ROSS CONTROLS

PRODUCT INFORMATION

SAFE CYLINDER RETURN DOUBLE VALVES

CrossMirror® CM Series

ROSS CONTROLS
## Valve and Base Assembly

### 5 Ports, 4-Way 2-Position Valve, Pressure Return

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Basic Size</th>
<th>Status Indicator Switch</th>
<th>Valve Model Number</th>
<th>Cv</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2, 4</td>
<td>0</td>
<td>Without</td>
<td>CM26PNA0A11</td>
<td>0.8</td>
<td>5.85 (2.7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>With</td>
<td>CM26PDGA0A11</td>
<td>0.6</td>
<td>5.20 (2.4)</td>
</tr>
<tr>
<td>1/4</td>
<td>0</td>
<td>Without</td>
<td>CM26PNA0A1X</td>
<td>0.6</td>
<td>1.25 (0.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>With</td>
<td>CM26PDGA0A1X</td>
<td>0.8</td>
<td>5.30 (2.4)</td>
</tr>
<tr>
<td>3/8</td>
<td>0</td>
<td>Without</td>
<td>CM26PNA0A11</td>
<td>0.6</td>
<td>1.75 (0.6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>With</td>
<td>CM26PDGA0A11</td>
<td>0.8</td>
<td>5.75 (2.6)</td>
</tr>
<tr>
<td>1/2</td>
<td>2</td>
<td>Without</td>
<td>CM26PNA2A11</td>
<td>0.6</td>
<td>1.25 (0.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>With</td>
<td>CM26PDGA2A11</td>
<td>0.8</td>
<td>5.40 (2.2)</td>
</tr>
</tbody>
</table>

### Valves, Manifold Bases, and End Stations for Manifold Assemblies

In addition to the manifold, an end station kit with a check valve must be ordered for each assembly. The number of manifolds with a single supply inlet will be limited to the pressure and flow rate of the system. Too many manifolds may result in too large of an internal pressure drop resulting in valve faults. The manifold end station kit with dual inlet check will allow the manifold to be supplied with air from both ends of the assembly.

### Valve without Sub-Base

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Basic Size</th>
<th>Status Indicator Switch</th>
<th>Model Number</th>
<th>NPT Threads</th>
<th>G Threads</th>
<th>Cylinders</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2, 4</td>
<td>With</td>
<td>CM26PXAOX11</td>
<td>Y1951D91</td>
<td>699K86</td>
<td>701K86</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Without</td>
<td>CM26PXAOX1X</td>
<td>Y1951D91</td>
<td>699K86</td>
<td>701K86</td>
</tr>
<tr>
<td>3/8</td>
<td>3/8</td>
<td>With</td>
<td>CM26PXAOX11</td>
<td>Y1949D91</td>
<td>699K86</td>
<td>700K86</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Without</td>
<td>CM26PXAOX1X</td>
<td>Y1949D91</td>
<td>699K86</td>
<td>700K86</td>
</tr>
<tr>
<td>1/2</td>
<td>1/2</td>
<td>With</td>
<td>CM26PXAX2A11</td>
<td>Y1955D91</td>
<td>702K86</td>
<td>704K86</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Without</td>
<td>CM26PXAX2A1X</td>
<td>Y1955D91</td>
<td>702K86</td>
<td>704K86</td>
</tr>
</tbody>
</table>

### Manifold Base Model Number

- With Remote Reset: CM26PNA00A11
- With Solenoid Reset: CM26PDGA00A21

### Manifold End Station Kit Number

- With Remote Reset: CM26PNA22A11
- With Solenoid Reset: CM26PDGA22A21

### Dual Supply Manifold End Station Kit Number

- With Remote Reset: CM26PNA22A1X
- With Solenoid Reset: CM26PDGA22A2X

### STANDARD SPECIFICATIONS

- **Construction Design:** Double Spool and Sleeve
- **Mounting Type:** Base
- **Solenoids:** According to VDE 0580. Two solenoids, rated for continuous duty.
- **Voltage:** 24 volts DC; 110 volts AC, 50 Hz/120 volts AC, 60 Hz
- **Power Consumption (each solenoid):** 14 watts on DC; 24 volts DC, 1.7 watts on AC, 120 volts AC, 60 Hz, 5.5 VA
- **Enclosure Rating:** DIN 400 50 IP 65
- **Electrical Connection:** Size 0: Connector socket according to EN 175301-803 Form C
- **Temperature:** Ambient: -40° to 122°F (-40° to 50°C)
- **Flow Media:** Filtered air
- **Inlet Pressure:** 40 to 150 psig (3 to 10 bar)
- **Pressure Switch (Status Indicator) Rating:** 5 amps at 250 volts AC, or 5 amps at 30 volts DC

### Explosion proof solenoid pilot available, for more information consult ROSS.

- **Construction Material:** Valve Body: Cast Aluminum
- **Seals:** Buna-N
- **Functional Safety Data:** Cat. 4, PL e; B: IEC 60529: IP 65
- **HSM:** 15026
- **Conformity:** ISO 13849-1

Meets Standards EN13736 and ANSI B11.2, Safety requirements for Pneumatic Cylinder Presses and other hazardous pneumatic cylinder applications.

