Flowseal®

High Performance and Triple Offset Valves

- Class 150 – 600
- Sizes 2” – 48”
- Wafer, Lug and Flange Body Styles
- Soft Seated; Zero Leakage
- Metal Seated; Zero Leakage
- Fire Safe, Meets API 607, Rev. 4
- Metric Valves per ISO-5752
- Mil-Spec Valves per MIL-V-46242/SH

Center Line®

Remote Seated Butterfly Valves

- Rated to 150, 200 and 285 psi shut-off
- Sizes 2” – 48”
- Wafer and Lug Body Styles
- Series 200 Cast Iron or Ductile Iron Body
- Series 225–285 psi shut-off
- Series 250 – Carbon or Stainless Steel Body
- Series 800 Fully Elastomer Lined Check Valve
- 2-way and 3-way Assemblies

Cranes Automation

- Crane assembled and tested packages
- Crane know how
- Single source responsibility
- Crane Warranty
- Competitive Prices
- Superior Service

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**Flowseal High Performance and Triple Offset Valves**

- **Class 150 – 600**
- **Sizes 2” – 48”**
- **Washer, Lug and Flange Body Styles**
- **Soft Seated; Zero Leakage**
- **Metal Seated; Zero Leakage**
- **Fire Safe, Meets API 607, Rev. 4**
- **Metric Valves per ISO-5752**
- **Mil-Spec Valves per MIL-V-24624(SH)**

**Center Line® Resilient Seated Butterfly Valves**

- Rated to 150, 200 and 285 psi shut-off
- **Sizes 2” – 48”**
- **Washer and Lug Body Styles**
- **Series 200 Cast Iron or Ductile Iron Body**
- **Series 225–285 psi shut-off**
- **Series 250–Carbon or Stainless Steel Body**
- **Series 800 Fully Elastomer Lined Check Valve**
- 2-way and 3-way Assemblies

**Crane Automation**

- **Crane assembled and tested packages**
- **Crane know how**
- **Single source responsibility**
- **Crane Warranty**
- **Competitive Prices**
- **Superior Service**

**Design Features**

- **Flowseal**
- **Center Line**
- **Center Line®**
- **Center Line®**
- **Crane Automation**

**Crane Actuators**

- **Electric Pneumatic Matryx® Vane**
- **Matryx® Vane**
- **Matryx® Vane**
- **Matryx® Vane**
- **Matryx® Vane**

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**Pneumatic Actuator Series DA/DR**

**Double Acting**

- **Standard Features**
  - Torque Range: 80 lb ins to 60,623 lb ins
  - Housing: Cast alloy aluminum, polyurethane coated
  - Mounting: ISO 5211
  - Temperature Range: –4°F to 175°F
  - Size Range: 12 models to choose from
  - Adjustable Travel Stops: Both directions
  - Mounting: Direct mount to Center Line valves

- **Optional Features**
  - Temperature Range:
    - –4°F to 250°F, –40°F to 175°F
  - Solenoid Valves: 3- or 4-way
  - Limit Switches: Adjustable cam operated
  - Positioners: Pneumatic or Electro-pneumatic
  - DC-1 Dribble Control
  - 180° Actuation: 2- or 3-position
  - Manual Override: De-clutchable gear type
  - Speed Controls: Adjust cycle time
  - Special Applications: Offshore, nuclear, hygienic, and gas or oil operation

**Spring Return**

- **Standard Features**
  - Torque Range: 80 lb ins to 41,341 lb ins
  - Housing: Cast alloy aluminum, polyurethane coated
  - Mounting: ISO 5211
  - Position Indicator: Mechanical “Cap” Type
  - Operating Pressure: 20 to 120 PSIG
  - Temperature Range: –4°F to 175°F
  - Size Range: 12 models to choose from
  - Adjustable Travel Stops: Both directions
  - Mounting: Direct mount to Center Line valves

- **Optional Features**
  - Temperature Range:
    - –4°F to 250°F, –40°F to 175°F
  - Solenoid Valves: 3- or 4-way
  - Limit Switches: Adjustable cam operated
  - Positioners: Pneumatic or Electro-pneumatic
  - DC-1 Dribble Control
  - 180° Actuation: 2- or 3-position
  - Manual Override: De-clutchable gear type
  - Speed Controls: Adjust cycle time
  - Special Applications: Offshore, nuclear, hygienic, and gas or oil operation

