CATALOG

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Feature Highlights:
- For heavy traffic areas, exterior or interior
- Heavy duty cast iron body, non handed
- Precision rack and pinion construction
- Regular arm standard, Friction Hold-Open, Cush, and Hold-Open and Cush are optional
- Tri-Style installation: includes hardware and brackets to allow for regular, top jam, and parallel arm installation
- Adjustable spring power from size 1 to size 6, factory preset size 3
- Separate and adjustable Latch, Sweep and Backcheck valves standard
- Optional Adjustable Delayed action (DA) / barrier free (BF) for elderly or handicapped
- UL listed molded plastic full cover standard, metal cover optional
- All-weather fluid, allowing door closer to perform in temperatures ranging from -31˚ F to 140˚ F
- Needle Bearing for higher efficiency
- 1-1/2’’ (38 mm) diameter piston
- 5/8’’ (16 mm) diameter pinion
- 2-5/16’’ (58 mm) projection (standard cover)
- Door Opening: regular arm 120˚, parallel arm 180˚, and top jamb 120˚
- Finish: Aluminum and Duro stock finishes, other finishes upon request
- LCN 4040 compatible model

Profile:

![Door closer diagram]
Options

- Available arms: Friction Hold-Open, Cush (2x), and Cush and Hold-Open
- Drop Plate: please refer to drop plate section

Arms

- Friction Hold Open Arm (Standard)
  Heavy duty parallel hold-open adjustable arm.
  QDC ARM-01-40A

- Cush Arm
  Heavy duty parallel cushion arm.
  QDC ARM-02-40A

- Hold-Open and Cush Arm
  Heavy duty parallel hold-open and cushion arm.
  QDC ARM-03-40A

- Slide Track Arm
  QDC40A-TRACK

Drop Plates

- QDC40A-18
  Required for hinge side mount where top rail is less than 3 3/4" (95 mm) measured from the top. Plate requires top rail minimum 2" (51 mm) in height.

- QDC40A-18TJ
  Applicable in places where head frame face is less than 3 1/2" (89 mm) in height. Plate requires 1 3/8" (44 mm) minimum head frame.

- QDC40A-18G
  Applicable in places where top of head frame in flush with ceiling condition. Plate requires 1 3/8" (44 mm) minimum head frame.

- QDC40A-18PA
  Required for parallel arm mounting where top rail is less than 5 1/2" (140 mm); measured from the top. Plate requires 2" (51 mm) minimum top rail.

Code Compliance

- UL & ULC listed
- Meets Grade 1 requirements of ANSI/BHMA A156.4
- Adjustable to meets requirements of the Americans with Disabilities Act

Important Notes - Door Closers for Low Opening Force Applications:

Door closers installed in openings required to meet the requirements of The Americans with Disabilities Act of ANSI Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door.
How to Order

QDC40A Door Closer

<table>
<thead>
<tr>
<th>Series</th>
<th>Arm Type</th>
<th>Delayed Action</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC40A: Heavy duty Closer</td>
<td>Blank: Regular Arm (Standard) 01: HOA, Hold-Open Arm 02: CUSH, CUSH Arm 03: HCUSH, Hold-Open CUSH Arm TRACK: Slide Track Arm</td>
<td>Blank: No Delayed Action DA: Delayed Action</td>
<td>AL: Aluminum DU: Duro</td>
</tr>
</tbody>
</table>

Order Sample

QDC40A Drop Plate

<table>
<thead>
<tr>
<th>Series</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC40A-18: for hinge side mount QDC40A-18G: for head frame flush with ceiling QDC40A-18TJ: Head frame less than 3 1/2&quot; QDC40A-18TJ: for parallel arm mounting</td>
<td>AL: Aluminum DU: Duro</td>
</tr>
</tbody>
</table>

Example:

QDC40A-18-AL

QDC ARM-01-40A: Friction Hold-Open Arm
AL: Aluminum
Feature Highlight:

