1431 Series

Powerglide® Door Closer
The 1431 line of surface mounted door closers has been engineered to meet the demands of architects and building owners. The 1431 Series is a complete line of closers for interior and exterior doors with quality and flexibility to meet virtually every application.

### Primary Closer Arm Identification Letters

<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>Standard Arm</td>
</tr>
<tr>
<td>H</td>
<td>Hold Open Arm</td>
</tr>
<tr>
<td>F</td>
<td>Fusible Link Hold Open Arm</td>
</tr>
<tr>
<td>Z</td>
<td>Deep Reveal Arm 2-1/8&quot; to 5&quot;</td>
</tr>
<tr>
<td>ZA</td>
<td>Extra Deep Reveal Arm 5-1/8&quot; to 8&quot;</td>
</tr>
<tr>
<td>P</td>
<td>Parallel Arm or Push Side</td>
</tr>
<tr>
<td>S</td>
<td>Arm with Positive Stop</td>
</tr>
<tr>
<td>C</td>
<td>Arm with Positive Cushioned Stop</td>
</tr>
</tbody>
</table>

Note: Often more than one letter is used to describe one type of arm.

### MicroShield® Coating

As part of their promise to provide innovative solutions to their customers, certain ASSA ABLOY Group brands offer the MicroShield® technology, a silver-based antimicrobial coating designed to inhibit the growth of bacteria. MicroShield® is a registered trademark of Yale Security Inc., an ASSA ABLOY Group company.

- Revolutionary finish coating available on all SARGENT product lines, utilizes a silver-based antimicrobial compound from Agion Technologies
- As an integral part of the finish coating, MicroShield® lasts for the life of the hardware
- MicroShield® coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. It is effective against a broad spectrum of bacteria.
- Non-toxic and completely safe. The Agion antimicrobial compound is EPA and NSF approved and FDA listed for use in medical and food preparation equipment.
- Applications: Anywhere there is need for a clean environment (hospitals, laboratories, schools, medical centers, daycare, food processing etc.)

### Underwriters’ Laboratories Listing

All SARGENT Powerglide® Door Closers are listed by the Underwriters’ Laboratories, Inc. as follows:  
“For Self-Closing Doors Without Hold-Open Feature”  
“For Automatic Doors With Hold-Open Arm Embodying Fusible Link Release”  
Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

### On The Cover

- SARGENT 1431 Door Closer with US26 plated O arm and metal cover
General Information
1431 Series Powerglide®

1. Closer Spring Adjustment (not shown)
   - Effects the entire cycle of the door closer movement
   - Used to size closer for application requirements
   - Determines the amount of force with which the door closes and the amount of force required to open the door
   - Adjustable to compensate for door size and draft conditions

2. Backcheck valve
   - At approximately 70° of the open cycle, the Backcheck Valve begins to slow the door’s motion
   - Prevents the door from slamming into the door’s stop
   - Valve is used to control the intensity of the Backcheck
   - Note: A Positive stop is required. Backcheck cannot be used as a stop

3. Delayed action valve (Optional)
   - Holds the door in the open position momentarily
   - 20 second minimum hold open delay
   - The feature is available for all applications and arms
   - Beneficial when moving carts or objects thru door opening and ADA applications

4. Closing speed valve
   - Controls how fast the door closes to approximately 8” from the closed position

5. Latching speed valve
   - Controls the speed of the door during the final 8” of door swing
   - The force the door closes with is controlled by the Closer spring
   - Note: This adjustment is critical for door latching

ANSI Standards

<table>
<thead>
<tr>
<th>ARM</th>
<th>TYPE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>CO2011</td>
<td>P9</td>
<td>CO2101</td>
</tr>
<tr>
<td>P9</td>
<td>CO2021</td>
<td>P10</td>
<td>CO2021</td>
</tr>
<tr>
<td>H</td>
<td>CO2051</td>
<td>PS/CP5</td>
<td>CO2021</td>
</tr>
<tr>
<td>PH9</td>
<td>CO2061</td>
<td>CPSH/PSH</td>
<td>CO2061</td>
</tr>
<tr>
<td>F</td>
<td>CO2091</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All are certified ANSI types including options PT4 A, B, D, E, F, G, H

Arm Leverage Adjustment
Closers using “O” or “F” arms have the provision to increase closing power by 15% by adjusting foot pivot

How to Select the Proper Closer

Things to Consider
1. Size and Weight of Door
   The 1431 Door Closer is non-sized so that closing force can be adjusted in the field to accommodate various door sizes and weights.

2. Interior Application
   The standard application is the most efficient in terms of power and control.

3. Exterior Application
   The top jamb, parallel arm application should be used. Exterior doors require greater closing forces because of draft conditions. Always place the closers out of the weather.

4. Degree of Opening
   Proper arm and position on the door is most important to permit the door to open far enough to allow adequate traffic flow.

