



# SAFE AIR ENTRY ASSEMBLIES WITH SV27 SERIES VALVES

## PRODUCT CATALOG



# Safe Air Entry Assemblies with Sensing Valves SV27 Series

## Product Overview

Safe air entry assembly for Pneumatic Control and Air Dump/Release applications.

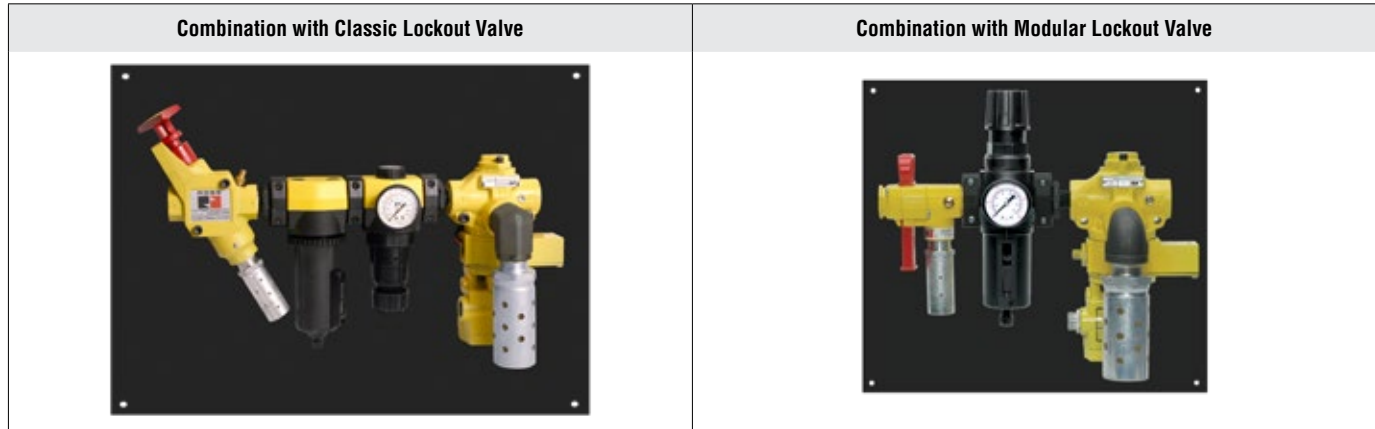


Illustration examples.

Air entry system via a manual Lockout L-O-X<sup>®</sup> valve, air preparation FRL combinations, and an SV27 Series Safe Exhaust sensing valve. ROSS systems have the same quality that you have come to expect from ROSS components. Units are fully configurable, tested and ready for quick and easy installation at the job site.

- Custom designs available, consult ROSS.
- Explosion proof solenoid pilot available, for more information consult ROSS.

Mounting accessories are used for modular connection to ROSS MD Series Filter-Regulator units. Bracket, Screw, Clamp and Mounting Adapter required for mounting.

### ASSEMBLY COMPONENTS & FEATURES

#### Energy Isolation Lockout L-O-X<sup>®</sup> Valve 15 Series

- 3/2 valve
- Classic L-O-X<sup>®</sup> or Modular L-O-X<sup>®</sup>
- Lockable only in the OFF position
- Has a full size exhaust port (equal to or larger than supply)
- Simple push/pull of the large handle provides positive direct manual operation
- Fluorocarbon slipper seals for easy shifting, even after long periods of inactivity
- Integrated sensing port for pressure verification or visual indicator
- High flow, clog resistant; silencers included

#### Filter and Regulator (FR), Integrated Filter/Regulator (F/R), or Filter, Regulator, and Lubricator (FRL) MD Series

- Filter, Pressure Regulator, and Lubricator with metal bowls, or Filter/Regulator (Filter and Pressure Regulator combined into a single unit) with high-strength polycarbonate plastic bowl
- 5-micron filter element
- Automatic filter drain
- Self relieving regulator
- Analog gauge

#### Safe Exhaust Sensing Valve SV27 Series

- 3/2 valve
- Senses internal position & state
- Electrical feedback via DPST switch (Double-Pole Single-Throw)
- Directly operated safety-rated force-guided positive-break status switch (DPST)
- Poppet construction for near zero leakage & dirt tolerance

#### Mounting

Mounting plate, direct piping assembly

#### SISTEMA Library

Available for download

**NOTE: Per specifications and regulations, lockout L-O-X<sup>®</sup> products are defined as energy isolation devices, NOT AS EMERGENCY STOP DEVICES. These valve assemblies are not designed for controlling clutch/brake mechanisms on mechanical power presses.**

## MODELS with CLASSIC MANUAL LOCKOUT L-O-X® VALVES

Port Size		Port Thread	Air Preparation		Air Entry Assembly Model Number #		
In-Out 1, 2	Exhaust 3		Series	Type	Voltage*		
				24 volts DC	110-120 volts AC 50/60 Hz	230 volts AC 50/60 Hz **	
1/2	1/2	NPT	MD4™	FR	RC208-06W	RC208-06Z	RC208-06Y
				FRL	RC208L-06W	RC208L-06Z	RC208L-06Y
3/4	3/4	NPT	MD4™	FR	RC212-06W	RC212-06Z	RC212-06Y
				FRL	RC212L-06W	RC212L-06Z	RC212L-06Y
1	1	NPT	High-Capacity	FR	RC216-06W	RC216-06Z	RC216-06Y
				FRL	RC216L-06W	RC216L-06Z	RC216L-06Y

# Silencer included.

\* For other voltages consult ROSS.  
\*\* 230 VAC not available in the U.S. (OSHA regulations limit control voltage to no more than 120 volts AC).