- Designed for high traffic application, exterior or interior
- Heavy duty aluminum body, non-handed
- Precision rack and pinion construction
- Regular arm standard, Friction Hold-Open, Cush, Hold-Open and Cush, and Slide Track arms optional
- Tri-Style installation: includes hardware and brackets to allow for regular, top jam, and parallel arm installation
- Adjustable spring power from size 2 to size 6 (QDC-70), and size 1 to size 4 (QDC-70BF)
- Separate and adjustable latch, sweep and backcheck valves standard
- Delayed Action standard on QDC-70BF
- UL listed molded plastic full cover standard, metal cover optional
- All-weather fluid, allowing door closer to perform in temperatures ranging from -31°F to 140°F
- Needle bearing application for higher efficiency
- Highly precise closer for high performance
- 1-1/2” (38mm) diameter piston
- 7/16” (11mm) diameter pinion
- 2-1/2” (64mm) projection (standard cover)
- Finish: Aluminum and Duro stock finishes, other finishes upon request

Options

- Available arms: Friction Hold-Open, Cush, Cush and Hold-Open, and Slide Track
- Drop Plate: please refer to drop plate section
**Arms**

- **Friction Hold Open Arm**
  Heavy duty parallel hold-open adjustable arm.
  QDC ARM-01-70

- **Cush Arm**
  Heavy duty parallel cushion arm.
  QDC ARM-02-70

- **Hold-Open and Cush Arm**
  Heavy duty parallel hold-open and cushion arm.
  QDC ARM-03-70

- **Slide Track Arm**
  Heavy duty parallel slide track arm.
  QDC ARM-04-70

**Drop Plates**

- **QDC-70-DPPA**
  For push side installation when mounting surface height is less than 4-3/4" (121mm)

- **QDC-70-DP**
  For pull side mounting when mounting surface height is less than 3-1/2" (89mm)

**Code Compliance**

- ANSI: Comply with ANSI A156.4 Grade 1
- UL: UL and ULC listed
- ADA: QDC-708F adjustable to conform to requirements of The Americans with Disabilities Act
Important Notes - Door Closers for Low Opening Force Applications:

Door closers installed in openings required to meet the requirements of The Americans with Disabilities Act of ANSI Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door.

How to Order

QDC 70 Door Closer

<table>
<thead>
<tr>
<th>Series</th>
<th>Arm Type</th>
<th>Delayed Action</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC 70: Heavy duty Closer</td>
<td>Blank: Regular Arm, Standard</td>
<td>Blank: No Delayed Action</td>
<td>AL: Aluminum</td>
</tr>
<tr>
<td></td>
<td>HOA: Hold Open Arm</td>
<td>BF: Delayed Action</td>
<td>DU: Duro</td>
</tr>
<tr>
<td></td>
<td>CUSH: CUSH Arm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCUSH: Hold-Open and Cush Arm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Order Sample

QDC 70: Heavy duty iron cast closer
HCUSH: Hold-Open and Cush Arm
BF: Delayed Action
AL: Aluminum

QDC-70 Drop Plate

<table>
<thead>
<tr>
<th>Series</th>
<th>Finishes</th>
<th>Example:</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC-70-DPPA:</td>
<td>AL: Aluminum</td>
<td>QDC-70-DPPA:</td>
</tr>
<tr>
<td>QDC-70-DP:</td>
<td>DU: Duro</td>
<td>for push side</td>
</tr>
<tr>
<td></td>
<td></td>
<td>parallel</td>
</tr>
</tbody>
</table>