These valves are not designed for controlling clutch/brake mechanisms on mechanical power presses.

**IMPORTANT NOTE:** Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.
CROSSMIRROR® Control Reliable Double Valves
with Dedicated Reset – Solenoid Pilot Controlled

Valve Technical Data
CM Series

End Station for Basic Size 0

End Station with Check Valve for Basic Size 0

Basic Size 0 - Valve and base assembly, with remote reset and with status indicator switch

Basic Size 0 - Valve and base assembly, with solenoid reset and with status indicator switch

Basic Size 0 - Valve and base assembly, with remote reset and without status indicator switch

Basic Size 0 - Valve and base assembly, with solenoid reset and without status indicator switch

Manifold Base for Basic Size 0

Valve Dimensions – inches (mm)

Dimensions – inches (mm)
Basic Size 2 - Valve and base assembly, with remote reset and with status indicator switch

Basic Size 2 - Valve and base assembly, with solenoid reset and with status indicator switch

Basic Size 2 - Valve and base assembly, with remote reset and without status indicator switch

Basic Size 2 - Valve and base assembly, with solenoid reset and without status indicator switch

Manifold Base for Basic Size 2

End Station for Basic Size 2

End Station with Check Valve for Basic Size 2
Normal Operation: The valve is operated by energizing both pilot solenoids simultaneously. This causes both main valve elements to be actuated so that air from inlet port 1 flows to outlet port 4, but not to port 2. Air downstream of port 2 is exhausted through port 3. When the solenoids are de-energized, both valve elements are de-actuated, and air then flows from inlet port 1 to outlet port 2, but no longer to outlet port 4. Air downstream of port 4 is exhausted through port 5. On first operation, or after repair, the pilot valve supply circuit and inherent monitoring elements may need to be reset.

Valve Locked-out: Whenever the valve elements operate in a sufficiently asynchronous manner, either on actuation or de-actuation, the valve will move to a locked-out position. In the locked-out position, one crossover and its related timing chamber will be exhausted, and the other crossover and its related timing chamber will be fully pressurized. The valve element (side B) that is partially actuated has pilot air available to fully actuate it, but no air pressure on the return piston to fully de-actuate the valve element.

Detecting a Malfunction: If the main valve elements are not both actuated or de-actuated synchronously, the valve defaults to the locked-out position so that outlet port 2 receives full inlet pressure, and outlet port 4 is exhausted through port 5. The valve must now be "reset" to resume normal operation.

Resetting the Valve: The valve will remain in the locked-out position, even if the inlet air supply is removed and re-applied. A remote reset signal must be applied to reset the valve. Reset is accomplished by momentarily pressurizing the reset port. Actuation of the reset piston physically pushes the main valve elements to their home position. Actuation of the reset piston also opens the reset poppet, thereby, immediately exhausting pilot supply air, thus, preventing valve operation during reset. De-actuation of reset pistons causes the reset poppets to close and pilot supply timing chambers to fully pressurize. Reset pressure can be applied by a remote 3/2 normally closed valve, or from an optional 3/2 normally closed solenoid (which includes an integral manual reset button) mounted on the reset adapter.

### Electrical Connectors

<table>
<thead>
<tr>
<th>Basic Valve Size</th>
<th>Electrical Connector Form</th>
<th>Electrical Connector Type</th>
<th>Cord Length</th>
<th>Cord Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>EN 175301-803</td>
<td>Prewired Connector</td>
<td>3 (10)</td>
<td>8-mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connector Only</td>
<td>– –</td>
<td>– –</td>
</tr>
<tr>
<td>2</td>
<td>EN 175301-803</td>
<td>Prewired Connector (18 gauge)</td>
<td>2 (6%)</td>
<td>6-mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connector Only (18 gauge)</td>
<td>– –</td>
<td>– –</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connector Only (1/2 inch electrical conduit fittings)</td>
<td>– –</td>
<td>– –</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connector Only</td>
<td>– –</td>
<td>– –</td>
</tr>
</tbody>
</table>

**CAUTIONS:** Do not use electrical connectors with surge suppressors, as this may increase valve response time when de-actuating the solenoids.