5. Function
   Closers are available with hold-open, positive stop or fusible link hold-open arms.

6. Special Condition
   Consult factory when special hinges, overhead holders or other specialized hardware is used.
Features and Benefits
1431 Series Powerglide®

The 1431 Series complies with ADA for reduced open forces

Features
- Certified ANSI/BHMA A156.4 Grade 1
- Conforms to UL10C and UBC for positive pressure fire test
- UL Listed and cUL Listed to Canadian Safety Standards listed for use on fire doors
- Ten year warranty
- User friendly versatile mounting applications permit standard, top jamb, parallel and track installations
- Self sticking templates supplied for most applications
- Adjustable spring power allows 1431 closers a size range of 1 through 6. They are adjusted to size 3 before leaving the factory
- One door closer body for all applications. All 1431 are non-handed.
- Meets ADA requirements in all applications, except Push Side Track application
- Heat treated full rack and pinion for high strength & wear resistance
- Heavy duty one piece high silicon content aluminum alloy body provides corrosion resistance, superior strength and wear resistance
- 1/2’ arm engagement over a 7/16 square spindle ensures a wear-resistant tight joint

Heavy Duty Construction
- Machine Screws and self tapping screws provided for closer and arm
- In addition, wood screws supplied when installed on wood doors with through bolts
- Separate brass low sensitivity control valves offer ability to separately regulate door speed, latching, backcheck and optional delayed action
- All valves are captured to prevent accidental removal, adjustable with an 1/8” Allen wrench
- Adjustable backcheck protects the door and hardware from damage during the opening cycle
- Adjustable delayed action (optional) permits easy access for physically impaired individuals

Full Complement of Arm Types
- Standard and parallel arms
- Push and pull track arms
- Heavy duty forged steel arms are finely finished and interchangeable between SARGENT 281 and 1431, and 351 Series. The cold formed arms (RO/RP9) are unique to the 1431 series and not interchangeable with other SARGENT closers.

Innovation
- SARGENT’s revolutionary MicroShield® available. This antimicrobial silver-based finish coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. EPA and NSF approved and FDA listed.

Fasteners
- 1-1/2” diameter piston for superior door control
- Standard pressure relief valves for both opening and closing cycles protect the door & frame from damage caused by abuse
- Retrofits existing SARGENT 1230/1231 Series Closer installations
Standard Applications
1431 Series Powerglide®

The standard application of the 1431 door closer is the most common and the most desirable. The closer mounts on the hinge (pull) side of door (except when the W Corner Bracket is used). Note: This application is not recommended on exterior doors swinging out, since the closer is not protected from weather. The cover projection normally limits the door opening to a maximum of 160°.

1431 Standard Application for:
- Interior Doors Opening In or Out
- Exterior Doors Opening In

1431 Standard Application Door Opening Range
(Range based on Mounting Position)
- O & RO Standard Arms: 120°–180°
- H- Hold Open Arm: 90°–180°
- F- Fusible Link Hold Open Arm: 75°–135°

OLC - Low Ceiling Application Arm for Ceiling to Door Clearance of 1-1/4’ – 1-1/2”
Door Top Rail Requirement
- 2-5/8” min. rail (116mm)
- For Top Rails less than 3-3/4” with window opening, the 1431-J Cover Plate is recommended

Wall Clearance Requirement

Cover Projection normally limits door opening to 160°
Arms & Accessories for Standard Applications
1431 Series Powerglide®

O - Standard Arm
- Forged Steel Arm
- 11-1/4" (286mm) long
- Non-handed
- Permits 120° door opening with standard mounting
- Permits 180° door opening with alternate mounting or corner bracket

For arm only, order as 25-O x finish
Includes: 63-2607 - Main arm and link assembly
63-2216 - Foot assembly
64-2407 - Screw pack

UO/RUO Packages
- Universal arm package provides brackets and arms to install closer in standard top jamb or parallel applications
- Screw packs 64-2407 & 63-2391

Screw packs
64-2407 & 63-2391

1431-J Cover Plate
- Can be used to improve appearance when narrow door rail permits closer to be viewed through glass panel.
- Specify finish.

RO Regular Arm
- Cold Formed Steel Arm
- 11-1/4" (286mm) long
- For reveal depths up to 2" (51mm)
- Arm is not handed
- Permits 180° door opening

For arm only, order as 25-RO x finish
Includes: 63-2336 - Main arm and link assembly
63-2216 - Foot assembly
64-2407 - Screw pack

H - Hold Open Arm
- Forged Steel Arm
- 11-1/4" (286mm) long
- Non-handed
- Hand is changed by inverting the foot assembly
- Permits 180° door opening
- Holds open from 80° to 180°

For arm only, order as 25-H x finish
Includes: 63-2229 - Main arm and swivel assembly
64-2407 - Screw pack

F - Fusible Link Hold Open Arm
- Forged Steel Arm
- 11-1/4" (286mm) long
- Handed same as door
- Friction type holder easily adjusted by a wrench
- Holds open from 80° to 140°
- 160° F Link Standard
- Specify 125°F Link when required

For arm only, order as 25-F x hand x finish
Includes: 63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2468 - Foot assembly
64-2407 - Screw pack

O8 - Mortise Foot Arm
- Forged Steel Arm
- 11-1/4" (286mm) long
- Non-handed
- Permits 120° door opening
- Commonly used with bull nose frames

For arm only, order as 25-O8 x finish
Includes: 63-2607 - Main arm and link assembly
63-2273 - Foot assembly
64-2407 & 63-2391 - Screw packs

H8 - Mortise Foot Hold Open Arm
- Forged Steel Arm
- 11-1/4" (286mm) long
- Handed same as door
- Friction type holder easily adjusted by a wrench
- Permits 140° door opening
- 160° F Link Standard
- Specify 125°F Link when required

For arm only, order 25 R-H8 x finish for right hand or 25 L-H8 x finish for left hand
Includes: 63-2229 - Main arm & link assembly
63-2289 - Left hand foot assembly
63-2290 - Right hand foot assembly
63-2290RH - Foot assembly
63-2229 - Main arm and swivel assembly
64-2407 & 63-2391 - Screw packs

O - Standard Arm
- Forged Steel Arm
- 11-1/4" (286mm) long
- Non-handed
- Permits 120° door opening with standard mounting
- Permits 180° door opening with alternate mounting or corner bracket

For arm only, order as 25-O x finish
Includes: 63-3396 - Main arm and link assembly
63-2216 - Foot assembly
64-2407 - Screw pack

1431-W Corner Bracket
- Fastens securely to both the head and jamb
- Malleable iron, painted to match closer finish
- Non-handed
- Requires 1-1/4" (32mm) minimum wide stop
- Order as 1431-W x finish

1431-J Cover Plate
- Can be used to improve appearance when narrow door rail permits closer to be viewed through glass panel.
- Specify finish.
Top Jamb Applications
1431 Series Powerglide®

Top Jamb applications - The 1431 closer is mounted on the frame face above the door. The foot is mounted on the push side of door. This application is for use on exterior doors opening out to protect the closer from the weather.

