

SAFE AIR ENTRY SOLUTIONS WITH SENSING VALVES SV27 SERIES

PRODUCT CATALOG

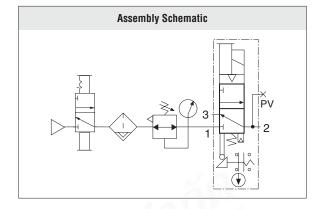




Safe Air Entry Assemblies with Sensing Valves SV27 Series Product Overview



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





Air entry system via a manual Lockout L-O-X® 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

- 3/2 valve
- Classic L-O-X® or Modular L-O-X®
- 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

Energy Isolation Lockout L-O-X® Valve

- 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

15 Series

Mounting plate, direct piping assembly.

SISTEMA Library

Available for download at rosscontrols.com.



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Ordering Information



MODELS with CLASSIC MANUAL LOCKOUT L-O-X® VALVES										
Port Size			Air Preparation		Air Entry Assembly Model Number #				w C _v	
In-Out	Exhaust	Port Thread				Voltage*				
1, 2	3		Series	Series Type	Туре	24 volts DC	110-120 volts AC 50/60 Hz	230 volts AC 50/60 Hz **	1-2	2-3
1/2	1/2	4/0 NDT	NDT	MD4™	FR	RC208-06W	RC208-06Z	RC208-06Y	6.3	9.2
1/2	1/2	NPT	IVID4***	FRL	RC208L-06W	RC208L-06Z	RC208L-06Y	0.3	9.2	
0/4	3/4	NPT	MD4™	FR	RC212-06W	RC212-06Z	RC212-06Y	7.7	7 11	
3/4	3/4	INPI	IVID4····	FRL	RC212L-06W	RC212L-06Z	RC212L-06Y	7.7		
4	4	NDT	High Consoity	FR	RC216-06W	RC216-06Z	RC216-06Y	8.0	12	
ı	'	NPT	High-Capacity	FRL	RC216L-06W	RC216L-06Z	RC216L-06Y	0.0	12	
// O:lanaa	Sand de d									

[#] Silencer included.

^{** 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								
Size		Air Prepar	eparation Air Entry Assembly Model Number #				Flow C _v	
In-Out Exhaust Port T	Port Thread	Series		Voltage*				
			Туре	24 volts DC	110-120 volts AC 50/60 Hz	230 volts AC 50/60 Hz **	1-2	2-3
1/2	1/2 NPT	MD3 TM FRL	F/R	RC208-09W	RC208-09Z	RC208-09Y	6.0	9.2
			FRL	RC208L-09W	RC208L-09Z	RC208L-09Y	6.3	9.2
	Size Exhaust 3	Size Exhaust 3	Size Air Prepare Exhaust 3 Series	Size Air Preparation Exhaust 3 Series Type 1/2 NPT MD3 TM	Size Air Preparation Air Er Exhaust 3 Series Type 24 volts DC 1/2 NPT MD3™ F/R RC208-09W	NPT MD3™ Air Preparation Air Entry Assembly Model Number	NPT MD3TM Air Preparation Air Entry Assembly Model Number # Voltage*	NPT MD3TM Air Preparation Air Entry Assembly Model Number # Flow

[#] Silencer included.

SV27 SERIES VALVE PRODUCT CREDENTIALS								
Safety Category	TÜV Rheinland of North America Certificate	CE Conformity Declaration	EAC Conformity Declaration	ISO Standard	CSA Certificate of Compliance	CRN Certification		
Cat. 2 SIL 2 Functional Safety	TÜVRheinland Precisely Right.	C€	ERC	ISO 13849-1:2015	(CONTROL OF CONTROL OF	Available for appropriately tested valves		