### Preassembled Wiring Kits

<table>
<thead>
<tr>
<th>Basic Valve Size</th>
<th>Solenoid Connector Type</th>
<th>Kit Number</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>EN 175301-803</td>
<td>2526H77</td>
<td>5 (16.4)</td>
</tr>
<tr>
<td></td>
<td>Form A and Form C</td>
<td>2527H77</td>
<td>10 (32.8)</td>
</tr>
<tr>
<td>2</td>
<td>EN 175301-803</td>
<td>2283H77</td>
<td>5 (16.4)</td>
</tr>
<tr>
<td></td>
<td>Form A</td>
<td>2284H77</td>
<td>10 (32.8)</td>
</tr>
<tr>
<td></td>
<td>M12</td>
<td>2289H77</td>
<td>5 (16.4)</td>
</tr>
</tbody>
</table>

* Each cable has one connector. Kits include 1 cable for the status indicator (EN 175301-803 Form A), and 3 cables (EN 175301-803 Form C) with connector plus a cord grip for each.

# Each cable has one connector. Kits include 1 cable for the status indicator, and 3 cables with connector plus a cord grip for each.

**IMPORTANT NOTE:** Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.
**Valve and Base Assembly**

<table>
<thead>
<tr>
<th>Port Sizes</th>
<th>Status Indicator Switch</th>
<th>Valve Model Number</th>
<th>C_v</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2, 4</td>
<td>With</td>
<td>CM26PNA00P11</td>
<td>0.8</td>
<td>6.15</td>
</tr>
<tr>
<td></td>
<td>Without</td>
<td>CM26PDA00P11</td>
<td>0.8</td>
<td>5.60</td>
</tr>
<tr>
<td>3/8, 3/8</td>
<td>With</td>
<td>CM26PNA01P11</td>
<td>0.8</td>
<td>6.05</td>
</tr>
<tr>
<td></td>
<td>Without</td>
<td>CM26PDA01P11</td>
<td>0.8</td>
<td>5.50</td>
</tr>
<tr>
<td>1/2, 1/2</td>
<td>With</td>
<td>CM26PNA22P11</td>
<td>3</td>
<td>14.45</td>
</tr>
<tr>
<td></td>
<td>Without</td>
<td>CM26PDA22P11</td>
<td>3</td>
<td>13.80</td>
</tr>
</tbody>
</table>

* Valve includes pressure switch status indicator with DIN type electrical connection, for pressure switch status indicator with M12 type electrical connection consult ROSS.

**Valves, Manifold Bases, and End Stations for Manifold Assemblies**

In addition to the manifold, an end station kit with a check valve must be ordered for each assembly. The number of manifolds with a single supply inlet will be limited to the pressure and flow rate of the system. Too many manifolds may result in too large of an internal pressure drop resulting in valve faults. The manifold end station kit with dual inlet check will allow the manifold to be supplied with air from both ends of the assembly.

### STANDARD SPECIFICATIONS (for valves on this page):

- **Construction Design**: Double spool and sleeve
- **Mounting Type**: Base
- **Temperature**: Ambient: 15°F to 122°F (-10°C to 50°C)
  - Media: 40°F to 175°F (4°C to 80°C)
- **Flow Media**: Filtered air
- **Operating Pressure**: 40 to 150 psig (3 to 10 bar)
  - Pilot supply pressure must be equal or greater than inlet pressure, but should not exceed maximum inlet pressure
- **Pressure Switch Rating**: Max Current 4A, Max 250 volts AC
  - Max Current 50 mA, Max 30 volts DC
- **Pressure Switch signal indicates when the input signals or parts movement is asynchronous.**

**Meets Standards EN13736 and ANSI B11.2, Safety requirements for Pneumatic Cylinder Presses and other hazardous pneumatic cylinder applications.**

**These valves are not designed for controlling clutch/brake mechanisms on mechanical power presses.**

**IMPORTANT NOTE:** Please read carefully and thoroughly all of the **CAUTIONS, WARNINGS** on the inside back cover.
**ROSSMIRROR® Control Reliable Double Valves**

*with Dedicated Reset – Pressure Controlled*

**Valve Technical Data**

**CM Series**

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### Valve Dimensions – inches (mm)

**Size 0 – Valve and base assembly, with remote reset and status indicator switch**

![Diagram](image1)

**Size 0 – Valve and base assembly, with remote reset and without status indicator switch**

![Diagram](image2)

