when not activated
- 2 door switches outside of vestibule operate closest door first, then second door
- 2 door switches inside vestibule operate closest door only

**Material**
- 2 Door Operators
- 4 Door Switches

VESTIBULE (TWO PAIR)

**Opening Description:** Vestibule – Two Pairs of Doors & Operators

**Application**
Exterior Non-Rated Glass Doors – Hospitals, College Dorms, Large Hotels, Convention Centers and other Public Buildings

**Operation**
- Doors are closed but not latched at all times when not activated
- 2 door switches outside of vestibule operate closest door first then other door
- 2 door switches inside vestibule operate closest door only

**Material**
- 4 Door Operators
- 4 Door Switches
WITH ACCESS CONTROL FOR ENTRY

Opening Description: Fail Secure ADA Opening – Electric Strike & Door Operator

Application
Rated or Non-Fire Rated Metal Door – Interior or Exterior Office, Main Entrance or Stairwell Openings

Operation
• Activate or deactivate system by a key control switch
• When outside, door switch is inactive, ingress will be by card only
• Inside door switch will unlock and open the door automatically
• Push exit device bar to exit at all times
• Door operator acts as standard door closer when entering or exiting manually
• Recommend: HES Electric Strikes

Material
• Door Operator
• Mortise Exit Device
• 2 Door Switches
• Maintained Key Switch
• Card Reader
• Electric Strike

SMOKE VENTILATION
Opening Description: Fail Secure “Blow Open” Opening – Latch Retraction & Door Operators on Pair of Doors

Application
Exterior Metal Doors – Emergency Ventilation Type Openings

Operation
• Doors are to be closed and latched at all times
• Fire Alarm system sends signal to activate door operators and latch retraction devices
• Doors open when activated and stay open until loss of power or until fire alarm is reset
• Door operators act as standard door closers during normal use

Material
• 2 Door Operators
• 2 56- Latch Retraction Vertical Rod Exit Devices
• 1 - 3510 24 VDC regulated and filtered power supply
• 2 Electric Hinges

LATCH RETRACTION
Opening Description: Vestibule – Two Single Doors & Operators

Application
Interior or Exterior Rated & Non-Rated Glass, Wood or Metal Doors – Hospitals, College Dorms, Hotels and other Public Buildings

Operation
• Doors are closed and latched at all times
• When activated, latch bolts are retracted and door(s) will automatically open
• 2 door switches outside of vestibule operates closest door first then second door
• 2 door switch inside vestibule operate closest door only
• Recommend: 56- Latch Retraction Exit Devices
• Non-rated devices can be dogged for push/pull operation

Material
• 2 Door Operators
• 2 56- Rim Latch Retraction Exit Devices
• 2 Electric Hinges

MAGNETIC LOCKS (INTERLOCK)
Opening Description: Vestibule Interlock – Two Pairs of Doors & Operators

Application
Interior or Exterior Rated & Non-Rated Glass, Wood or Metal Doors – ICU Rooms at Hospitals, Research Lab’s, Clean Rooms & other Environmentally Controlled Applications

Operation
• Doors are closed and secure by electromagnetic locks
• Only one pair of doors may be open at a time before the opposite doors can open
• When activated, magnetic locks unlock and door(s) will automatically open
• Door switch outside of vestibule operates closest pair of doors
• Either door switch in vestibule operates closest pair of doors when all doors are closed

Material
• 4 Door Operators
• 4 Door Switches
• 2 Double Electromagnetic Locks with Door Position Switch
• 4 Electric Hinges
• 4 Non-latching Touch Bars with Switch
• 1 - 3560 24 VDC regulated and filtered power
Adjustment and Terminal Locations

Field Reversible Unit shown (without cover)

ELS - Electronic Limit Switch

Used for open/closed door setting, push and go selection, obstruction timing and Power Operator/Power Assist Function.

- WHT Button - Used for Door Open setting
- BLK Button - Used for Door Closed setting

Dip Switch Settings
1 - Obstruction Detection Delay
2 - Obstruction Detection Delay
3 - Activation Mode (Push and Go)
4 - Power Assist/Power Operator Mode

Control Board

Dip Switch and Timer Adjustments

SW1 DIP Switches
1 - P/A - Door Operator Function Switch
   OFF position selects Operator Mode.
   ON position selects the Assist Mode.
2 - A/D - Alarm Delay Timer
   OFF = 30 second delay. ON = 60 second delay. Used with terminal JP1-1
3 - Not used - OFF
4 - Not used - OFF

SW2
- Motor Delay - Delays motor start-up to allow unlocking of electric hardware.

SW3
- Solenoid Delay - sets the length of time that the relay will stay energized or de-energized. Used for JP4-3, 4 and 5 relay. Allows electric hardware to stay energized long enough for automatic door opening.

SW4
- Vestibule Delay - Sets the length of time between receipt of the IN Vestibule signal and the motor start-up.