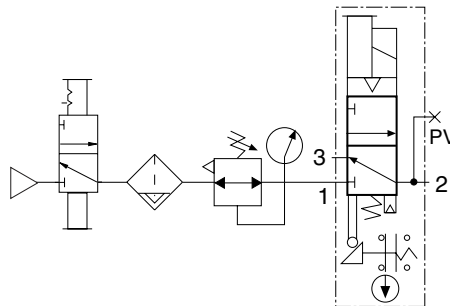
## MODELS with MODULAR MANUAL LOCKOUT L-O-X® VALVES

Port Size		Port Thread	Air Preparation		Air Entry Assembly Model Number #		
In-Out 1, 2	Exhaust 3		Series	Type	Voltage*		
				24 volts DC	110-120 volts AC 50/60 Hz	230 volts AC 50/60 Hz **	
1/2	1/2	NPT	MD3™	F/R	RC208-09W	RC208-09Z	RC208-09Y
				FRL	RC208L-09W	RC208L-09Z	RC208L-09Y

# Silencer included.

\* For other voltages consult ROSS.  
\*\* 230 volts AC not available in the U.S. (OSHA regulations limit control voltage to no more than 120 volts AC).

### Assembly Schematic



### PRODUCT CREDENTIALS

Performance Level Per ISO 13849-1:2015	Safety Integrity Level Per IEC 2061:2001	TÜV Rheinland Per ISO 9001:2015	Declaration of Conformity	Certificate of Compliance
		 Precisely Right.		

# Assembly Technical Data

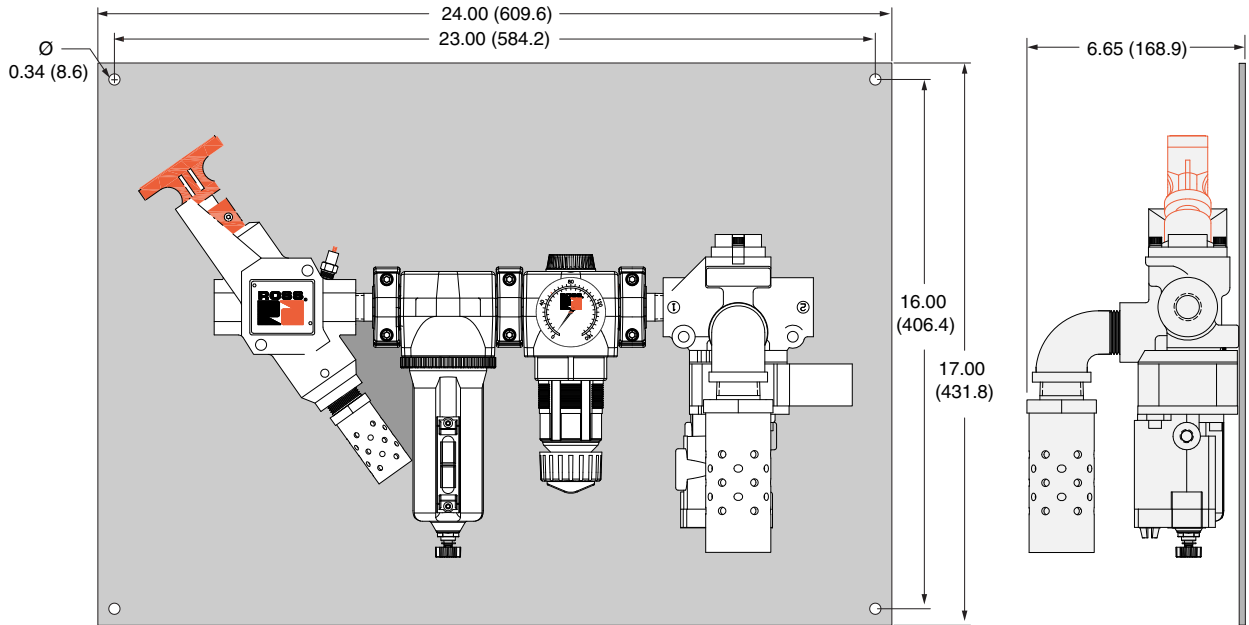
## Models with Classic Lockout L-O-X® Valve