**Size 2 – Valve and base assembly, with remote reset and status indicator switch**

![Diagram](image3)

**Size 2 – Valve and base assembly, with remote reset and without status indicator switch**

![Diagram](image4)

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**Dimensions – inches (mm)**

- **Manifold Base for Basic Size 0**
  - 3.60 (91.4) x 1.05 (26.7) x 3.00 (76.2)
- **End Station for Basic Size 0**
  - 1.90 (48.3) x 1.70 (43.2)
- **Manifold Base for Basic Size 2**
  - 4.82 (122.4) x 2.36 (59.7) x 5.02 (127.5)
- **End Station with Check Valve for Basic Size 0**
  - 3.66 (93.0) x 0.57 (14.5)
- **End Station for Basic Size 2**
  - 3.24 (82.3) x 1.30 (33.0) x 2.35 (59.7)
- **End Station with Check Valve for Basic Size 2**
  - 2.88 (73.0) x 2.38 (60.3) x 4.82 (122.4)
**Normal Operation:** The valve is operated by pressurizing both pilot supply ports simultaneously. This causes both main valve elements to be actuated so that air from inlet port 1 flows to outlet port 4, but not to port 2. Air downstream of port 2 is exhausted through port 3. When the pilot supply ports are de-pressurized, both valve elements are de-actuated, and air then flows from inlet port 1 to outlet port 2, but no longer to outlet port 4. Air downstream of port 4 is exhausted through port 5. On first operation, or after repair, the pilot valve supply circuit and inherent monitoring elements may need to be reset.

**Valve Locked-out:** Whenever the valve elements operate in a sufficiently asynchronous manner, either on actuation or de-actuation, the valve will move to a locked-out position. In the locked-out position, one crossover and its related timing chamber will be exhausted, and the other crossover and its related timing chamber will be fully pressurized. The valve element (side B) that is partially actuated has pilot air available to fully actuate it, but no air pressure on the return piston to fully de-actuate the valve element. The return springs are limited in travel, and can only return the valve elements to the intermediate (locked-out) position. Sufficient air pressure acting on the return pistons is needed to return the valve elements to a fully home position.

**Detecting a Malfunction:** If the main valve elements are not both actuated or de-actuated synchronously, the valve defaults to the locked-out position so that outlet port 2 receives full inlet pressure, and outlet port 4 is exhausted through port 5. The valve must now be “reset” to resume normal operation.

**Resetting the Valve:** The valve will remain in the locked-out position, even if the inlet air supply is removed and re-applied. A remote reset signal must be applied to reset the valve. Reset is accomplished by momentarily pressurizing the reset port. Actuation of the reset piston physically pushes the main valve elements to their home position. Actuation of the reset piston also opens the reset poppet, thereby, immediately exhausting pilot supply air, thus, preventing valve operation during reset. De-actuation of reset pistons causes the reset poppets to close and pilot supply timing chambers to fully pressurize. Reset pressure can be applied by a remote 3/2 normally closed valve.

**Status Indicator:** The optional status indicator pressure switch will actuate when the main valve is operating normally, and will de-actuate when the main valve is in the locked-out position or inlet pressure is removed. This device is not part of the valve lockout function, but, rather, only reports the status of the main valve.

### OPTIONS – FOR Verification Of Downstream PRESSURE RELEASE

**Pressure Switches (Electrical) for Energy Release Verification**

<table>
<thead>
<tr>
<th>Connection Type</th>
<th>Model Number</th>
<th>Port Threads</th>
<th>EN Connector Pinout</th>
<th>M12 Connector Pinout</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 175301-803</td>
<td>586A86 Form A</td>
<td>1/8 NPT</td>
<td>Normally Open</td>
<td>Pin 4 Normally Open</td>
</tr>
<tr>
<td>M12</td>
<td>1153A30</td>
<td></td>
<td>Normally Open</td>
<td>Pin 1 Normally Open</td>
</tr>
</tbody>
</table>

Factory preset, 5 psi (0.3) - falling
May be installed on all valves with pressure sensing port. Provides means to verify the release of downstream pressure to next obstruction.

**Redundant Downstream Feedback Switch for Energy Release Verification**

<table>
<thead>
<tr>
<th>Connection Type</th>
<th>Model Number</th>
<th>Port Threads</th>
<th>EN Connector Pinout</th>
<th>M12 Connector Pinout</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 175301-803</td>
<td>RC026-13</td>
<td>3/8 NPT</td>
<td>Normally Open</td>
<td>Pin 2 Normally Closed</td>
</tr>
</tbody>
</table>

Factory preset, 5 psi (0.3) - falling
May be installed downstream on all double valves. Provides a redundant means to verify the release of downstream pressure to next obstruction.
CAUTIONS, WARNINGS And STANDARD WARRANTY

ROSS OPERATING VALVE, ROSS CONTROLS®, ROSS DECCO®, and AUTOMATIC VALVE INDUSTRIAL, collectively the “ROSS Group”.