1431-O Typical Reveal Top Jamb Applications
For reveals up to 2" (51mm) maximum
- O or RO Arms - Max. Door Opening: 180°
- H Arm - Hold Open Range: 80°–180°
- F Arm - Fusible Link Hold Open Arm
  Hold Open Range: 80°–130°

1431-OZ Deep Reveal Top Jamb Applications
For reveals from 2-1/8" (54mm) to 5" (127mm)
- OZ Arm - Max. Door Opening: 140°
- HZ Arm - Hold Open Range: 80°–140°
- FZ Arm - Fusible Link Hold Open Arm
  Hold Open Range: 80°–130°

1431-OZA Extra Deep Reveal Top Jamb Applications
For reveals from 5-1/8" (130mm) to 8" (230mm)
- OZA Arm - Max. Door Opening: 140°
- HZA Arm - Hold Open Range: 80°–130°
- FZA Arm - Fusible Link Hold Open Arm
  Hold Open Range: 80°–130°

Minimum Frame Face Required
- 1-3/4" (44mm) for both single and double rabbeted frames

Minimum Door Top Rail Required to Mount Closer Foot
- 1-7/8" (48mm) minimum
- Rail height required depends on type and make of auxiliary holder if used

Adjustable Closing Force
- Interior doors to 5'0" wide
- Exterior doors to 4'0" wide
- Shipped factory preset for 3'0" door
- Factory pre-sized upon request

Top Jamb Application for Low Ceilings using 1431-B Mounting Plate
- Required for low ceiling condition and narrow face frames
- Available w/powder coat or plated finish to match cover
- Non-handed
- Plate mounting screws included
- Order as 1431-B x finish
Arms for Top Jamb Applications
1431 Series Powerglide®

**Narrow Reveal Arms**

<table>
<thead>
<tr>
<th>O - Standard Arm</th>
<th>RO Regular Arm</th>
<th>H - Hold Open Arm</th>
<th>F - Fusible Link Hold Open Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Forged Steel Arm 11-1/4” (286mm) long</td>
<td>• Cold Formed Steel Arm 11-1/4” (286mm) long</td>
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<td>• Forged Steel Arm 11-1/4” (286mm) long</td>
</tr>
<tr>
<td>• For reveals up to 2” (51mm)</td>
<td>• Non-handed</td>
<td>• For reveals up to 2” (51mm)</td>
<td>• For reveals up to 2” (51mm)</td>
</tr>
<tr>
<td>• Non-handed</td>
<td>• Permits 120° door opening</td>
<td>• Adjustable friction holder</td>
<td>• Adjustable friction holder</td>
</tr>
<tr>
<td>• Permits 180° door opening</td>
<td>with standard mounting</td>
<td>• Non-handed</td>
<td>• Handed same as door</td>
</tr>
</tbody>
</table>

For arm only, order as 25-O x finish
Includes:
63-2607 - Main arm and link assembly
63-2216 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-RO x finish
Includes:
63-3306 - Main arm and link assembly
63-2216 - Foot assembly
24-2407 screw pack

For arm only, order as 25-H x finish
Includes:
63-2222 - Main arm and link assembly
61-2303 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-F x hand x finish
Includes:
63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2408 - Foot assembly
64-2407 - Screw pack

**Deep Reveal Arms**

<table>
<thead>
<tr>
<th>OZ - Standard Arm for Deep Reveals</th>
<th>HZ - Hold Open Arm</th>
<th>FZ - Fusible Link Hold Open Arm for Deep Reveals</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Forged Steel Arm 11-1/4” (286mm) long</td>
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</tr>
<tr>
<td>• For reveals from 2-1/8” (54mm) to 5” (127mm)</td>
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<td>• For reveals up to 2” (51mm)</td>
</tr>
<tr>
<td>• Non-handed</td>
<td>• Adjustable friction holder</td>
<td>• Adjustable friction holder</td>
</tr>
<tr>
<td>• Permits 140° door opening</td>
<td>• Non-handed</td>
<td>• Handed same as door</td>
</tr>
</tbody>
</table>

For arm only, order as 25-OZ x finish
Includes:
63-2607 - Main arm and link assembly
63-2217 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-HZ x finish
Includes:
63-2220 - Main arm and link assembly
61-2303 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-FZ x hand x finish
Includes:
63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2408 - Foot assembly
64-2407 - Screw pack

**Extra Deep Reveal Arms**

<table>
<thead>
<tr>
<th>OZA - Standard Arm for Extra Deep Reveal</th>
<th>HZA - Hold Open Arm for Extra Deep Reveal</th>
<th>FZA - Fusible Link Hold Open Arm for Extra Deep Reveal</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Forged Steel Arm 11-1/4” (286mm) long</td>
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</tr>
<tr>
<td>• For reveals from 5-1/8” (130mm) to 8” (203mm)</td>
<td>• For reveals from 5-1/8” (130mm) to 8” (203mm)</td>
<td>• For reveals up to 2” (51mm)</td>
</tr>
<tr>
<td>• Non-handed</td>
<td>• Adjustable friction holder</td>
<td>• Adjustable friction holder</td>
</tr>
<tr>
<td>• Permits 140° door opening</td>
<td>• Non-handed</td>
<td>• Handed same as the door</td>
</tr>
</tbody>
</table>