### DIMENSIONS

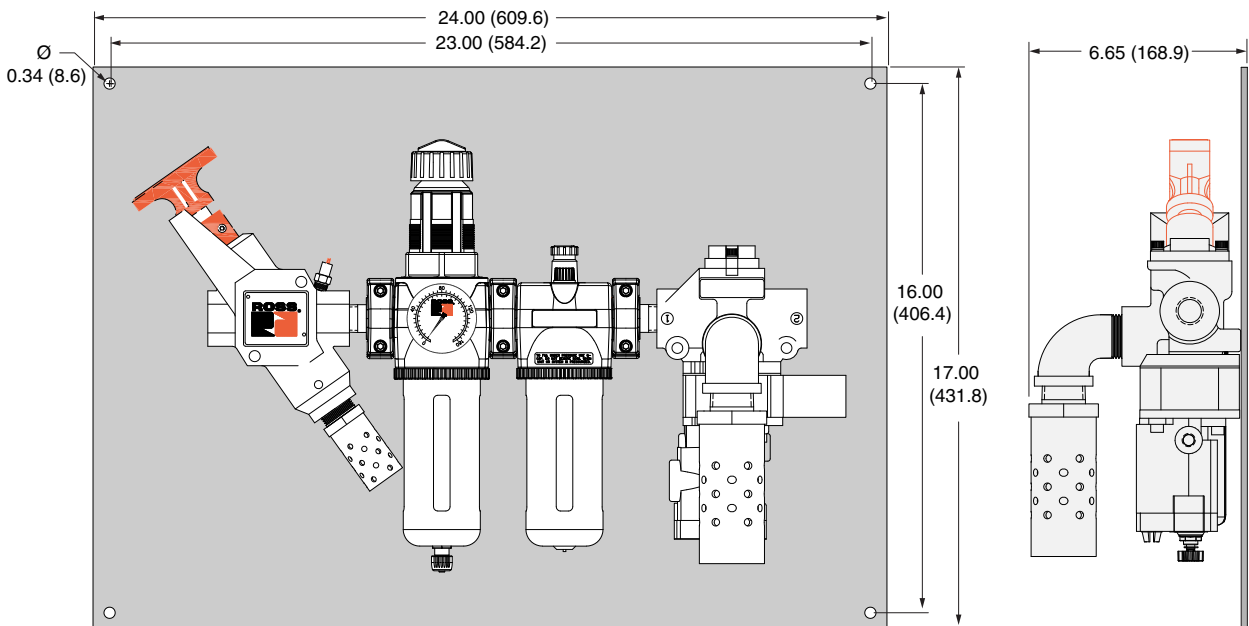
Inches (mm)

#### Port Size 1/2"

##### with MD4™ Filter and Regulator option



##### with MD4™ Integrated Filter/Regulator and Lubricator option



Combinations example.

Downloadable CAD models available.

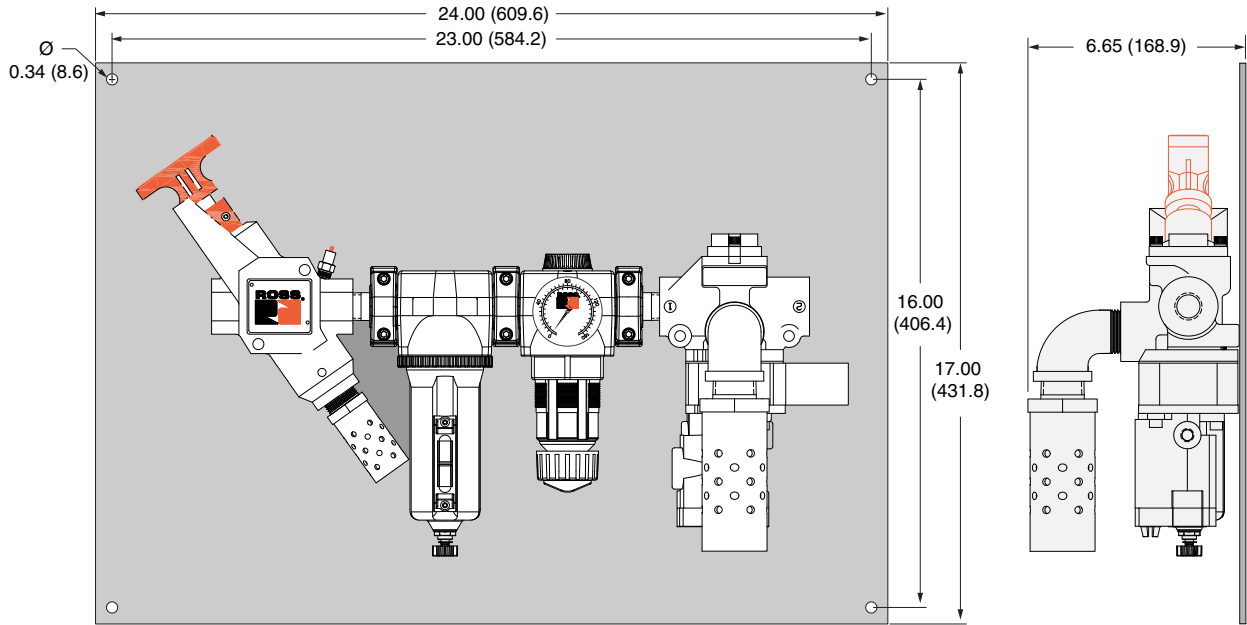
## Models with Classic Lockout L-O-X® Valve