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**Dimension Table**

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**On-Off**

**Torque Range**: 347 lb in to 17,350 lb in

**Operating Pressure**: 40 to 120 PIPS

**Temperature Range**: -9°F to 225°F

**Powerful actuation in a compact and lightweight package**

**Stacking two vane actuators enable 180° of up to ±10° at each end of the stroke**

**Failsafe Actuation**:
- Double Acting
- Fail Safe

**Specifications**

| Model    | A | B | C | D | E | F | S | W | J | K | L | M | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| MXH      | 4.67 | 5.69 | 6.07 | 1.97 | 2.10 | 2.57 | 1.83 | 2.03 | 2.75 | 3.33 | 2.05 | 2.27 | 2.75 | 3.33 | 2.05 | 2.27 | 2.75 | 3.33 |
| MXM      | 4.67 | 5.69 | 6.07 | 1.97 | 2.10 | 2.57 | 1.83 | 2.03 | 2.75 | 3.33 | 2.05 | 2.27 | 2.75 | 3.33 | 2.05 | 2.27 | 2.75 | 3.33 |
| MXG      | 4.67 | 5.69 | 6.07 | 1.97 | 2.10 | 2.57 | 1.83 | 2.03 | 2.75 | 3.33 | 2.05 | 2.27 | 2.75 | 3.33 | 2.05 | 2.27 | 2.75 | 3.33 |
| MXQ      | 4.67 | 5.69 | 6.07 | 1.97 | 2.10 | 2.57 | 1.83 | 2.03 | 2.75 | 3.33 | 2.05 | 2.27 | 2.75 | 3.33 | 2.05 | 2.27 | 2.75 | 3.33 |

**Design Features**

- "Lock-cut" gear arrangement
- Direct mount to Center Line valves
- 12/24 VDC 4005 - 44300
- 24 VAC 44005 - 44400
- 220VAC, 1 PHASE, 60 Hz
- 347 lb in to 17,350 lb in
- Pre-wired for motor & limit switches
- Adjustable cam operated
- Adjustable open and close

**Process Control Signal**: 4-20 mA, 0-10 VDC

**AC Voltages**: 24 VAC 44010M - 44200M

**AC Voltages**: 220VAC, 1 PHASE, 60 Hz

**AC Voltages**: 400 increments through 90 degrees

**Torque Range**: 347 lb in to 17,350 lb in

**Design Features**

- "Lock-cut" gear arrangement
- Direct mount to Center Line valves
- 120 VAC, 1 PHASE, 60 Hz
- 500 ohm
- 2 SPDT

**Specifications**

- Adjustable open and close
- Directing acting
- Adjustable mechanical travel stops
- Brake
- Manual Override
- Terminal Strip
- Space Heater
- Position Indicator
- Thermal Overload

**Process Control Signal**: 4-20 mA

**Design Features**

- CSA-NRTL/C
- 500 ohm
- 2 SPDT

**Specifications**

- Adjustable open and close
- Directing acting
- Adjustable mechanical travel stops
- Brake
- Manual Override
- Terminal Strip
- Space Heater
- Position Indicator
- Thermal Overload

**Process Control Signal**: 4-20 mA

**Design Features**

- CSA-NRTL/C
- 500 ohm
- 2 SPDT

**Specifications**

- Adjustable open and close
- Directing acting
- Adjustable mechanical travel stops
- Brake
- Manual Override
- Terminal Strip
- Space Heater
- Position Indicator
- Thermal Overload

**Process Control Signal**: 4-20 mA

**Design Features**

- CSA-NRTL/C
- 500 ohm
- 2 SPDT

**Specifications**

- Adjustable open and close
- Directing acting
- Adjustable mechanical travel stops
- Brake
- Manual Override
- Terminal Strip
- Space Heater
- Position Indicator
- Thermal Overload

**Process Control Signal**: 4-20 mA

**Design Features**

- CSA-NRTL/C
- 500 ohm
- 2 SPDT

**Specifications**

- Adjustable open and close
- Directing acting
- Adjustable mechanical travel stops
- Brake
- Manual Override
- Terminal Strip
- Space Heater
- Position Indicator
- Thermal Overload

**Process Control Signal**: 4-20 mA

**Design Features**

- CSA-NRTL/C
- 500 ohm
- 2 SPDT

**Specifications**

- Adjustable open and close
- Directing acting
- Adjustable mechanical travel stops
- Brake
- Manual Override
- Terminal Strip
- Space Heater
- Position Indicator
- Thermal Overload