For arm only, order as 25-OZA x finish
Includes:
63-2607 - Main arm and link assembly
63-2218 - Foot assembly
64-2407 Screw pack

For arm only, order as 25-HZA x finish
Includes:
63-2231 - Main arm and link assembly
61-2303 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-FZA x hand x finish
Includes:
63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2408 - Foot assembly
64-2407 - Screw pack

**Arms for Narrow Reveals**

| • Cold Formed Steel Arm 11-1/4” (286mm) long | • Adjustable friction holder | • 160° F link standard |
| • Permits 140° door opening | • Non-handed | • Specify 125° F link when required |
| • For arm only, order as 25-RO x finish |

Includes:
63-3396 - Main arm and link assembly
63-2216 - Foot assembly
24-2407 screw pack

For arm only, order as 25-HZ x finish
Includes:
63-2221 - Main arm and link assembly
61-2303 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-F x hand x finish
Includes:
63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2408 - Foot assembly
64-2407 - Screw pack

**Arms for Deep Reveals**

| • Forged Steel Arm 11-1/4” (286mm) long | • 160° F link standard |
| • For reveals 5-1/8” (130mm) to 8” (203mm) | • Specify 125° F link when required |
| • Adjustable friction holder | • Handed same as the door |
| • Non-handed | • Permits 140° door opening |

For arm only, order as 25-OZ x finish
Includes:
63-2607 - Main arm and link assembly
63-2217 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-HAZ x finish
Includes:
63-2231 - Main arm and link assembly
61-2303 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-FZA x hand x finish
Includes:
63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2408 - Foot assembly
64-2407 - Screw pack

**Arms for Extra Deep Reveals**

| • Forged Steel Arm 11-1/4” (286mm) long | • 160° F link standard |
| • For reveals up to 2” (51mm) | • Specify 125° F link when required |
| • Adjustable friction holder | • Handed same as the door |
| • Non-handed | • Permits 140° door opening |

For arm only, order as 25-O x finish
Includes:
63-2607 - Main arm and link assembly
63-2216 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-H x finish
Includes:
63-2221 - Main arm and link assembly
61-2303 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-F x hand x finish
Includes:
63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2408 - Foot assembly
64-2407 - Screw pack

**Arms for Narrow Reveals**

| • Cold Formed Steel Arm 11-1/4” (286mm) long | • 180° door opening |
| • For reveals 5-1/8” (130mm) to 8” (203mm) | • With standard mounting |
| • Adjustable friction holder | • With alternate mounting or corner bracket |
| • Non-handed | • Permits 140° door opening |

For arm only, order as 25-O x finish
Includes:
63-2607 - Main arm and link assembly
63-2216 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-H x finish
Includes:
63-2221 - Main arm and link assembly
61-2303 - Foot assembly
64-2407 - Screw pack

For arm only, order as 25-F x hand x finish
Includes:
63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2408 - Foot assembly
64-2407 - Screw pack
Parallel Arm Applications
1431 Series Powerglide®

Parallel Arm Applications - The 1431 closer is mounted on the push side of the door with the arm under the frame parallel to the face of the door. This application is well suited for narrow face frames and deep reveal applications. The closer arm does not project into the room, and the door can be swung open much farther than in Top Jamb Application.

Heavy Duty Parallel Arms

For use in high traffic and abusive environments

- Friction and positive hold open arms available
- Use friction hold open arms for doors subject to moderate hold open use
- Use positive stop hold open arms for doors subject to frequent hold open use
- Dead stop and compression stop arms available

Non hold-open arms

- Two mounting positions for 120° and 180° maximum door openings

Stop arms

- 6 mounting positions allow stop from 85° - 110°

Positive stop hold open arms

- 6 mountings provide hold open positioning from 85° - 110°

Friction hold open arm

- Two mountings provide adjustable hold open positions from 75° - 180°

Regular Duty Parallel Arms

Available Arms for institutional installations:

- Regular Duty Parallel Arms
- Offset Bracket Arms for use with Auxiliary Holders & Stops
- Parallel flush frame arms
- Flush frame arms for use with Auxiliary Holders & Stops
- Flush frame, friction hold open arms
- Friction hold open arms
- Use friction hold open arms for doors subject to moderate hold open use
- Fusible link hold open arms

Standard Mounting Position

- 120° Maximum door opening
- Holding range of friction and fusible hold open arms: 75° - 110°

Alternate Mounting Position

- Maximum door opening: 180°
- Holding range of friction and fusible hold open arms: 85° - 170°

For use in high traffic and abusive environments

- Friction and positive hold open arms available
- Use friction hold open arms for doors subject to moderate hold open use
- Dead stop and compression stop arms available

Available Arms for institutional installations:

- Regular Duty Parallel Arms
- Offset Bracket Arms for use with Auxiliary Holders & Stops
- Parallel flush frame arms
- Flush frame arms for use with Auxiliary Holders & Stops
- Flush frame, friction hold open arms
- Friction hold open arms
- Use friction hold open arms for doors subject to moderate hold open use
- Fusible link hold open arms

Standard Mounting Position

- 120° Maximum door opening
- Holding range of friction and fusible hold open arms: 75° - 110°

Alternate Mounting Position

- Maximum door opening: 180°
- Holding range of friction and fusible hold open arms: 85° - 170°
P10 - Heavy Duty Parallel Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting

For arm only, order as 25-P10 x finish
Includes: 63-0641 - Main arm
63-3727 - Arm and bracket assembly
64-2407 & 63-2392 - Screw packs