### DIMENSIONS

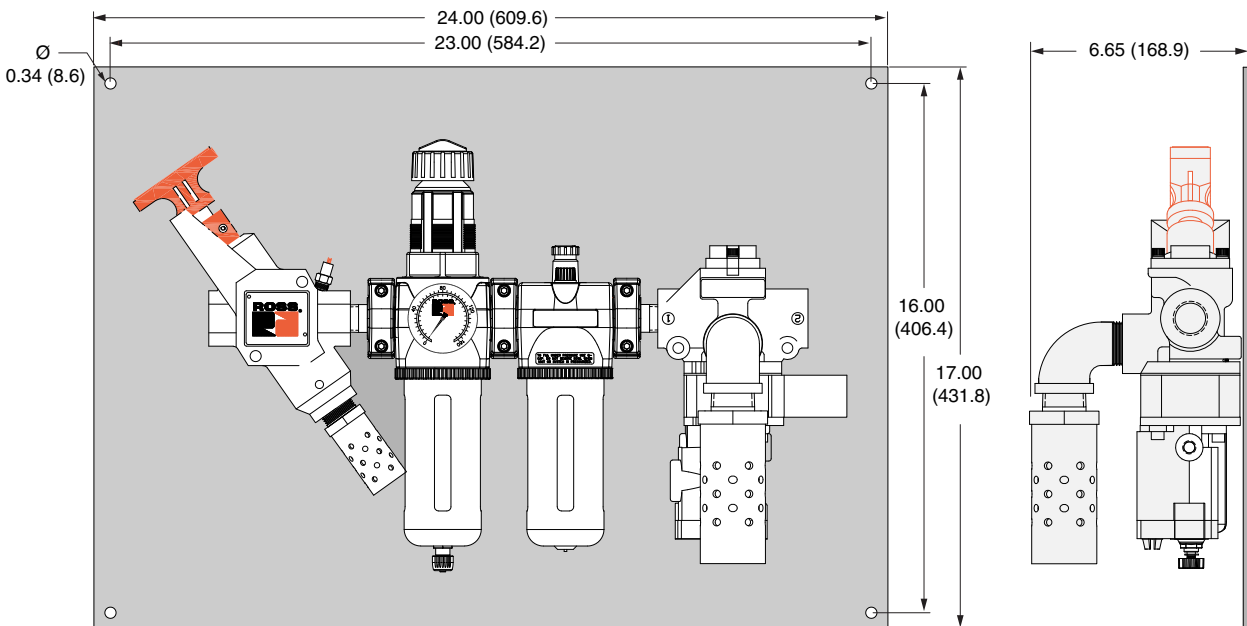
Inches (mm)

#### Port Size 3/4"

#### with MD4™ Filter and Regulator option



#### with MD4™ Integrated Filter/Regulator and Lubricator option



Combinations example.

Downloadable CAD models available.

# Assembly Technical Data

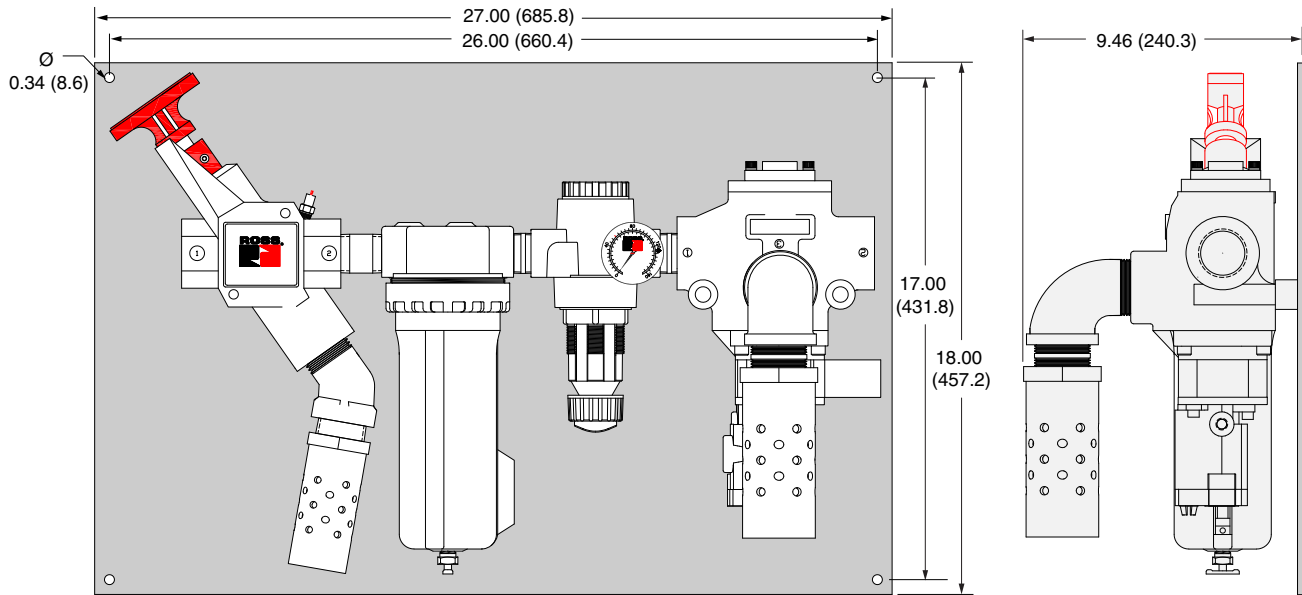
## Models with Classic Lockout L-O-X® Valve