**Process Control Signal**: 4-20 mA

**Design Features**

- CSA-NRTL/C
- 500 ohm
- 2 SPDT

**Specifications**

- Adjustable open and close
- Directing acting
- Adjustable mechanical travel stops
- Brake
- Manual Override
- Terminal Strip
- Space Heater
- Position Indicator
- Thermal Overload
Electric Actuator Series 44000

Optional Features:
- Standard Features:
  - De-clutchable Handwheel Override
  - Torque Switches
  - Additional Limit Switches
  - DC Voltages
  - AC Voltages

Design Features:
- “Lock-cut” gear arrangement
- NEMA 4 & 4X
- Direct mount to Center Line valves
- 12/24 VDC 4005 - 44300
- 24 VAC 44005 - 44400
- 220VAC, 1 PHASE, 60 Hz
- Pre-wired for motor & limit switches
- Adjustable cam operated
- Adjustable open and close
- Directing acting
- Auto re-set
- CSA-NRTL/C

Modulating
- Process Control Signal: 4-20 mA, 0-10 VDC
- Torque Range: 447 lb ins to 17,359 lb ins
- Housing: NEMA 4 & 4X
- Electric Motor: 120 VAC, 1 PHASE, 60 Hz
- Thermal Overload: Auto re-set
- Limit Switches: Adjustable cam operated
- Position Indicator: Directing acting
- Limit Switches: Adjustable cam operated
- Housing: “Lock-cut” gear arrangement

Optional Features (Modulating):
- Standard Features:
  - Torque Switches
  - Additional Limit Switches
  - AC Voltages
  - AC Voltages

Design Features (Modulating):
- Only one moving part
- Dual external travel stops allow rotation adjustment of up to ±10° at each end of the stroke
- Fail Safe (-FS) models use a pneumatic accumulator of up to ±10° at each end of the stroke
- Stacking two vane actuators enable 180° movement (2- or 3-position)
- Supply pressure to assure valve closure upon loss of power
- Lightweight package

Specifications
- Fail Safe
- Movement (2- or 3-position)
- Supply pressure

Matrix Vane
- Double Acting and Fail Safe versions available
- Housing: Die-cast aluminum
- Operating Pressure: 40 to 120 PSIG
- Dual external travel stops allow rotation adjustment of up to ±10° at each end of the stroke
- Fail Safe (-FS) models use a pneumatic accumulator of up to ±10° at each end of the stroke
- Stacking two vane actuators enable 180° movement (2- or 3-position)
- Sandwich de-clutchable manual gear override
- PTFE interior coatings
- High or low temperature trim
- Positioners
- Breather Block
- Locking Device

Dimensions
- Inches (Millimeters)
- Model A B C D E F G H J K L M P R S T U V W WH
- MX450 22.38 16.68 10.13 26.18 16.00 8.38 1/4-18 –––––––––––– 102.0 196.3 cu. in.
- MX1250 21.00 10.88 12.50 20.38 12.00 3.75 1/4-18 –––––––––––– 4 0 . 0 0 6 3 4 cu. in.
- MX200 11.75 7.63 6.88 13.63 8.81 3.63 1/4-18 –––––––––––– 2 4 . 0 9 5  cu. in.
- MX750 14.75 10.50 8.00 18.68 12.00 4.25 1/4-18 –––––––––––– 3 7 . 0 5 4 2 cu. in.
- MX1250 10.88 10.00 1.13 1.44 1.75 1.13 1.50 2.50 6.38 1/2-13 0.62 3/8-18 0.94 – 3.00 –––– 7 . 0 –
- MX60 8.94 5.88 5.69 11.18 8.00 3.50 1/4-18 –––––––––––– 1 8 . 0 4 0 cu. in.
- MX200 6.94 6.56 0.75 1.06 1.50 0.75 1.00 2.13 3.62 3/8-16 0.56 1/4-18 0.94 – 3.00 –––– 7 . 0 –
- MX750 14.75 10.50 8.00 18.68 12.00 4.25 1/4-18 –––––––––––– 3 7 . 0 5 4 2 cu. in.
- MX300 11.75 7.63 6.88 13.63 8.81 3.63 1/4-18 –––––––––––– 2 4 . 0 9 5  cu. in.
- MX450 22.38 16.68 10.13 26.18 16.00 8.38 1/4-18 –––––––––––– 102.0 196.3 cu. in.
- MX1250 21.00 10.88 12.50 20.38 12.00 3.75 1/4-18 –––––––––––– 4 0 . 0 0 6 3 4 cu. in.
- MX200 11.75 7.63 6.88 13.63 8.81 3.63 1/4-18 –––––––––––– 2 4 . 0 9 5  cu. in.
- MX750 14.75 10.50 8.00 18.68 12.00 4.25 1/4-18 –––––––––––– 3 7 . 0 5 4 2 cu. in.
- MX300 11.75 7.63 6.88 13.63 8.81 3.63 1/4-18 –––––––––––– 2 4 . 0 9 5  cu. in.
- MX450 22.38 16.68 10.13 26.18 16.00 8.38 1/4-18 –––––––––––– 102.0 196.3 cu. in.
On-Off
Torque Range: 347 lb in to 17,350 lb in
Housing: NEMA 4 & 4X
Electric Motor: 120 VAC, 1 PHASE, 60 Hz
Thermal Overload: Auto reset
Limit Switches: Adjustable cam operated
Position Indicator: Mechanical Dial Type
Space Heater: Located in the control compartment
Terminal Strip: Pre-wired for motor & limit switches
Manual Override: Directing acting
Brake: "Lock-cut" gear arrangement
Adjustable Mechanical Travel Stops
Torque Range: -13°F to 150°F
Located in the control compartment