SW5
- Hold Open Delay/Assist Delay
  - Sets length of time door holds open at the fully open position for operator function. Sets length of time motor and pump assembly will operate to reduce opening force of door for assist function. When time elapses the door will operate as a standard door closer.
Control Board JP-1 Terminal: (Input Controls) - wall switches, motions sensors, 2nd M-Power, etc.

1 - O/O - Override Open - Input for blow open or smoke ventilation application - Upon initiation of a closed signal from a fire/smoke alarm panel, the door will open and remain open until signal is terminated. Use with any JP-1 ground.

2 - RES 1 - Not used

3 - AUX2 - Auxiliary Two - This is one of two secondary initiating switch input contacts (JP-10 is the other.) Use with any JP-1 ground to initiate operation.

4 - GND - Ground

5 - INV - IN Vestibule - Used for vestibule function. This contact must be connected to the JP-1-6 terminal from another unit to receive an initiating signal. Use this contact with any JP-1 ground.

6 - OUTV - Out Vestibule - Used for vestibule function - This contact must be connected to terminal JP-5 of another unit to send an initiating signal. Use this contact with any JP-1 ground.

7 - GND - Ground

8 - RFT - Toggle (Maintained Hold Open) This input can be used with any normally open switch. The first initiation of this contact will open door and hold it open. A second initiation of this contact will release and close the door. Use with any JP-1 ground.

9 - GND - Ground

10 - AUX2 - Auxiliary Two - Same as JP1-3 above.

11 - GND - Ground

12 - PDET - Presence Detector - Permits wiring of a sensor to prevent a closed door from opening or a door that is fully open from closing. Use with any JP-1 ground.

13 - GND - Ground

14 - AUX1 - Auxiliary One - Primary initiating switch contact. Initiates door power cycle. For vestibule function, the switch on the initiating side of door is connected to this terminal. Use with any JP-1 ground.

JP-4 Terminal: (Output Controls) - electric strikes, latch retraction exit devices, mag locks, etc.

1 - GND - Ground

2 - + 24VDC

3 - NO1 - Relay Contact - Normally open relay dry contact that is switched when any auxiliary inputs are initiated. Delay can be set for up to 12 seconds. Use with JP4-4 CO-1.

4 - CO1 - Relay Contact - Common relay contact for use with terminals JP4-3 and JP4-5.

5 - NC1 - Relay Contact - Normally closed relay contact that is switched when any auxiliary inputs are initiated. Delay can be set for up to 12 seconds. Use with JP4-4 CO1.

6 - NO2 - Alarm Delay - Normally open dry relay contact that is switched when any auxiliary inputs are initiated. The relay will stay switched for 30 or 60 seconds (selected by dip switch SW1-2 A/D).

7 - CO2 - Alarm Delay - Common contact for use with terminals JP4-6 and JP4-8.

8 - NC2 - Alarm Delay - Normally closed dry contact that is switched when any auxiliary inputs are initiated. The relay will stay switched for 30 or 60 seconds (selected by dip switch SW1-2 A/D).
63-4205 Control Board

63-4179 Repair kit ELS Board

63-0709 Security Plate - Conceals the ON/OFF/HOLD OPEN switch to deter tampering, supplied with operator

63-4188 Operational Signs (kit contains 7 signs)
- Supplied with operator

EASY OPEN DOOR 
& ACTIVATE SWITCH THEN OPEN LOCK
2 per

EASY OPEN DOOR
PUSH TO OPERATE
1 per

EASY OPEN DOOR
FULL TO OPERATE
1 per

EASY OPEN DOOR
POWER ASSISTED
2 per

PUSH TO OPERATE
1 per

PULL TO OPERATE
1 per

AUTOMATIC CAUTION DOOR
2 per

Wall Switches for Single and Double Gang Boxes

- Durable, N.O. SPDT momentary action switch, Form C, 4 amps@24VDC
- Dimensions: 4296, 96H, 96HP
  Face plate 4-5/8" (117mm) wide x 4-1/2" (114mm) high
- Dimensions: 4297HP
  Face plate 1-3/4" (45mm) wide x 6-11/32" (161mm) high

- Dimensions: 4298
  Face plate 3" (76mm) wide x 4-1/2" (114mm) high
- DBL wall box required for 4296, 4296H, 4296HP
- SGL wall box required for 4297HP, 4298
- Concealed socket mounting screws

4296B 4296H 4296HP

4297 4298

4315 Radio Control Receiver Assembly

4310 Radio Control Transmitter

4313 Radio Control Transmitter

- Easy to install
- For use with 4313 or 4310
- 24VAC/DC
- 68 billion possible codes
- 315MHz

- Compact
- For use with 4315
- Single Button Control
- 650 FT (198m) Operating Range, open air
- 68 billion possible codes
- 315MHz
- 12 VDC alkaline battery included

- Compact
- Allows wireless push plate application when used with 4315
- 150 FT (46m) operating range
- Must mount in plastic outlet box (by others)
- Push plate sold separately, see above
- 315MHz
Body Pump and Motor Assemblies

63-4162 (4060)
63-4165 (4051, 4052)
Field Reversible Body Pump and Motor Assembly