### DIMENSIONS

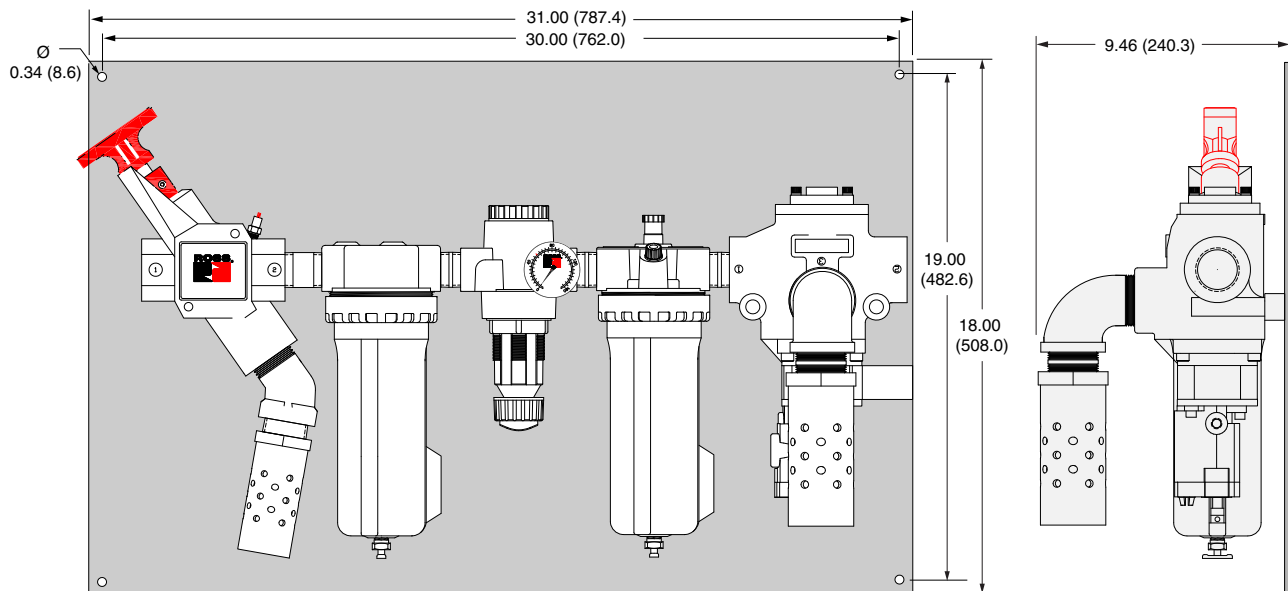
Inches (mm)

#### Port Size 1"

##### with MD4™ Filter and Regulator option



##### with MD4™ Filter, Regulator and Lubricator option



Combinations example.

Downloadable CAD models available.

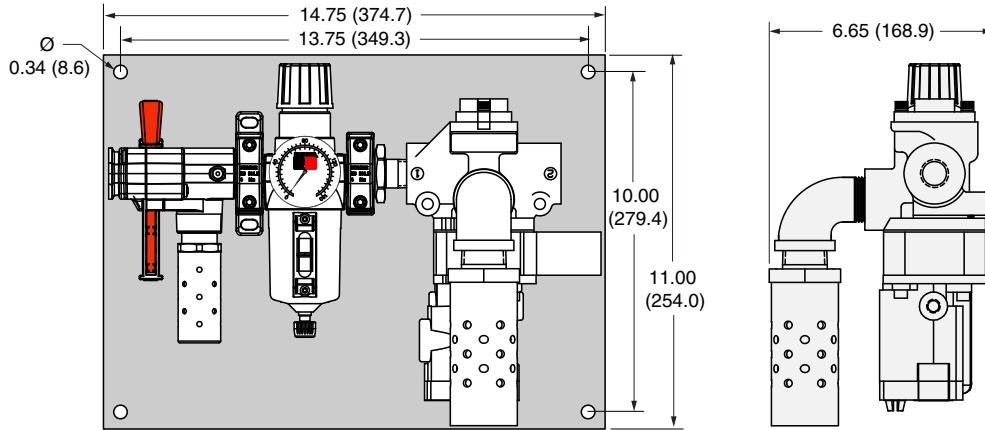
## Models with Modular Lockout L-O-X® Valve