Optional Features:
- Feedback Potentiometer
- Additional Limit Switches
- AC Voltages
- DC Voltages

Certification/Approvals:
- Temperature Range:
- Adjustable Mechanical Travel Stops
- Brake
- Terminal Strip
- Space Heater:
- Position Indicator
- Limit Switches
- Thermal Overload
- Electric Motor
- Housing
- Torque Range: "Lock-cut" gear arrangement
- Operating Pressure: 24 VAC 44010M - 44200M
- 220VAC, 1 PHASE, 60 Hz
- Directing acting
- Mechanical Dial Type
- Process Control Signal:
  - G 2.008 2.146 2.461 4.134 4.134
  - D 2.953 3.740 4.252 5.709 5.709
  - A 3.246 3.839 4.843 7.146 7.146
  - E 0.591 0.886 1.260 2.165 2.165
  - F 2.500 2.677 3.701 5.394 5.846
- Dimensions:
  - (63.5) (88.0) (94.0) (137.0) (148.5)
  - (63.5) (88.0) (94.0) (137.0) (148.5)
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Modulating
Process Control Signal: 4-20 mA, 0-10 VDC
Torque Range: 347 lb in to 17,350 lb in
Housing: NEMA 4 & 4X
Electric Motor: 120 VAC, 1 PHASE, 60 Hz
Thermal Overload: Auto reset
Limit Switches: Adjustable cam operated
Position Indicator: Mechanical Dial Type
Space Heater: Located in the control compartment
Terminal Strip: Pre-wired for motor & limit switches
Manual Override: Directing acting
Brake: "Lock-cut" gear arrangement
Adjustable Mechanical Travel Stops
Torque Switches: Adjustable open and close
De-clutchable Handwheel Override
Double External Travel Stops allow rotation adjustment
Powerful actuation in a compact and lightweight package
Stacking two vane actuators enable 180° movement (2-or 3-position)
Fail Safe (-FS) models use a pneumatic accumulator of up to ±10° at each end of the stroke

Optional Features:
- Limit Switch
- Loading Device
- Breather Block
- Solenoid Valve
- Positions
- High or low temperature trim
- PTFE interior coatings
- Sandwich de-clutchable manual gear override

Dimensions

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Specifications

<table>
<thead>
<tr>
<th>Metric</th>
<th>Inch</th>
<th>Weight</th>
<th>Tank Volume</th>
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</thead>
<tbody>
<tr>
<td>MX60FS</td>
<td>2400</td>
<td>60 lbs</td>
<td>–</td>
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<tr>
<td>MX1250FS</td>
<td>22.38</td>
<td>16.68</td>
<td>10.13</td>
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<tr>
<td>MX200FS</td>
<td>21.00</td>
<td>10.88</td>
<td>12.50</td>
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<td>MX450FS</td>
<td>14.69</td>
<td>9.93</td>
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<td>13.62</td>
<td>16.63</td>
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MX3000

<table>
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<th>Tank Volume</th>
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</thead>
<tbody>
<tr>
<td>MX3000</td>
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<td>16.63</td>
<td>1.50</td>
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MX1250

<table>
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<tr>
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<tbody>
<tr>
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<td>10.00</td>
<td>1.13</td>
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MX200