PS - Heavy Duty Parallel Arm with Positive Stop

- Forged Steel Arm 11-1/4" (286mm) long
- Handed arm is field-reversible
- Provides built in stop from 85° to 110°
- Permits 110° opening maximum
- Easily installed
- Permits 85° to 110° door opening

For arm only, order as 25-PS x finish
Includes: 63-0641 - Main arm
63-3837 - Arm and bracket assembly
64-2407 & 63-2392, 63-2396 - Screw packs

CPS - Heavy Duty Parallel Arm with Compression Stop

- Forged Steel Arm 11-1/4" (286mm) long
- Provides built in compression stop from 85° to 105°
- Permits 105° opening maximum
- Easily installed
- Handed arm is field-reversible
- Dead stop within 3°

For arm only, order as 25-CPS x finish
Includes: 63-0641 - Main arm
63-3830 - Arm and bracket assembly
63-0516 - Bumper holder
63-3493 - Bumper
64-2407 & 63-2398 - Screw packs

PH10 - Heavy Duty Friction Hold Open Parallel Arm

- Equipped with adjustable friction holder
- Adjustable hold open from 75° to 180°
- Forged steel arm 11-1/4" (286mm) long
- Handed same as door
- Use friction hold open arms for doors subject to moderate hold open use

For arm only, order as 25-PH10 x finish
Includes: 63-0641 - Main arm
63-3839 - Left hand arm and bracket assembly
63-3840 - Right hand arm and bracket assembly
64-2407 & 63-2392 - Screw packs

PSH - Heavy Duty Parallel Hold Open Arm with positive Stop

- Provides holder and stop features
- Handed arm is field-reversible
- Easily installed/adjusted
- Permits 85° to 110° door opening

For arm only, order as 25-PSH x finish
Includes: 63-0641 - Main arm
63-3833 - Arm and bracket assembly
64-2407 & 63-2392, 63-2396 - Screw packs

CPSH - Heavy Duty Hold Open Parallel Arm with Compression Stop

- Forged Steel Arm 11-1/4" (286mm) long
- Handed arm is field-reversible
- Provides built in compression stop and holder mechanism from 85° to 105°
- Easily installed/adjusted
- Permits 105° opening maximum
- Dead stop within 3°

For arm only, order as 25-CPSH x finish
Includes: 63-0641 - Main arm
63-3836 - Arm and bracket assembly
63-0516 - Bumper holder
63-3493 - Bumper
64-2407 & 63-3487 - Screw packs

Positive Stop Hold Open Arms (PSH & CPSH ARMS)

- Use on doors subject to repetitive hold open use
- 6 hold open angle installation
- Hold open function may be disengaged
- Hold open tension is easily adjustable

The PSH and CPSH arms project 2 3/4" below the head stop
**Hold Open Arms**

**PH4 - Flush frame, Friction Hold Open Arm**
- Forged Steel Arm 11-1/4” (286mm) long
- Holds open from 75° to 180°
- Easily adjusted by wrench
- Non-handed
- Use on frames where stop or soffit is too narrow to mount the standard hold open foot bracket

For arm only, order as 25-PH4 x finish

Includes:
- 63-2229 - Main arm and link assembly
- 62-229 - Foot bracket
- 64-2407 & 63-2391 - Screw packs

**PH9 - Friction Hold Open Arm**
- Forged Steel Arm 11-1/4” (286mm) long
- Holds open from 75° to 180°
- Easily adjusted by wrench
- Non-handed

For arm only, order as 25-PH9 x finish

Includes:
- 63-2229 - Main arm and link assembly
- 64-2407 & 63-2391 - Screw packs

**PF9 - Fusible Link Hold Open Arm**
- Forged Steel Arm 11-1/4” (286mm) long
- Fusible link melts and releases hold mechanism allowing door to close
- 160°F fusible link standard, 125°F link optional
- Equipped with adjustable friction holder
- Holds door open from 75° to 180°
- Easily adjusted by wrench
- Handed same as door

For arm only, order as 25-PF9 x hand x fusible link degree x finish

Includes:
- 63-2229 - Main arm and link assembly
- 63-2245 - Left hand foot assembly
- 63-2246 - Right hand foot assembly
- 64-2407 & 63-2391 - Screw packs

**Offset Bracket Arms**

**P3 - 1” Offset Bracket for use with Auxiliary Holder/Stop**
- Forged Steel Arm 11-1/4” (286mm) long
- For use with auxiliary surface overhead stops and holders
- Foot bracket is offset 1” more than P-9, allowing door closer to be lowered on door face
- Non-handed

For arm only, order as 25-P3 x finish

Includes:
- 63-2607 - Main arm and link assembly
- 64-2407 & 63-2391 - Screw packs

**P3A - 1-3/4” Offset Bracket for use with Auxiliary Holder/Stop**
- Forged Steel Arm 11-1/4” (286mm) long
- For use with auxiliary surface overhead stops and holders and door coordinators
- Foot bracket lowers door closer an additional 3/4” below P-3 bracket
- Non-handed

For arm only, order as 25-P3A x finish

Includes:
- 63-2607 - Main arm and link assembly
- 64-2407 & 63-2391 - Screw packs

**P4 - Parallel Flush frame Arm**
- Forged Steel Arm 11-1/4” (286mm) long
- Foot bracket is attached to frame or transom face
- For use where stop or soffit is too narrow for the standard P9
- Permits 120° opening with standard mounting
- Permits 180° opening with alternate mounting
- Non-handed

For arm only, order as 25-P4 x finish

Includes:
- 63-2607 - Main arm and link assembly
- 63-2295 - Foot assembly
- 64-2407 & 63-2391 - Screw pack