QDC-70 Arm

<table>
<thead>
<tr>
<th>Series</th>
<th>Finishes</th>
<th>Example:</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC ARM-01:</td>
<td>AL: Aluminum</td>
<td>QDC-ARM-02:</td>
</tr>
<tr>
<td>QDC ARM-02:</td>
<td>DU: Duro</td>
<td>Cush Arm</td>
</tr>
<tr>
<td>QDC ARM-03:</td>
<td></td>
<td>AL: Aluminum</td>
</tr>
<tr>
<td>QDC ARM-04:</td>
<td></td>
<td>Cush Arm</td>
</tr>
<tr>
<td>Slide Track Arm</td>
<td></td>
<td>AL: Aluminum</td>
</tr>
</tbody>
</table>
Grade 1 Door Closer

Options
- Available arms: Friction Hold-Open, Cush, Cush and Hold-Open
- Drop Plate: please refer to drop plate section

Arms
- Friction Hold Open Arm
  Heavy duty parallel hold-open adjustable arm.
  QDC ARM-01-85

- Cush Arm
  Heavy duty parallel cushion arm.
  QDC ARM-02-85

- Hold-Open and Cush Arm
  Heavy duty parallel hold-open and cushion arm.
  QDC ARM-03-85

Feature Highlight:
- Designed for high traffic application, exterior or interior
- Heavy duty aluminum cast body, non-handed
- Precision rack and pinion construction
- Regular arm standard, Friction Hold-Open, Cush and Hold-Open and Cush arms optional
- Tri-Style installation: includes hardware and brackets to allow for regular, top jam, and parallel arm installation
- Adjustable spring power from size 1 to size 6, factory preset size 3
- Separate and adjustable latch, Sweep and Backcheck valves standard
- Delayed Action Optional
- UL listed molded plastic full cover standard, metal cover optional
- All-weather fluid, allowing door closer to perform in temperatures ranging from -31°F to 140°F
- Needle Bearing application for higher efficiency
- Highly precise closer for high performance
- 1-7/64" (32mm) diameter piston
- 29/64" (11.5mm) diameter pinion
- 2-1/2" (64mm) projection (standard cover)
- Finish: Aluminum and Duro stock finishes, other finishes upon request

Profile:

```
5600 COVER
<table>
<thead>
<tr>
<th>(13 1/8&quot; x 2 15/16&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3 5/8&quot;)</td>
</tr>
<tr>
<td>(11 15/16&quot;)</td>
</tr>
<tr>
<td>(12 5/8&quot;)</td>
</tr>
</tbody>
</table>
```

Profile measurements in inches.
Drop Plates

- **QDC-85-DPPA**
  For Push side parallel arm installation where a narrow top rail prevents direct mounting

- **QDC-85-DP**
  Provides a solid mounting surface when clearance or mounting surface dimensions are limited

**Code Compliance**

- ANSI: Comply with ANSI A156.4 Grade 1
- UL: UL and ULC listed
- ADA: Adjustable to conform to requirements of the Americans with Disabilities Act

**Important Notes - Door Closers for Low Opening Force Applications:**

Door closers installed in openings required to meet the requirements of The Americans with Disabilities Act of ANSI Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door.

**HOW TO ORDER**

**Door Closer**

<table>
<thead>
<tr>
<th>Series</th>
<th>Arm Type</th>
<th>Delayed Action</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC 85:</td>
<td>Blank: Regular Arm, Standard</td>
<td>Blank: No Delayed Action</td>
<td>AL: Aluminum</td>
</tr>
<tr>
<td>Heavy duty Closer</td>
<td>HCA: Hold Open Arm</td>
<td>DA: Delayed Action</td>
<td>DU: Duro</td>
</tr>
<tr>
<td>QDC-85-DPPA</td>
<td>CUSH: CUSH Arm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QDC-85-DP</td>
<td>HCUSH: Hold-Open and Cush Arm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Order Sample**

QDC 85: Heavy duty iron Cast closer
HCUSH: Hold-Open and Cush Arm
AL: Aluminum

**QDC-85 Drop Plate**

<table>
<thead>
<tr>
<th>Series</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC-85-DPPA</td>
<td>AL: Aluminum</td>
</tr>
<tr>
<td>QDC-85-DP</td>
<td>DU: Duro</td>
</tr>
</tbody>
</table>