63-4160 (4060, 4067)
63-4163 (4051, 4052)
Right Hand Body Pump and Motor Assembly

63-4161 (4060, 4067)
63-4164 (4051, 4052)
Left Hand Body Pump and Motor Assembly

Arm and Track Assemblies

4060
63-4168 - Arm and Track Assembly
63-4167 - Arm Assembly
63-4166 - Track Assembly

4051
63-4171 - Arm Assembly
63-4170 - Main Arm & Rod
63-4169 - Foot Assembly

4052
63-4173 - Arm Assembly
63-4172 - Main Arm & Rod
63-4169 - Foot Assembly

4067
63-4175 - Arm and Track Assembly (LH)
63-4177 - Arm and Track Assembly (RH)
63-4174 - Arm Assembly (LH)
63-4176 - Arm Assembly (RH)
63-4166 - Track Assembly
2.0 Low Energy Door Operators

A. Low energy door operators shall be MPower 4000™ Series by SARGENT Manufacturing Company, New Haven, CT.
B. Low energy door operators shall meet ANSI/BHMA A156.19 requirements.
C. Low energy door operators shall meet UL, cUL, UL10C, and UL10B standards for use on fire doors.
D. Low energy door operators shall have the following adjustments:
   1. Motor assist shall be adjustable from 0 to 30 seconds in 5 second increments.
   2. Door control shall be adjustable to provide compliance with the requirements of the Americans with Disabilities Act (ADA).
   3. Door closing force and backcheck shall be adjustable.
   4. Motor start up delay.
   5. Vestibule interface delay.
   6. Electric lock delay.
   7. Door hold open delay up to 30 seconds.
E. Operator units shall provide conventional door closer opening and closing forces unless the power operator motor is activated by an initiating device.
F. Operator units shall have a three position selector mode switch that shall permit units to be switched "ON" to monitor for function activation, "HO" for indefinite hold open function, or "OFF" which shall deactivate all control functions but will allow standard door operation by means of the internal mechanical closer.
G. Operators shall have push and go function to activate power operator or power assist functions.
H. Operator units shall have door closer assembly with adjustable spring size, backcheck valve, sweep valve, latch valve, speed control valve, and pressure adjustment valve to control door closing.
I. Operator units shall have inputs for smoke ventilation doors, which allow doors to power open upon fire alarm activation and hold open indefinitely or until fire alarm is reset.
J. Operator units shall have a presence detector input to prevent a closed door from opening or a door that is fully opened from closing.
K. Operator units shall have a hold open toggle input to allow remote activation for indefinite hold open; door shall close the second time the input is activated.
L. Operator units shall have vestibule inputs to allow sequencing operation of two units.
M. Operators shall have a SPDT relay for interfacing with latching or locking devices.
How To Order

<table>
<thead>
<tr>
<th>Specify</th>
<th>Note</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>Number Ordered</td>
<td>1 Qty.</td>
</tr>
<tr>
<td>Prefix</td>
<td>Low Ceiling or Handed Units Only</td>
<td>1 Qty. CL-</td>
</tr>
<tr>
<td>Product Series</td>
<td>MPower 40</td>
<td>1 Qty. CL-40</td>
</tr>
<tr>
<td>Application</td>
<td>See Types of Applications</td>
<td>1 Qty. CL-4060</td>
</tr>
<tr>
<td>Hand</td>
<td>Required for CL - Prefix and 67 Application</td>
<td>1 Qty. CL-4060 R</td>
</tr>
<tr>
<td>Finish</td>
<td>See Finishes</td>
<td>1 Qty. CL-4060 R EN</td>
</tr>
<tr>
<td>Additional Information</td>
<td>Item/Heading Number x Door number</td>
<td>1 Qty. CL-4060 R EN x Item 01 x DR201</td>
</tr>
</tbody>
</table>

Types of Applications

HINGE (PULL) SIDE OF DOOR
60 – Rigid Arm & Slide Track 110° Maximum Door Swing Maximum Reveal 1/8” (3mm)
67 – Double Egress Arm & Slide Track 110° Maximum Door Swing for Reveals 1/8” to 3” (3 to 76mm)
(Specify hand when ordering)

STOP (PUSH) SIDE OF DOOR
51 – Standard Duty Double Lever Arm 110° Maximum Door Swing Reveals 2-3/4” to 6-7/8” (70 to 175mm)
52 - Standard Duty Double Lever Arm 180° Maximum Door Swing Reveals 2-3/4” to 6-7/8” (70 to 175mm)

FINISHES

Product will be sprayed with a combination of waterborne acrylic and polyester powder coat.
Closers will withstand 100 hours of salt spray.

| EN 689 | Sprayed aluminum          |
| EB 690 | Sprayed bronze to match 10B |
| EAB 696| Sprayed brass             |

Note: Door switches and sensors are not included with operator. These items must be ordered separately.
Founded in 1864, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation and replacement applications. The company's customer base includes commercial construction, institutional and industrial markets.

The ASSA ABLOY Group is the world's leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience.