



PRODUCT INFORMATION

VALVE ACCESSORIES



ROSS CONTROLS

| SILENCERS | | | | | | | |
|-----------|-------------|--------------|--------------|---------------------|------------------------|-----------|----------------|
| Port Size | Thread Type | Model Number | | Avg. C _v | Dimensions inches (mm) | | Weight lb (kg) |
| | | NPT Threads | R/Rp Threads | | Length | Width | |
| 1/8 | Male | 5500A1003 | D5500A1003 | 1.2 | 0.9 (21) | 2.0 (51) | 0.1 (0.1) |
| 1/4 | Male | 5500A2003 | D5500A2003 | 2.1 | 0.9 (21) | 2.2 (55) | 0.1 (0.1) |
| 3/8 | Male | 5500A3013 | D5500A3013 | 2.7 | 0.9 (21) | 2.2 (55) | 0.1 (0.1) |
| | | 5500A3003 | D5500A3003 | 4.3 | 1.3 (32) | 3.5 (88) | 0.2 (0.1) |
| 1/2 | Male | 5500A4003 | D5500A4003 | 4.7 | 1.3 (32) | 3.6 (91) | 0.2 (0.1) |
| 3/4 | Male | 5500A5013 | D5500A5013 | 5.1 | 1.3 (32) | 3.6 (92) | 0.2 (0.1) |
| | | 5500A5003 | D5500A5003 | 11.5 | 2.0 (51) | 5.3 (135) | 0.6 (0.3) |
| 1 | Male | 5500A6003 | D5500A6003 | 14.6 | 2.0 (51) | 5.4 (138) | 0.6 (0.3) |
| 1¼ | Male | 5500A7013 | D5500A7013 | 16.4 | 2.0 (51) | 5.5 (140) | 0.6 (0.3) |
| | Female | 5500A7001 | D5500A7001 | 24 | 2.5 (64) | 5.7 (144) | 1.0 (0.5) |
| 1½ | Female | 5500A8001 | D5500A8001 | 29.9 | 2.5 (64) | 5.7 (144) | 1.0 (0.5) |
| 2 | Female | 5500B9001 | D5500B9001 | 34.2 | 3.0 (76) | 6.6 (168) | 1.5 (0.7) |
| 2½ | Female | 5500A9002 | D5500A9002 | 103.7 | 4.0 (102) | 5.7 (145) | 2.9 (1.4) |

Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. **Flow Media:** Filtered air.



Port size
1/8 thru 2

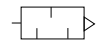


Port size 2½



| Stainless Steel SILENCERS | | | | | | | | |
|---------------------------|-------------|--------------|--------------|---------------------|------------------------|-------------|----------------|--|
| Port Size | Thread Type | Model Number | | Avg. C _v | Dimensions inches (mm) | | Weight lb (kg) | Construction |
| | | NPT Threads | R/Rp Threads | | Length | Width | | |
| 1/4 | Male | 5500B2004 | D5500B2004 | 1.44 | 1.75 (44.5) | 0.56 (14.2) | 0.05 (0.23) | Stainless steel |
| 1/2 | Male | 5500B4004 | D5500B4004 | 3.01 | 2.75 (69.7) | 0.87 (22.1) | 0.25 (0.11) | |
| 1 | Male | 5500B6004 | D5500B6004 | 10.41 | 3.87 (98.3) | 1.31 (33.3) | 0.45 (0.20) | NPT - Stainless steel |
| 2 | Male | 5500A9004 | D5500A9004 | 28.11 | 5.50 (139.7) | 2.37 (60.2) | 1.5 (0.68) | R - Nickel plated cold rolled steel Nickel plated cold rolled steel |

Supplied with a standard pipe thread fitting for attaching directly to the exhaust ports of air-operated equipment.
Pressure Range: 0 to 175 psig (0 to 12.3 bar) maximum. **Flow Media:** Filtered air.



| SILENCERS for Stainless Steel L-O-X® Air Entry Assemblies | | | | | | | |
|---|-------------|--------------|-------------|---------------------|------------------------|-----------|---|
| Port Size | Thread Type | Model Number | | Avg. C _v | Dimensions inches (mm) | | Description |
| | | NPT Threads | BSP Threads | | Length | Width | |
| 1/4 | Male | 5500A2005 | D5500A2005 | 1.5 | 1.50 (38) | 0.67 (17) | Pressure Range: 0 to 125 psig (0 to 8.6 bar) maximum. Seals: Nitrile. |
| 1/2 | Male | 5500A4005 | D5500A4005 | 3.5 | 2.17 (55) | 0.94 (24) | |
| 1 | Male | 5500A6005 | D5500A6005 | 5.7 | 2.95 (75) | 1.41 (36) | |

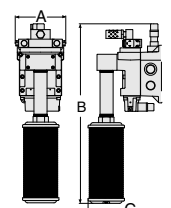


| Noise-Reduction SILENCERS for DM ¹ & DM ² ® Series C Double Valves | | | | | | | | |
|--|------------|-------------|--------------|-------------|------------------------|----------------|----------------|---------------|
| Valve Model | Basic Size | Kit Number* | | Flow scfm | Dimensions inches (mm) | | | |
| | | NPT Threads | R/Rp Threads | | A | B (NPT) | B (R) | C |
| DM Series C | 2 | 2324H77 | 2329H77 | 800 (378) | 4.34 (110.2) | 19.06 (484.1) | 21.40 (543.6) | 7.27 (184.7) |
| | 4 | 2324H77 | 2329H77 | 800 (378) | 4.34 (110.2) | 19.06 (484.1) | 21.40 (543.6) | 7.27 (184.7) |
| | 8 | 2325H77 | 2329H77 | 800 (378) | 5.41 (137.4) | 21.18 (538.0) | 23.52 (597.4) | 8.41 (213.6) |
| | 12 | 2326H77 | 2330H77 | 2080 (982) | 6.74 (117.2) | 25.85 (656.6) | 28.20 (716.3) | 10.66 (270.8) |
| | 30 | 2327H77 | 2331H77 | 7200 (3398) | 9.85 (250.2) | 41.55 (1055.4) | 41.55 (1055.4) | 13.47 (342.1) |

Pressure Range: 125 psig (8.6 bar) maximum.
* Kits include all plumbing required for installation.
Reduces the Exponentially Perceived Noise (EPNdB), Impact noise reduction in the 35–40 dB range
Recommended for air exhaust applications for pressures up to 125 psig (8.6 bar)
Pressure Range – 125 psig (8.6 bar) maximum



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



| Noise-Reduction SILENCERS for DM ² ® Series D Double Valves | | | | | | Description |
|--|-------------|--------------|-------------|------------------------|-----------|---|
| Valve Basic Size | Thread Type | Kit Number*# | Flow scfm | Dimensions inches (mm) | | |
| | | | | Height | Width | |
| 4 | NPT | 2324H77 | 800 (378) | 19.1 (484) | 4.4 (110) | Reduces the Exponentially Perceived Noise (EPNdB), Impact noise reduction in the 35–40 dB range Recommended for air exhaust applications for pressures up to 125 psig (8.6 bar) Pressure Range – 125 psig (8.6 bar) maximum |
| | BSPT | 2329H77 | 800 (378) | 21.4 (544) | 4.4 (110) | |
| 8 | NPT | 2325H77 | 800 (378) | 21.2 (538) | 5.4 (138) | |
| | BSPT | 2330H77 | 800 (378) | 23.5 (598) | 5.4 (138) | |
| 12 | NPT | 2326H77 | 2080 (982) | 25.9 (657) | 6.8 (117) | |
| | BSPT | 2331H77 | 2080 (982) | 28.2 (716) | 6.8 (117) | |
| 30 | NPT | 2327H77 | 7200 (3398) | 41.6 (1056) | 9.9 (250) | |
| | BSPT | 2332H77 | | | | |

* Kits include all plumbing required for installation.
Exhaust flange kit required, see below ordering information.



| Exhaust Flange Kits for Noise Reduction Silencers | Valve Basic Size | Port Size | Kit Number | | Used when installing noise reduction silencers |
|---|------------------|-----------|-------------|-----------|--|
| | | | NPT Threads | G Threads | |
| | 4 | 1 | 726B25 | D276B25 | |
| 8 | 1 | 617B25 | D617B25 | | |
| 12 | 1½ | 619B25 | D619B25 | | |
| 30 | 2½ | 621B25 | D621B25 | | |

Electrical CONNECTORS & CORD Sets

| Connection Type | EN 175301-803 Connector | | Fitting Connection | Cord Type/Termination | | Length meters (feet) | Cord Diameter | Model Number | | | Cord Quantity |
|-----------------|-------------------------|-----------|--------------------|-----------------------|--------------|----------------------|---------------|---------------|-------------------|-----------|---------------|
| | Option | Form | | End 1 | End 2 | | | Without Light | Lighted Connector | | |
| | | | | | | | | | 24 V DC | 120 V AC | |
| Solenoid | Connector Only | A | – | – | – | – | – | 937K87 | 936K87-W | 936K87-Z | – |
| | | A | 1/2" NPT conduit | – | – | – | – | 723K77 | 724K77-W | 724K77-Z | – |
| | | B | – | – | – | – | – | 372K77 | 328K77-W | 328K77-Z | – |
| | | C | – | – | – | – | – | 2452K77 | 2453K77-W | 2453K77-Z | – |
| | Prewired Connector | A | – | Connector | Flying leads | 2 (6.5) | 6-mm | 721K77 | 720K77-W | 720K77-Z | 1 |
| | | | | | | 10-mm | 371K77 | 383K77-W | 383K77-Z | 1 | |
| | | | | | | 5 (16.4) | – | 2243H77 | – | – | 2 |
| | | 10 (32.8) | – | 2244H77 | – | – | 2 | | | | |
| | | B | – | Connector | Flying leads | 2 (6.5) | 10-mm | 266K77 | 267K77-W | 267K77-Z | 1 |
| | | C | – | Connector | Flying leads | 2 (6.5) | 5-mm | – | 2476K77-W | 2476K77-Z | 1 |
| | | | | | | 3 (10) | 8-mm | 2449K77 | 2450K77-W | 2450K77-Z | 1 |



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

PRESSURE Indicators

| H Pop-Up (Visual) Indicator | Model Number | Port Threads | May be installed on all valves with pressure sensing port. Provides a means to verify the release of downstream pressure to next obstruction. |
|------------------------------------|--------------|--------------|---|
| | 988A30 | 1/8 NPT | |



| Stainless Steel Visual Indicator | Model Number | Port Threads | Dimensions inches (mm) | | Weight lb (kg) | |
|----------------------------------|--------------|--------------|------------------------|---|----------------|--|
| | 1155H30 | 1/8 NPT | A | B | 0.22 (0.1) | |

316 Stainless Steel Body, Internals and Springs, Nitrile Seals
Visual Indicator piston, Acetal; Visual Indicator assembly, Acetal with acrylic lens



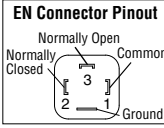
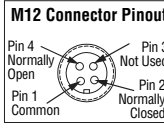
| Status Indicator | Model Number | The Status Indicator pressure switch actuates when the valve is in a ready-to-run condition and de-actuates when the valve is in a lockout condition or when the inlet air pressure has been removed. |
|------------------|--------------|---|
| | 670B94 | |




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


PRESSURE SWITCHES For Verification Of Downstream Pressure Release

| Pressure Switch Type | Connection Type | Model Number | Port Threads |
|--|----------------------|--------------|--------------|
| Pressure Switches (Electrical) for Energy Release Verification | EN 175301-803 Form A | 586A86 | 1/8 NPT |
| | M12 | 1153A30 | |
| Redundant Downstream Feedback Switch for Energy Release Verification | EN 175301-803 Form A | RC026-13 | 3/8 NPT |



Factory preset, 5 psi (0.3) - falling



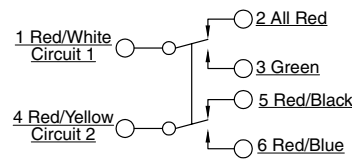
May be installed on all valves with pressure sensing port.
Provides means to verify the release of downstream pressure to next obstruction.

| Stainless Steel Pressure Switch | Inlet Port Size | Model Number | Weight lb (kg) |
|---------------------------------|-----------------|--------------|----------------|
| | 1/8 | 1162A30 | 0.23 (.01) |

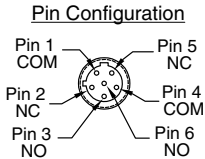
316 Stainless Steel Body, Nitrile Seals, DPDT (Double-Pole Double-Throw Switch)
Factory preset 5 psi (falling)

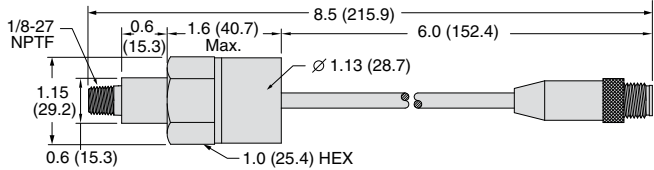


NPT port threads.



Pin Configuration



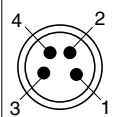


Digital PRESSURE TRANSDUCER For Digital Pressure Readout

| Digital Pressure Transducer | Threads | Model Number | Pressure Range psig (bar) | Description | | | |
|-----------------------------|---------|--------------|---------------------------|-------------------------|-----------------------|-------------------------|----------------|
| | | | | Electrical Output | Electrical Connection | Pressure Port Size/Type | Weight lb (Kg) |
| | NPT | 760B94 | 0 (0) to 145 (10) | (1) PNP with (1) 4-20ma | M8, 4 Pin | 1/8 NPT male | 0.099 (0.045) |
| G | D760B94 | | | | | | |

Analog 4-20mA Output, and Transistor Switching Output.