**Example:**

QDC-85-DPPA-AL

**QDC-85 Arm**

<table>
<thead>
<tr>
<th>Series</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC ARM-01: Friction Hold-Open Arm</td>
<td>AL: Aluminum</td>
</tr>
<tr>
<td>QDC ARM-02: Cush Arm</td>
<td>DU: Duro</td>
</tr>
<tr>
<td>QDC ARM-03: Cush and Hold-Open Arm</td>
<td></td>
</tr>
</tbody>
</table>

**Example:**

QDC ARM-01-AL
Feature Highlight:

- Designed for medium traffic application, exterior or interior
- Aluminum cast body, non-handed
- Precision rack and pinion construction
- Tri-Style installation: includes hardware and brackets to allow for regular, top jam, and parallel arm installation
- Adjustable spring cover from size 2 to size 5 (QDC-90), and size 1 to size 4 (QDC-90BF)
- Separate and adjustable Latch, Sweep and Backcheck valves standard
- Delayed Action standard on QDC-90BF
- UL listed molded plastic full cover standard, metal cover optional
- All-weather fluid, allowing door closer to perform in temperatures ranging from -31°F to 140°F
- Needle Bearing application for higher efficiency
- 1-13/32” (35.8mm) diameter piston
- 7/16” (11.2mm) diameter pinion
- 3” (76mm) projection (standard cover)
- Finish: Aluminum and Duro stock finishes, other finishes upon request

Profile:

- Closer Body

QDC 80 AL = 9-13/16”

QPDC-SLM-SLIM Closer Cover

10-5/8”

1-13/16”

2-11/16”

OPENING | DIM A | DIM B
--- | --- | ---
120° | 10-3/4” | 6-15/16”
120° - 180° | 8-3/4” | 4-3/4”
Code Compliance

- ANSI: Comply with ANSI A156.4 Grade 2
- UL: UL and ULC listed
- ADA: QDC-90BF conforms to requirements of the Americans with Disabilities Act

Important Notes - Door Closers for Low Opening Force Applications:
Door closers installed in openings required to meet the requirements of The Americans with Disabilities Act of ANSI Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door.

HOW TO ORDER

QDC-90 Door Closer

<table>
<thead>
<tr>
<th>Series</th>
<th>Function</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC 90: Heavy Duty Grade 2 Closer</td>
<td>Blank: No Delayed Action</td>
<td>AL: Aluminum</td>
</tr>
<tr>
<td></td>
<td>BF: Barrier Free</td>
<td>DU: Duro</td>
</tr>
</tbody>
</table>

Order Sample

QDC-90: Heavy Duty Grade 2 Closer
No Delayed Action
AL: Aluminum

QDC-90 - AL
Grade 3 Door Closers

Feature Highlight:
- Designed for low traffic application, interior or exterior
- Aluminum cast body, non-handed
- Precision rack and pinion construction
- Spring power size 3 (QDC-53) and size 4 (QDC-54)
- UL listed molded plastic full cover standard
- All-weather fluid, allowing door closer to perform in temperatures ranging from -31°F to 140°F
- Needle bearing application for higher efficiency
- 1-13/32" (35.8mm) diameter piston
- 7/16" (11.2mm) diameter pinion
- 3" (76mm) projection (standard cover)
- Finish: Aluminum and Duro stock finishes

Profile:
- Closer Body

QPDC-SLM-SLIM Line Cover

QDC 53

QDC 54
• Pull Side Installation

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC53</td>
<td>8-3/16&quot;</td>
<td>4&quot;</td>
<td>6-1/2&quot;</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>QDC54</td>
<td>9-1/16&quot;</td>
<td>4&quot;</td>
<td>6-1/2&quot;</td>
<td>1-1/8&quot;</td>
</tr>
</tbody>
</table>