**P4A - Flush Frame Arm for use with Auxiliary Holder/Stop**
- Forged Steel Arm 11-1/4” (286mm) long
- For use with auxiliary surface overhead stops and holders
- Foot bracket is attached to frame or transom face
- Foot bracket lowers door closer an additional 3/4” below P4 bracket
- Non-handed

For arm only, order as 25-P4A x finish

Includes:
- 63-2607 - Main arm and link assembly
- 63-2227 - Foot assembly
- 64-2407 & 63-2391 - Screw packs

**RP9 Regular Arm**
- Cold Formed Steel Arm 11-1/4” (286mm) long
- Arm is not handed
- Permits 120° opening with standard mounting
- Permits 180° opening with alternate mounting

For arm only, order

Includes:
- 63-3396 - Main arm and link assembly
- 63-2274 - Foot assembly
- 64-2407 & 63-2391 - Screw packs

**P9 - Standard Parallel Arm**
- Forged Steel Arm 11-1/4” (286mm) long
- Non-handed

For arm only, order as 25-P9 x finish

Includes:
- 63-2607 - Main arm and link assembly
- 64-2407 & 63-2391 - Screw packs

**UO/RUO Packages**
- Universal arm package provides arms and brackets to install closer in standard top jamb or parallel application

Screw packs 64-2407 & 63-2391 - 125-P9

**UH Package**
- Universal hold open arm package provides brackets and arms to install closer in top jamb, standard or parallel applications

Screw packs 64-2407 & 63-2391 - 125-PH9
### Heavy Duty Parallel Accessories

<table>
<thead>
<tr>
<th><strong>581-2 Blade Stop Spacer Kit</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td>• For frames with 1/2&quot; blade stops</td>
</tr>
<tr>
<td>• For use with P10, PH10, PS, PSH, CPS and CPSh arms</td>
</tr>
<tr>
<td>• 125-V bracket included</td>
</tr>
<tr>
<td>• Packed with 1-1/4&quot; long screws</td>
</tr>
<tr>
<td>Use P/N 64-0157 to order blade stop only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>125-V/125-VF Brackets</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>125-V</strong></td>
</tr>
<tr>
<td>• For use with all heavy duty parallel arms</td>
</tr>
<tr>
<td>• Use 125-V for narrow stop and frame conditions</td>
</tr>
<tr>
<td><strong>125-VF</strong></td>
</tr>
<tr>
<td>• Use 125-VF for flush door and frame conditions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Spacer 63-0191</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td>• 1/2&quot; x 5/8&quot;</td>
</tr>
<tr>
<td>• Included standard with PS, PSH, PH10, P-10 CPS and CPSh arm for use with rabbited frames</td>
</tr>
</tbody>
</table>

### Regular Duty Parallel Accessories

<table>
<thead>
<tr>
<th><strong>125-P3 Arm Conversion Unit</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>• Converts O or P9 arm to P3 Parallel Arm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>125-P3A Arm Conversion Unit</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5.png" alt="Image" /></td>
</tr>
<tr>
<td>• Converts O or P9 Arm to P3A Parallel Arm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>125-P4 Conversion Unit</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image6.png" alt="Image" /></td>
</tr>
<tr>
<td>• Converts O or P9 Arm to P4A Arm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>125-P4A Arm Conversion Unit</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7.png" alt="Image" /></td>
</tr>
<tr>
<td>• Converts O or P9 arm to P4A Arm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>125-PH9 Parallel Arm Foot</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image8.png" alt="Image" /></td>
</tr>
<tr>
<td>• Converts standard hold open (H) arm to PH9 Parallel Hold Open Arm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>581-1 Blade Stop Spacer Kit</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image9.png" alt="Image" /></td>
</tr>
<tr>
<td>• For frames with 1/2&quot; blade stops</td>
</tr>
<tr>
<td>• For use with P9, PH9 and PF9 arms only</td>
</tr>
<tr>
<td>• Packed with 1-1/4&quot; long screws</td>
</tr>
</tbody>
</table>

### Miscellaneous Accessories

<table>
<thead>
<tr>
<th><strong>1431 J Cover Plate</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image10.png" alt="Image" /></td>
</tr>
<tr>
<td>• Can be used to improve appearance when narrow door rail permits closer to be viewed through glass panel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>1431 Drop Plate</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image11.png" alt="Image" /></td>
</tr>
<tr>
<td>• Required for parallel arm applications with top rails less then 5 3/4&quot;</td>
</tr>
<tr>
<td>• Requires 3&quot; (76mm) minimum top rail</td>
</tr>
<tr>
<td>• Available with powder coat or plated finish to match closer</td>
</tr>
<tr>
<td>• Non-handed – Plate mounting screws included</td>
</tr>
<tr>
<td>• Order as 1431-D x finish</td>
</tr>
</tbody>
</table>

### 585 Retrofit Kits

The 585 kit allows easy upgrade from existing 1230/1231 Series to the 1431 Series. Kit includes closer, full cover, and fasteners. 585-2 Replaces 1230/1231 585-4 Replaces 1230 DA/1231 DA
Track Type Applications
1431 Series Powerglide®

1431 Track Type Closer - Offers the most decorative door closer providing a clean unobstructed appearance without the cost of concealed closers and tracks. With versatile mounting options on either side of the door, the 1431 track type closers are a favorite of interior designers.