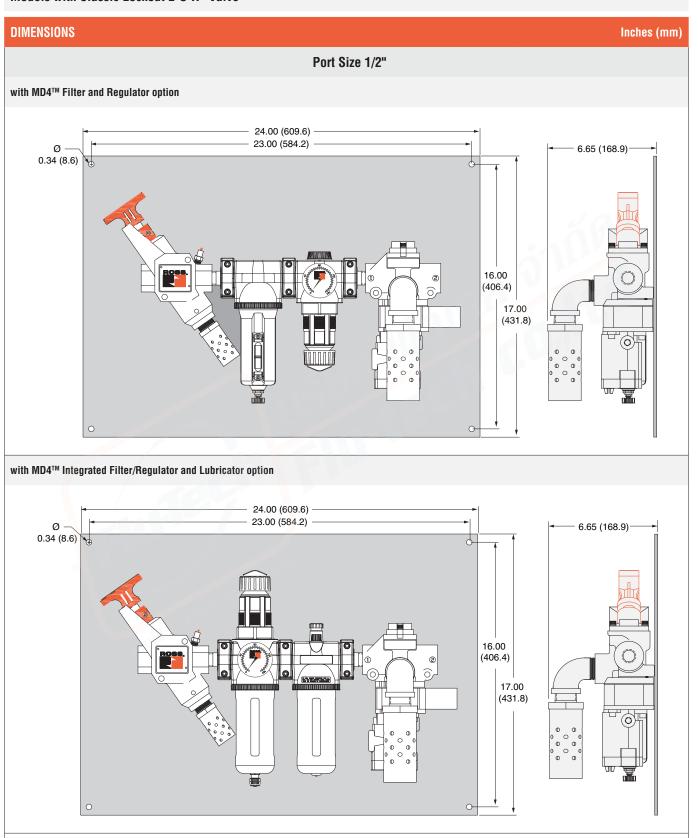


^{*} For other voltages consult ROSS.

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Models with Classic Lockout L-O-X® Valve

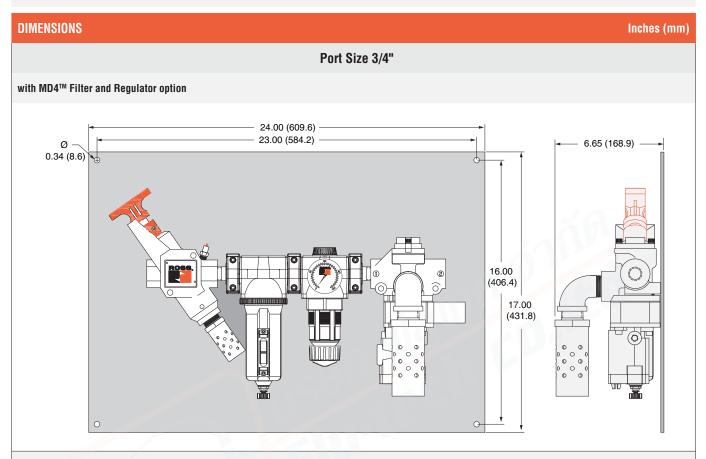


For additional information, and to assist you with piping and connectivity designs, our products are available in downloadable 2D drawings and 3D CAD models in a wide range of options including native formats, visit www.rosscontrols.com.

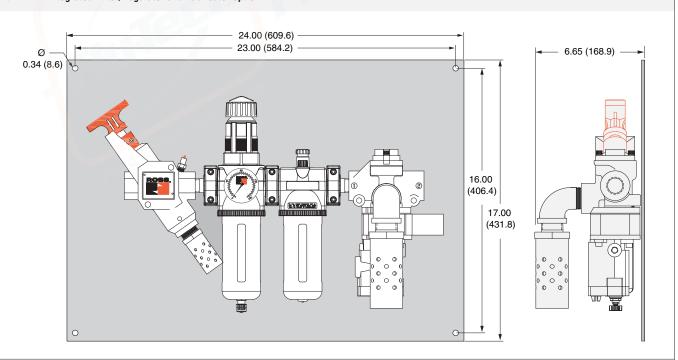




Models with Classic Lockout L-O-X® Valve



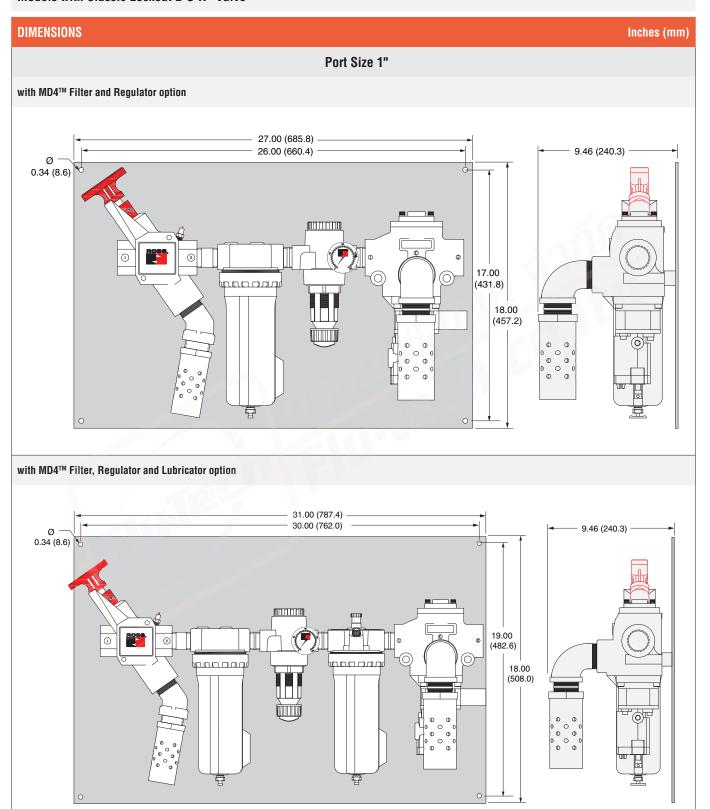
with $\text{MD4}^{\text{\tiny{TM}}}$ Integrated Filter/Regulator and Lubricator option