### DIMENSIONS

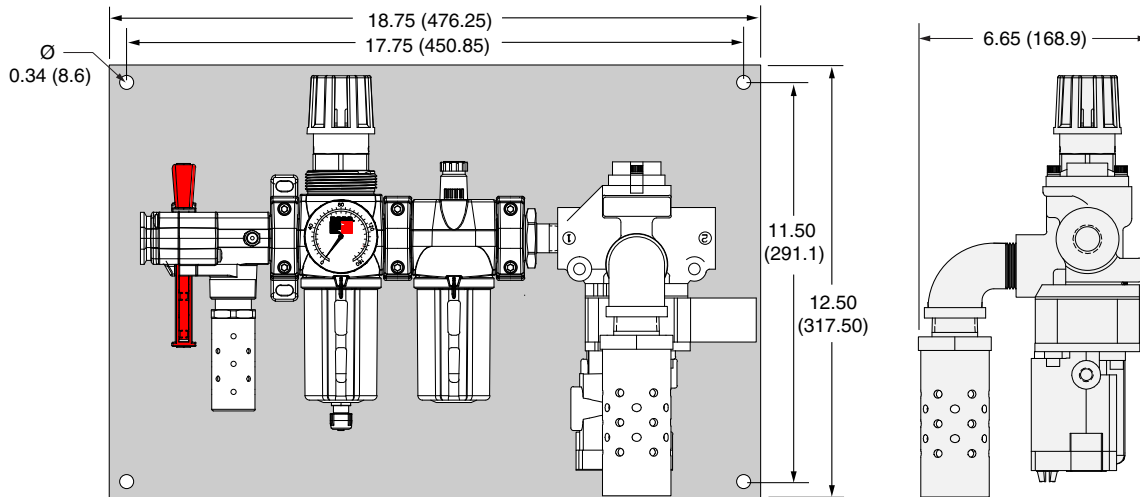
Inches (mm)

#### Port Size 1/2"

#### with MD3™ Integrated Filter/Regulator option



#### with MD3™ Integrated Filter/Regulator and Lubricator option





Combinations example.

Downloadable CAD models available.

# Accessories

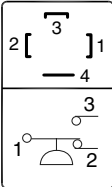
## ENERGY RELEASE VERIFICATION

Visual Pressure Indicator	Pressure Switch
	

*Illustration examples.*

Visual Pressure Indicator	Verification Type	Installation Location	Indicator Type	Model Number	Port Thread
	Pneumatic	Pressure Sensing Port	Visual Pop-up Pin	988A30	1/8 NPT

Pressure Switch	Verification Type	Installation Location	Connector Type	Model Number	Port Thread	Factory Preset psi (bar)
	Electrical	Pressure Sensing Port or Downstream	DIN EN 175301-803 Form A	586A86	1/8 NPT	5 (0.3) falling

Pinout	
DIN EN 175301-803 Form A	
	<ul style="list-style-type: none"> <li>1 - Common</li> <li>2 - Normally Closed</li> <li>3 - Normally Open</li> <li>4 - Ground (Not Used)</li> </ul>



**PREWIRED ELECTRICAL CONNECTORS**



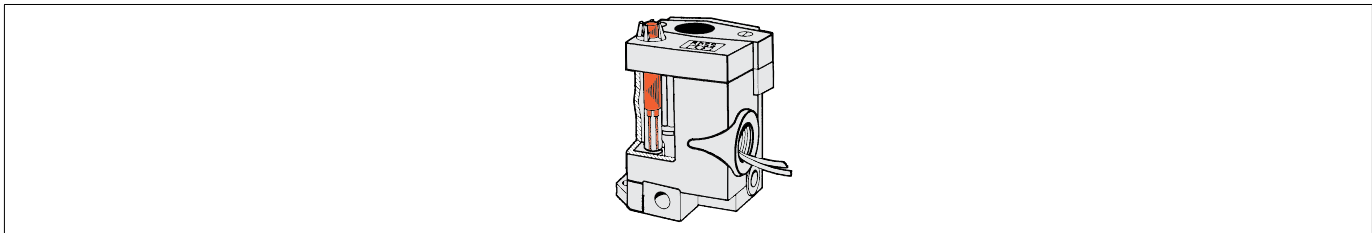
Illustration example.

Prewired Connector Kits	Cable					Kit Number
	End 1	End 2	Connection	Quantity Included	Length feet (meters)	Without Light
	Connector	Cord				
MINI, 3-pin	Flying leads	Solenoid	1	13.1 (4)	2239H77	
M12, 5-pin						Sensing Switch
MINI, 3-pin	Flying leads	Solenoid	1	32.8 (10)	2240H77	
M12, 5-pin						Sensing Switch

Solenoid Connector Pinout	Sensing Switch Connector Pinout
<b>MINI, 3-pin</b>	<b>M12, 5-pin</b>
	<p><b>Valve Basic Size 3/4 &amp; 1-1/4</b></p> <p>1 - Brown 2 - White 3 - Blue 4 - Black 5 - Gray Current/Voltage Max. 2.5 A / 120 V AC</p>
<p>1 - Green/Yellow (Ground) 2 - Blue 3 - Brown</p>	<p>Integrated Double-Pole Single-Throw Switch (DPST) Switch States Contact conditions during switch travel (0 to 6 mm).</p> <p>NC - Normally Closed NO - Normally Open</p> <p>The DPST switch is actuated whenever the valve is not in the normal home position.</p>

# Accessories

## SOLENOID PILOT INDICATOR LIGHT KITS



*Illustration example.*

Indicator Light Kits	Kit Number		
	24 V DC	110-120 V AC, 50-60 Hz	230 V AC, 50-60 Hz
	862K87-W	862K87-Z	862K87-Y

To visually verify valve operation, indicator light kits are available for single solenoid models. Indicator lights are standard on double solenoid valves. The indicator light is illuminated when the solenoid is energized.

## SOLENOID PILOT MANUAL OVERRIDE KITS




*Illustration examples.*

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

Flush rubber button, non-locking manual override is standard on solenoid models.  
 Each of the buttons in the override kits 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.


## LOCKOUT DEVICE

<b>Lockout Hasp</b>	<b>Valve Model Use</b>	<b>Model Number</b>	
	Lockout L-O-X® Classic Style	356A30	

## EXHAUST SILENCERS



Illustration example.

<b>Silencers</b>	<b>SPECIFICATIONS</b>		<b>Silencer Material</b>	<b>Pressure Range</b> psig (bar)	<b>Schematic</b>			
			Aluminum	0-290 (0-20) maximum				
	<b>Port Size</b>	<b>Thread Type</b>	<b>Flow</b> C <sub>v</sub> (NI/min)	<b>Model Number</b>		<b>Dimensions</b> inches (mm)		<b>Weight</b> lb (kg)
				<b>NPT Thread</b>	<b>R/Rp Thread</b>	<b>Length</b>	<b>Hex Size (D)</b>	
	1/2	Male	6.8 (6700)	5500A4003	D5500A4003	3.6 (9)	1.25 (32)	0.2 (0.1)
			7.2 (7100)	5500A5013	D5500A5013	3.6 (9)	1.25 (32)	0.2 (0.1)
	3/4	Male	15 (15000)	5500A5003	D5500A5003	5.3 (14)	2.0 (51)	0.9 (0.4)
18 (18000)			5500A6003	D5500A6003	5.4 (14)	2.0 (51)	0.9 (0.4)	

# Accessories

## MODULAR CONNECTION

M35 Series valves have both modular receptacles for piping and female threaded ports inside receptacles, which allows either modular connection or direct piping. Mounting accessories listed below are used for modular connection to ROSS MD Series filter-regulator units.






<b>Clamp</b>		<b>Bracket, Screw, and Clamp</b>	
			
<b>Extra Port Blocks</b>	<b>Female End Ports</b>		<b>Male End Ports</b>
			

Illustration examples.

<b>Mounting Brackets &amp; Clamp for Module Connections</b>	<b>Options</b>	<b>Model Number</b>
	Clamp only	R-A118-105
	Bracket, Screw, and Clamp	R-A118-105M

<b>Port Block and End Ports</b>	<b>Options</b>	<b>Port Size</b>	<b>Model Number</b>	
			<b>NPTF Thread</b>	<b>G Thread</b>
	Extra Port Blocks	1/2	R-118-106-4	R-118-106-4W
			R-118-100-4	R-118-100-4W
	Female End Ports	1/2	R-118-100-6	R-118-100-6W
		3/4	R-118-109-4F	R-118-109-4FW
Male End Ports	1/2	R-118-109-6F	R-118-109-6FW	
	3/4			

**REPLACEMENT FILTER ELEMENTS**

Filter Elements	Filter Series	Bowl Type	Element Material	Model Number		
				Element Rating		
				5-µm	20-µm	40-µm
MD3™	Standard	Polyethylene	R-A60F-03PE5	–	–	
		Sintered Bronze	R-A60F-03E5	R-A60F-03E4	R-A60F-03E3	
MD4™	Standard	Polyethylene	R-A115-106PE5	–	–	
		Sintered Bronze	R-A115-106E5	R-A115-106E4	R-A115-106E3	
HIGH-CAPACITY	Standard	Sintered Bronze	1656K77	–	R-A114-106E3	

# LUBRICANTS, POLYCARBONATE BOWL CAUTIONS

## COMPATIBLE LUBRICANTS

Although air line lubrication is not required for most ROSS valves, other mechanisms in the system may need such lubrication. When a lubricator is used, it should be supplied only with oils which are compatible with the materials used in the valves for seals and poppets. Generally speaking, these are petroleum base oils with oxidation inhibitors, and aniline point between 180°F (82°C) and 220°F (104°C) and an ISO 32, or lighter, viscosity. Oils with phosphate type additives, such as zinc dithiophosphate, must be avoided because they can harm polyurethane valve components. The best oils to use in pneumatic systems are those specifically compounded for air line lubricator service.

## CAUTIONS ON THE USE OF POLYCARBONATE BOWLS

**Use Only with Compressed Air.** Filters and lubricators with polycarbonate bowls are specifically designed for compressed air service, and their use with any other fluid (liquid or gas) is a misapplication. The use with or injection of certain hazardous fluids in the system (e.g., alcohol or liquefied petroleum gas) could be harmful to the polycarbonate bowl or result in a combustible condition or hazardous leakage. Before using with a fluid other than air, or for nonindustrial applications, or for life support systems, consult ROSS.

**Use Metal Bowl Guard When Supplied.** A metal bowl guard is supplied with all but the smallest bowls, and must always be used to minimize danger from fragmentation in the event of failure of a polycarbonate bowl.

**Avoid Harmful Substances.** Some compressor oils, chemical cleaners, solvents, paints, and fumes will attack polycarbonate bowls and can cause bowl failure. Do not use with or near these materials. When a bowl becomes dirty, replace the bowl or wipe it with a clean dry cloth. Immediately replace any polycarbonate bowl which is crazed, cracked, or deteriorated.

## SUBSTANCES HARMFUL TO POLYCARBONATE BOWLS

Acetaldehyde	Carbon disulfide	Ethylene dichloride	Phosphorous trichloride
Acetic acid	Carbon tetrachloride	Ethylene glycol	Propionic acid
Acetone	Caustic potash solution	Formic acid	Pyridine
Acrylonitrile	Caustic soda solution	Freon (refrigerant & propellant)	Sodium hydroxide
Ammonia	Chlorobenzene	Gasoline (high aromatic)	Sodium sulfide
Ammonium fluoride	Chloroform	Hydrazine	Styrene
Ammonium hydroxide	Cresol	Hydrochloric acid	Sulfuric acid
Ammonium sulfide	Cyclohexanol	Lacquer thinner	Sulfural chloride
Anaerobic adhesives & sealants	Cyclohexanone	Methyl alcohol	Tetrahydronaphthalene
Antifreeze	Cyclohexene	Methylene chloride	Thiophene
Benzene	Dimethyl formamide	Methylene salicylate	Toluene
Benzoic acid	Dioxane	Milk of lime (CaOH)	Turpentine
Benzyl alcohol	Ethane tetrachloride	Nitric acid	Xylene
Brake fluids	Ethyl acetate	Nitrobenzene	Perchloroethylene
Bromobenzene	Ethyl ether	Nitrocellulose lacquer	
Butyric acid	Ethylamine	Phenol	
Carbolic acid	Ethylene chlorohydrin	Phosphorous hydroxyl chloride	

## TRADE NAMES OF SUBSTANCES HARMFUL TO POLYCARBONATE BOWLS

Atlas Perma-Guard	Loctite Threadlocker Red 271	Pydraul AC
Buna-N	Loctite Threadlocker 290	Sears Regular Motor Oil
Cellulube #150 & #220	Loctite 601	Sinclair oil "Lily White"
Crylex #5 cement	Loctite Teflon sealant	Stauffer Chemical FYRQUEL 150
Eastman 910	Marvel Mystery Oil	Stillman #SR 269-75 (polyurethane)
Garlock #98403 (polyurethane)	Minnesota Rubber 366Y	Stillman #SR 513-70 (neoprene)
Haskel #568-023	National Compound #N11	Tannergas
Hilgard Company's Hil-Phene	Nylock VC-3	Telar
Houghton & Co. oil #1120, #1130, #1055	Parco #1306 Neoprene	Tenneco Anderol 495 & 500 oils
Houtosafe 1000	Permabond 910	Titon
Kano Kroil	Petron PD287	Vibra-TITE
Keystone penetrating oil #2	Prestone	Valvolin ZEREX

# 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. Safe 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 Safe 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.

THE WARRANTY EXPRESSED ABOVE IS IN LIEU OF AND EXCLUSIVE OF ALL OTHER WARRANTIES AND THE ROSS GROUP EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED WITH RESPECT TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE ROSS GROUP MAKES NO WARRANTY WITH RESPECT TO ITS PRODUCTS MEETING THE PROVISIONS OF ANY GOVERNMENTAL OCCUPATIONAL SAFETY AND/OR HEALTH LAWS OR REGULATIONS. IN NO EVENT IS THE ROSS GROUP LIABLE TO PURCHASER, USER, THEIR EMPLOYEES OR OTHERS FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM A BREACH OF THE WARRANTY DESCRIBED ABOVE OR THE USE OR MISUSE OF THE PRODUCTS. NO STATEMENT OF ANY REPRESENTATIVE OR EMPLOYEE OF THE ROSS GROUP MAY EXTEND THE LIABILITY OF THE ROSS GROUP AS SET FORTH HEREIN.



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***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 fluid power 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.*