• Push Side Installation

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC53</td>
<td>8-3/16&quot;</td>
<td>8-3/4&quot;</td>
<td>5-5/8&quot;</td>
<td>3-3/8&quot;</td>
</tr>
<tr>
<td>QDC54</td>
<td>9-1/16&quot;</td>
<td>8-3/4&quot;</td>
<td>4-3/4&quot;</td>
<td>3-3/8&quot;</td>
</tr>
</tbody>
</table>

Code Compliance
- ANSI: Comply with ANSI A156.4 Grade 3
- UL: UL and ULC listed

HOW TO ORDER
QDC-53/54 Door Closer

<table>
<thead>
<tr>
<th>Series</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDC-53: Size 3 door closer</td>
<td>AL: Aluminum</td>
</tr>
<tr>
<td>QDC-54: Size 4 door closer</td>
<td>DU: Duro</td>
</tr>
</tbody>
</table>

Order Sample

QDC-53: Size 3 door closer
AL: Aluminum
QDC 53:AL
About Door Closer

Door Operation Frequency

<table>
<thead>
<tr>
<th>Application</th>
<th>Daily</th>
<th>Yearly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Department Store Entrance</td>
<td>5,000</td>
<td>1,500,000</td>
</tr>
<tr>
<td>Large Office Building Entrance</td>
<td>4,000</td>
<td>1,200,000</td>
</tr>
<tr>
<td>Theater Entrance</td>
<td>1,000</td>
<td>450,000</td>
</tr>
<tr>
<td>School Entrance</td>
<td>1,250</td>
<td>225,000</td>
</tr>
<tr>
<td>School Restroom Door</td>
<td>1,250</td>
<td>225,000</td>
</tr>
<tr>
<td>Store or Bank Entrance</td>
<td>500</td>
<td>150,000</td>
</tr>
<tr>
<td>Office Building Restroom Door</td>
<td>400</td>
<td>118,000</td>
</tr>
<tr>
<td><strong>HIGH</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AVERAGE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School Corridor Door</td>
<td>80</td>
<td>15,000</td>
</tr>
<tr>
<td>Office Building Corridor Door</td>
<td>75</td>
<td>22,000</td>
</tr>
<tr>
<td>Store Restroom Door</td>
<td>60</td>
<td>18,000</td>
</tr>
<tr>
<td>Residential Entrance Door</td>
<td>40</td>
<td>15,000</td>
</tr>
</tbody>
</table>

- **ANSI/BHMA A156.4 requirements on cycle test**
  - ANSI Grade 1 Door Closer: 2 million w/o BC, 1.5 million w/BC, Medium to High Traffic
  - ANSI Grade 2 Door Closer: 1 million w/o BC, 750,000 w/BC, Low to Medium Traffic
  - ANSI Grade 3 Door Closer: 500,000 w/ or w/o BC, Low Traffic

- **Requirement of The Americans with Disabilities Act**
  Five pounds of opening force for interior doors. Labeled openings are exempt. Door closers installed in openings required to meet the requirements of The Americans with Disabilities Act of ANSI Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door.

- **Closing (Sweep) Valves**
  Controls the sweep speed of the door from full open to approximately 10° open
  QDC-40/70/85/90 offers adjustable closing speed. QDC-53/54 offers size 3 or size 4 spring power.

- **Latch Valves**
  Controls speed of closing or latching of the door in the last 10° before the door hits the latch point.

- **Backcheck Valves**
  Operates when the door is approximately 70° open, slows the momentum of the door when it has been pushed or pulled open. Crucial in areas with strong winds or on closers without deadstops. This function is not to be used as a door stop.

- **Optional Delayed Action Valves**
  Operates when the door is approximately 70° open and holds the door in that position for a preset time.

- **Efficiency**
  Ten pounds of opening force will yield about six pounds of closing force. With ADA, five pounds of opening force yields approximately three pounds of closing force.