OT Track Arm
- Track mounts on frame face "OT"
- Minimum top rail required - 2-3/8"
- Mounting plates cannot be used for this application

POT Track Arm
- Track mounts on frame stop "POT"
- Minimum top rail required without drop plate: 4-3/4" (121mm)
- With 1431D Drop Plate 3" (76mm)

Maximum Door Opening
- 160° with standard track
- 120° with optional bumper track
- 180° with ideal conditions for standard track

Hold Open Range
- 85° to 120°

Minimum Stop Required
- 1-9/16" (40mm) wide

Track
- Extruded aluminum track
- End caps finished to match track

Arm
- Forged steel
- Bearing roller

Bumper (Optional)
- Mounts in track to assist backcheck
- Not designed to be used as a stop
- Auxiliary stop is required
- Available for both regular or hold open tracks

Holder (Optional)
- Mounts within the track (adjustable)

Finishes
- EAB, EB, ED, EN, EP powder coat on all exposed surfaces

Arm & Track
<table>
<thead>
<tr>
<th>Description/Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1431—OT</td>
</tr>
<tr>
<td>1431—OTB</td>
</tr>
<tr>
<td>1431—HT</td>
</tr>
<tr>
<td>1431—HTB</td>
</tr>
<tr>
<td>1431—OD</td>
</tr>
<tr>
<td>1431—ODB</td>
</tr>
<tr>
<td>1431—HD</td>
</tr>
<tr>
<td>1431—HDB</td>
</tr>
<tr>
<td>1431—POT</td>
</tr>
<tr>
<td>1431—POTB</td>
</tr>
<tr>
<td>1431—PHT</td>
</tr>
<tr>
<td>1431—PHTB</td>
</tr>
</tbody>
</table>

NOTE: Two mounting applications are available
Suggested Architect’s Specification

ADA Compliance, General Information

1431 Series Powerglide®

General Information

Special Conditions

The SARGENT Website (www.sargentlock.com) contains templates for all standard applications of SARGENT Door Closers with SARGENT overhead door holders. To insure a satisfactory installation for other holders, it is recommended that complete details be submitted as follows:

- Type, size and make of holder
- Holding position (maximum door opening)
- Submit holder template being used
- Closer application being used
- Size and type of hinge

In the case of an unusual door, frame and/or hinge conditions where regular products do not meet requirements, submit drawings and complete details specifying the degree of door openings required, the type and size of hinge and the max. door opening angle.

Architectural Specifications

1. All closers for both interior and exterior doors shall be the product of one manufacturer and be matched in style.
2. Surface closers shall be adjustable to provide sizes 1 through 6 and comply with ADA.
3. Full rack and pinion construction.
4. Closing speed, latching speed and backcheck shall be controlled by key operated valves.
5. Delayed action feature shall be available and controlled by a separate valve. Delayed action shall be available in addition to, not in lieu of, backcheck.
6. The one piece closer body shall be manufactured of high-performance cast aluminum silicon alloy.
7. An increase of 15% in closing power shall be provided by means of adjustment of the arm leverage at the foot connection. (Standard Arm)
8. All arms shall be finely finished with heavy duty forged steel main arm.
9. Two mounting positions of the closer shall meet all requirements. Standard mountings shall provide 120° door opening and alternate mounting 180° door opening.
10. All closers shall be suitable for standard, corner bracket, top jamb, parallel arm and track type applications when provided with proper brackets and arms.
11. Closer covers shall be of high impact plastic material of flame retardant grade, secured by machine screws.
12. Projection of closer body from door shall not exceed 2-1/4” (57mm) with standard cover.
13. Closers shall be non-handed to meet a variety of door conditions and design requirements.
14. The spindle shaft shall be sealed hydraulically with an “O” ring.
16. Closers should have two pressure relief valves (opening and closing cycles).
17. All closers to have a 10 year limited warranty.

Through-bolting and Mortise Nuts

- When through-bolting is ordered, factory will furnish mortise nuts for use with the machine screws furnished with the closer
- Nuts are sized to accommodate 1-3/4” (44mm) standard or 1-3/8” (35mm) thick doors when specified on order
- For 2-1/4” (57mm) thick doors, longer through-bolts will be furnished with mortise nuts
- Through-bolting for 2-1/4” (57mm) thick hollow metal doors require bridge type reinforcement to prevent collapse of top rail when through-bolts are tightened

Special Rust Inhibitor Process (SRI)

The aluminum body of the 1431 provides a high level of corrosion protection in many environments. An additional process (SRI) is available to provide the arms an extra layer of protection for extreme corrosive environments. Specify SRI as an option when ordering.

Architectural Specifications

1. The 1431 door closer is designed to meet the opening force requirements established by the American with Disabilities Act (ADA) limiting the opening force to 5 pounds for interior doors and 8 pounds for exterior doors. The closer should be installed using the alternate mounting given on the templates when used on interior doors.

CAUTION: The entire opening should be reviewed when ADA requirements must be met. Heavy doors add to the opening force while requiring more force to close. Poor quality hinges will add frictional resistance to the door and require more force to open and close. HVAC imbalances can cause a wind load that may also add to the opening forces. In these applications, a manual door closer may be unable to reliably close and latch a door when adjusted to ADA requirements. In these situations, a SARGENT low energy door operator should be used.

1431 Designed to Aid the Physically Challenged

The entire opening should be reviewed when ADA requirements must be met. Heavy doors add to the opening force while requiring more force to close. Poor quality hinges will add frictional resistance to the door and require more force to open and close. HVAC imbalances can cause a wind load that may also add to the opening forces. In these applications, a manual door closer may be unable to reliably close and latch a door when adjusted to ADA requirements. In these situations, a SARGENT low energy door operator should be used.
Introduction to SARGENT Overhead Holders and Stops

SARGENT overhead holders/stops are designed to protect the door and hardware from the abuse commonly found in commercial and institutional applications. With four different series that include surface or concealed, standard or heavy duty, SARGENT has a holder/stop for your application.