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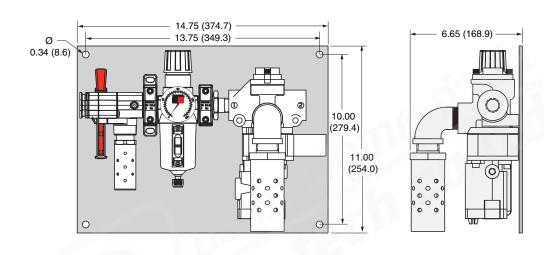


Models with Modular Lockout L-O-X® Valve

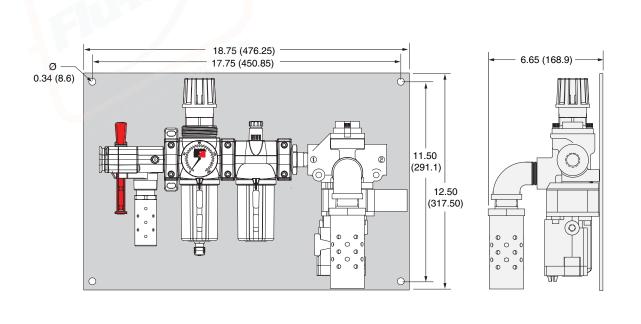
DIMENSIONS Inches (mm)

Port Size 1/2"

with MD3™ Integrated Filter/Regulator option



with MD3™ Integrated Filter/Regulator and Lubricator option





ENERGY RELEASE VERIFICATION									
Visual Pressure	Verification Type	Indicator Type	Model Nun	Port Thread					
Indicator	Pneumatic	Visual Pop-up Pin	988A30	1/8 NPT					
Pressure Switch	Verification Type	Connector Type	Model Number	Factory Preset psi (bar)	Port Thread				
	Electrical	DIN EN 175301-803 Form A	586A86	5 (0.3) falling	1/8 NPT				

Connector Pinout

DIN EN 175301-803 Form A

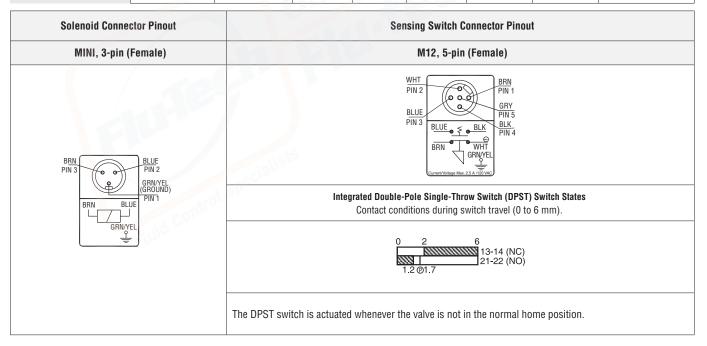


- 1 Common
- 2 Normally Closed
- 3 Normally Open
- G Ground

ELECTRICAL CONNECTORS

Pre-wired Connector Kits

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





SOLENOID PILOT OPTIONS

	Valve Model	Kit Number				
Indicator Light Kits		24 volts DC	110-120 volts AC, 50-60 Hz	230 volts AC, 50-60 Hz		
	Solenoid Pilot Valves	862K87-W	862K87-Z	862K87-Y		

LOCKOUT DEVICE

Lockout Hasp	Valve Model Use	Model Number
Lookout Hasp	Manual Lockout L-O-X® Classic Style	356A30

SILENCERS

	Port Size	Thread Type	Model N	lumber	Flow	Pressure Range	
	1 011 0120	imodu typo	R/Rp Thread NPT Thread		Avg. C_v	psig (bar)	
Silencers	1/2	Male	D5500A4003	5500A4003	4.7		
Ononooro	3/4	Male	D5500A5013	5500A5013	5.1	0-290 (0-20)	
			D5500A5003	5500A5003	12	maximum	
	1 Male		D5500A6003	5500A6003	15		

REPLACEMENT FILTER ELEMENTS

				Model Number Element Rating				
	Filter Series	Bowl Type	Element Material					
				5-μm	Element Rating 20-μm 40-μm - - R-A60F-03E4 R-A60F-03E3 - -			
Filter Elements	MD3 TM	Standard	Polyethylene	R-A60F-03PE5	_	_		
	IVID3	Standard	Sintered Bronze	R-A60F-03E5	60F-03E5 R-A60F-03E4 R-A60F			
	MDATM	Cton dond	Polyethylene	R-A115-106PE5	_	_		
	MD4™ Standard Sintered Bronze R-A115		R-A115-106E5	R-A115-106E4	R-A115-106PE3			
	HIGH-CAPACITY	Standard	Sintered Bronze	1656K77	_	R-A114-106E3		