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<th>Weight</th>
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<tbody>
<tr>
<td>MX200</td>
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<td>6.56</td>
<td>0.75</td>
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MX60

<table>
<thead>
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<th>Weight</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MX60</td>
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<td>6.03</td>
<td>5.15</td>
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MX30

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</thead>
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<tr>
<td>MX30</td>
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MX10

<table>
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</thead>
<tbody>
<tr>
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MX6

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<tbody>
<tr>
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MX2

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<td>MX2</td>
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MX1

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<tbody>
<tr>
<td>MX1</td>
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<td>1.888</td>
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MX0

<table>
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</tr>
</thead>
<tbody>
<tr>
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<td>1.888</td>
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MX0.5

<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
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MX0.25

<table>
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<th>Inch</th>
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</tr>
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<tbody>
<tr>
<td>MX0.25</td>
<td>0.75</td>
<td>1.888</td>
<td>1.44</td>
</tr>
</tbody>
</table>

MX0.1

<table>
<thead>
<tr>
<th>Metric</th>
<th>Inch</th>
<th>Weight</th>
<th>Tank Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>MX0.1</td>
<td>0.50</td>
<td>1.888</td>
<td>1.44</td>
</tr>
</tbody>
</table>
**Flowseal**

- Class 150 – 600
- Sizes 2”–48”
- Wafer, Lug and Flange Body Styles
- Soft Seated; Zero Leakage
- Metal Seated; Zero Leakage
- Fire Safe, Meets API 607, Rev. 4
- Metric Valves per ISO-5752
- Mil-Spec Valves per MIL-V-24624(SH)

**Center Line**

- Rated to 150, 200 and 285 psi shut-off
- Sizes 2”–48”
- Wafer and Lug Body Styles
- Series 200 Cast Iron or Ductile Iron Body
- Series 225–285 psi shut-off
- Series 250-Carbon or Stainless Steel Body
- Series 800 Fully Elastomer Lined Check Valve
- 2-way and 3-way Assemblies

**Matryx® Vane**

- Electric Pneumatic
- Matryx® Vane

**Crane Actuators**

- Crane assembled and tested packages
- Crane know how
- Single source responsibility

**Design Features**

- **Flowseal**
- High Performance and Triple Offset Valves

**Phneumatic Actuator Series DA/SR**

- **Double Acting**
  - Standard Features:
    - Torque Range: 80 lb ins to 60,623 lb ins
    - Housing: Cast alloy aluminum, polyurethane coated
    - Mounting: ISO 5211
  - Optional Features:
    - Temperature Range: –4°F to 175°F
    - Size Range: 12 models to choose from
    - Adjustable Travel Stops: Both directions
    - Mounting: Direct mount to Center Line valves

- **Spring Return**
  - Standard Features:
    - Torque Range: 80 lb ins to 41,341 lb ins
    - Housing: Cast alloy aluminum, polyurethane coated
    - Mounting: ISO 5211
  - Optional Features:
    - Temperature Range: –4°F to 250°F, –40°F to 175°F
    - Solenoid Valves: 3- or 4-way
    - Limit Switches: Adjustable cam operated
    - Positioners: Pneumatic or Electro-pneumatic
    - DC-1 Dribble Control: Two-stage shutoff
    - Manual Override: De-clutchable gear type
    - Special Applications: Offshore, nuclear, hygienic, and gas or oil operation

**Crane Automation**

- Crane Warranty
- Competitive Prices
- Superior Service

**Crane**

- Crane Valves North America
  - 2015 Walnut Avenue
  - Long Beach, California 90807
  - Tel: 562-426-2531 • Fax: 562-490-9346
  - Visit Our Website For Our Featured Products.
  - www.cranevalve.com

**Dimensions**

- A 5.00 7.09 7.83 8.70 11.14 12.01 15.24 16.69 20.31 14.88 19.76
- B 6.00 8.03 9.80 10.51 14.17 15.24 18.78 20.35 25.08 22.44 32.83
- D 0.79 0.79 0.79 0.79 0.79 1.18 1.18 1.18 1.18 1.18
- F 2.09 2.26 2.48 2.87 3.71 4.45 4.96 5.59 7.28 7.87

**Crane Actuators**

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- Matryx® Vane

**Performance and Triple Offset Valves**

- Class 150 – 600
- Sizes 2”–48”
- Wafer, Lug and Flange Body Styles
- Soft Seated; Zero Leakage
- Metal Seated; Zero Leakage
- Fire Safe, Meets API 607, Rev. 4
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