PRE-INSTALLATION or SERVICE
1. Before servicing a valve or other pneumatic component, be sure all sources of energy are turned off, the entire pneumatic system is shut down and exhausted, and all power sources are locked out (ref: OSHA 1910.147, EN 1037).
2. All ROSS Group Products, including service kits and parts, should be installed and/or serviced only by persons having training and experience with pneumatic equipment. Because any product can be tampered with and/or need servicing after installation, persons responsible for the safety of others or the care of equipment must check ROSS Group Products on a regular basis and perform all necessary maintenance to ensure safe operating conditions.
3. All applicable instructions should be read and complied with before using any fluid power system. Do not expose these products to certain fluids, such as alcohol or liquefied petroleum gas, as they can cause bowls to rupture, creating a combustible condition. Use plastic bowls are designed for compressed air applications only. Use a filter with a 5-micron rating for normal applications.
4. Each ROSS Group Product should be used within its specification limits. In addition, use only ROSS Group components to repair ROSS Group Products.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

FILTRATION and LUBRICATION
1. Dirt, scale, moisture, etc., are present in virtually every air system. Although some valves are more tolerant of these contaminants than others, best performance will be realized if a filter is installed to clean the air supply, thus preventing contaminants from interfering with the proper performance of the equipment. The ROSS Group recommends a filter with a 5-micron rating for normal applications.
2. All standard ROSS Group filters and lubricators with polycarbonate plastic bowls are designed for compressed air applications only. Use the metal bowl guard, where provided, to minimize danger from high pressure fragmentation in the event of bowl failure. Do not expose these products to certain fluids, such as alcohol or liquefied petroleum gas, as they can cause bows to rupture, creating a combustible condition and hazardous leakage. Immediately replace crazed, cracked, or deteriorated bowls.
3. Only use lubricants which are compatible with materials used in the valves and other components in the system. Normally, compatible lubricants are petroleum base oils with oxidation inhibitors, an aniline point between 180°F (82°C) and 220°F (104°C), and an ISO 32, or lighter, viscosity. Avoid oils with phosphate type additives which can harm polyurethane components, potentially leading to valve failure which risks personal injury, and/or damage to property.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

AVOID INTAKE/EXHAUST RESTRICTION
1. Do not restrict air flow in the supply line. To do so could reduce the pressure of the supply air below minimum requirements for the valve and thereby causing erratic action.
2. Do not restrict a valve's exhaust port as this can adversely affect its operation. Exhaust silencers must be resistant to clogging and must have flow capacities at least as great as the exhaust capacities of the valves. Contamination of the silencer can result in reduced flow and increased back pressure.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

SAFETY APPLICATIONS
1. Mechanical Power Presses and other potentially hazardous machinery using a pneumatically controlled clutch and brake mechanism must use a press control double valve with a monitoring device. A double valve without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All double valve installations involving hazardous applications should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.
2. Safety exhaust (dump) valves without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All safety exhaust valve installations should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.
3. Per specifications and regulations, the ROSS L-O-X® and L-O-X® with EEZ-ON®, N06 and N16 Series operation products are defined as energy isolation devices, NOT AS EMERGENCY STOP DEVICES.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

STANDARD WARRANTY
All products sold by the ROSS Group are warranted for a one-year period [with the exception of Filters, Regulators and Lubricators (“FRLs”) which are warranted for a period of seven (7) years] from the date of purchase. All products are, during their respective warranty periods, warranted to be free of defects in material and workmanship. The ROSS Group’s obligation under this warranty is limited to repair, replacement or refund of the purchase price paid for products which the ROSS Group has determined, in its sole discretion, are defective. All warranties become void if a product has been subject to misuse, misapplication, improper maintenance, modification or tampering. Products for which warranty protection is sought must be returned to the ROSS Group freight prepaid.

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Full-Service Global Locations
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Other literature is available for engineering, maintenance, and service requirements.

If you need products or specifications not shown in this catalog, please visit ROSS’ website, contact ROSS or your ROSS distributor. The ROSS Support Team will be happy to assist you in selecting the best product for your application.

For a current list of countries and local distributors, visit ROSS’ at rosscontrols.com.