Overhead holders/stops are the most practical method of stopping a door as well as eliminating unsightly wall stops and dangerous floor stops. Using an overhead holder/stop distributes abusive forces rather than concentrating them toward the hinge. Some door closers are available with incorporated holders/stops. These work well in most cases, but when subjected to continuous abuse can lead to frame and hinge failure. SARGENT overhead holders/stops are designed and manufactured for years of service and come with a 5 year warranty.

Frequently Used Overhead Stops used with the 1431 Series

- Standard Door Closer Applications (PULL SIDE MOUNT) Not Shown
  590 Series with 1431 Series “O” Arm
  690 Series with 1431 Series with “O” Arm
  1530 Series with 1431 Series with “O” Arm
  1540 Series with 1431 Series with “O” Arm

- Parallel Arm Door Closer Applications (PUSH SIDE MOUNT)
  590 Series with 1431 Series “P3” Arm
  690 Series with 1431 Series with “P9” Arm
  690 Series with 1431 Series with “P10” Arm
  1530 Series with 1431 Series with “P9” Arm
  1530 Series with 1431 Series with “P10” Arm
  1540 Series with 1431 Series with “P3” Arm

- Parallel Arm Door Closer Applications Used with a Flush Frame
  590 Series with 1431 Series “P4” Arm
  690 Series with 1431 Series with “P4” Arm
  1530 Series with 1431 Series with “P4” Arm
  1540 Series with 1431 Series with “P4” Arm

- Top Jamb Applications
  590, 690, 1530, 1540 Series with 1431 Series with “O” 0Z or 0ZA Arm

Note: This chart is only a quick reference. Some applications may require the use of a 145 or 195 angle bracket.

For applications not shown, refer to the SARGENT Overhead Holders & Stop catalog
How to Order

1431 Series Powerglide®

Packing

All closer assemblies are packaged 4 per carton. On request, door closers will be packed 2 per carton.

How To Order

<table>
<thead>
<tr>
<th>Options</th>
<th>1431</th>
<th>P4H</th>
<th>26</th>
<th>LH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPC-DA</td>
<td>1431</td>
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<td>31-</td>
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<td>MC-</td>
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<td>SG-</td>
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<td>SRI-</td>
<td></td>
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<td>TB-</td>
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<tr>
<td>31-</td>
<td>Standard</td>
<td>EB</td>
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<td>LH</td>
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<td>36-</td>
<td>Top Jamb</td>
<td>ED</td>
<td></td>
<td>RH</td>
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<td>74-</td>
<td>Page 6</td>
<td>EN</td>
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<td>108BL*</td>
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<td></td>
<td>26*</td>
<td>26D*</td>
<td></td>
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</tr>
</tbody>
</table>

*These finishes are autotopically provided with a metal cover

How To Order

Accessories

<table>
<thead>
<tr>
<th>Series</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm only</td>
<td>Specify 25-, arm required and finish 25-PSH EN</td>
</tr>
<tr>
<td>Body only</td>
<td>Specify CB-1431 (Option DA- available) CB-1431</td>
</tr>
<tr>
<td>Arm conversion Units</td>
<td>Specify unit and finish 125-P9 EB</td>
</tr>
<tr>
<td>Cover Only (Standard)</td>
<td>1431-C x finish 1431-C x EN</td>
</tr>
<tr>
<td>Cover Only (Metal)</td>
<td>1431-CMC x finish and hand &amp; arm type 1431-CMC x 26D x LH X P-10</td>
</tr>
<tr>
<td>Accessories</td>
<td>Specify accessory and finish - See applicable catalog section 1431-D EB</td>
</tr>
</tbody>
</table>

When complete closer assembly is ordered with an accessory, order accessory as a separate item

Finishes

<table>
<thead>
<tr>
<th>Finishes</th>
<th>ANSI/BHMA</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB</td>
<td>695</td>
<td>Bronze enamel or polyester powder coated to match finish 10B</td>
</tr>
<tr>
<td>EN</td>
<td>689</td>
<td>Aluminum enamel or polyester powder coated</td>
</tr>
<tr>
<td>ED</td>
<td>693</td>
<td>Black enamel or polyester powder coated to match finish 20D</td>
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<tr>
<td>EAB</td>
<td>696</td>
<td>Brass enamel or polyester powder coated</td>
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<tr>
<td>EP</td>
<td>691</td>
<td>Bronze enamel or polyester powder coated to match finish 10</td>
</tr>
<tr>
<td>03</td>
<td>605</td>
<td>Bright brass, clear coated</td>
</tr>
<tr>
<td>04</td>
<td>606</td>
<td>Satin brass, clear coated</td>
</tr>
<tr>
<td>09</td>
<td>611</td>
<td>Bright bronze, clear coated</td>
</tr>
<tr>
<td>10</td>
<td>612</td>
<td>Satin bronze, clear coated</td>
</tr>
<tr>
<td>10B</td>
<td>614</td>
<td>Dark oxidized satin bronze, oil rubbed</td>
</tr>
<tr>
<td>10BL</td>
<td>614</td>
<td>Oxidized satin, bronze, clear coated</td>
</tr>
<tr>
<td>15</td>
<td>619</td>
<td>Satin nickel, clear coated</td>
</tr>
<tr>
<td>20D</td>
<td>624</td>
<td>Statuary dark bronze, clear coated</td>
</tr>
<tr>
<td>26</td>
<td>624</td>
<td>Bright chromium plated</td>
</tr>
<tr>
<td>26D</td>
<td>626</td>
<td>Satin chromium plated</td>
</tr>
</tbody>
</table>

Special Rust Inhibitor Process (SRI)

Additional process available for bracket and arms provides an extra layer of protection for extreme corrosive environments. Available with powder coated finishes only, specify SRI- as an option when ordering.