Sensor Pinout with Analog Output





Wire Colors

- 1 - Brown - 24 VDC
- 2 - White - 4 to 20mA
- 3 - Blue - 0 VDC
- 4 - Black PNP Open Collector Output 1



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Pressure GAUGES

| | Type/Material | Port Size | Model Number | | Pressure Range psig (bar) | Case Diameter inches (mm) |  |
|---|----------------------------------|-----------|--------------|-------------|------------------------------|------------------------------|---|
| | | | NPT Threads | G Threads | | | |
| Pressure Gauges (Center Back Mounting) | Standard Aluminum | 1/8 | 5400A1002 | D5400A1002 | 0-160 (0-11) | 1.7 (43) |  |
| | | 1/4 | 5400A2010 | D5400A2010 | 0-60 (0-4) | 2.0 (51) | |
| | | 1/4 | 5400A2011 | D5400A2011 | 0-200 (0-14) | 2.0 (51) | |
| | | 1/4 | 5400A2012 | D5400A2012 | 0-300 (0-20) | 2.0 (51) | |
| | Liquid Filled Stainless Steel | 1/4 | 5400A2014 | D5400A2014 | 0-160 (0-11) | 2.5 (64) | |
| | | 1/4 | 5400A2015* | D5400A2015* | 0-160 (0-11) | 2.0 (51) | |


* Green shade between 40-70 psi (2.7-4.8 bar).

Multiple Lock-out Device

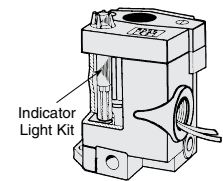
| Model Number | |
|--------------|---|
| 356A30 | For use with any ROSS model valve with L-O-X® capability. Allows use of multiple lockout devices on a single energy isolation device. |






INDICATOR Light Kits for valves with Solenoid Controlled Pacer Pilot

| Indicator Light Kits for 27 & 21 Series and SV27 & SV27 PO Check Valves | Kit Number | | | Indicator Light  |
|---|-------------|------------------------------|-----------------------|---|
| | 24 volts DC | 110-120 volts AC 50-60 Hz | 220 volts 50-60 Hz | |
| | 862K87-W | 862K87-Z | 862K87-Y | |

To visually verify valve operation indicator lights are available in kit form. The indicator light extends through the solenoid or pilot cover and is illuminated when the solenoid is energized. Such lights are standard on double solenoid valves. Indicator light kit is available for single solenoid models.



| Manual Override Kits | Flush Button | |  | Extended Button | |  | Extended Button with Palm | |  |
|-------------------------|--------------|------------|---|-----------------|------------|--|---------------------------|------------|---|
| | Locking Type | Kit Number | | Locking Type | Kit Number | | Locking Type | Kit Number | |
| | Non-Locking | 790K87 | | Non-Locking | 791K87 | | Non-Locking | 984H87 | |
| Locking | 792K87 | Locking | — | Locking | — | | | | |

Flush flexible manual overrides are standard on single solenoid models. Double solenoid models have flush metal-button overrides. Both types are non-locking. Each of the buttons in the override kits below is made of metal and is spring-returned. The locking type button, however, can be kept in the actuated position by turning the slot in the top of the button with a screwdriver.

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CONNECTORS & CORD Sets

| Connection Type | Connector Option | Connector Form | Fitting Connection | Cord Type/Termination | | Length meters (feet) | Cord Diameter | Model Number | | Cord Quantity |
|-----------------|--------------------|-----------------------------|--------------------|-----------------------|--------------|----------------------|---------------|---------------|-------------------------------|---------------|
| | | | | End 1 | End 2 | | | Without Light | Lighted Connector 24 Volts DC | |
| Solenoid | Connector Only | EN 175301-803 Form A | - | - | - | - | - | 937K87 | 936K87-W | - |
| | | | 1/2" NPT conduit | - | - | - | - | 723K77 | 724K77-W | - |
| | Prewired Connector | EN 175301-803 Form A | - | Connector | Flying leads | 2 (6.5) | 6-mm | 721K77 | 720K77-W | 1 |
| | | | | | | 5 (16.4) | - | 2243H77 | - | 2 |
| | | | | | | 10 (32.8) | - | 2244H77 | - | 2 |
| Sensor | Prewired Connector | M12 5-pin, straight A-coded | - | Female | Flying leads | 5 (16.4) | - | 2644B77 | - | 2 |
| | | | | | Male | 5 (16.4) | - | 2645B77 | - | 2 |
| | | | | | Flying leads | 10 (32.8) | - | 2370B77 | - | 2 |
| | | | | | Male | 10 (32.8) | - | 2371B77 | - | 2 |



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



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 to prevent harm to persons or equipment. In addition, overhauled or serviced valves must be functionally tested prior to installation and use. If you have any questions, call your nearest ROSS Group location.
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 bowls 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

There are ROSS Distributors Throughout the World

To meet your requirements across the globe, ROSS distributors are located throughout the world. Through ROSS or its distributors, guidance is available for the selection of ROSS products, both for those using pneumatic components for the first time and those designing complex systems.

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.