

SOFT START VALVE

Series S011

Cat No S01 - 01

SOFT START VALVE G1/2

Features

- Solenoid operated with manual override.
- Soft start and dump function.
- Adjustable needle to vary the time of build up of downstream pressure
- Suitable for modular construction. (FRL's)
(Body ported for pipe mounting)
- Low operating pressure
- Coil can be rotated by 360°.
- Elegant design and finish.



Function

1. These valves are used in conjunction with air preparation units (FRL's).
2. When a signal is applied to the valve, air pressure in the downstream side builds up gradually through an adjustable needle, until the downstream pressure reaches 50 - 80 % of the inlet pressure, after which the valve opens fully. When the valve is deenergised, the downstream pressure is dumped to the atmosphere. (A silencer may be provided in the exhaust port to dampen the dumping noise.)

Application

These valves are used as a safety device to prevent the risk of sudden impact of air, on valves / cylinders / pneumatic components thus reducing the risk of accidents caused during start up.

Technical Specifications

Model	SO1163	
Port size	G1/2	
Medium	Compressed air – Lubricated	
Operating pressure (bar)	3 – 10 bar *	
Ambient Temperature	0 – 60° C	
Flow rate Lts / min @	1 → 2	2 → 3
	3600	3000
Materials of construction	Aluminium, Brass, Acetal, Stainless steel, Nitrile	
Weight Kg	0.70	
Electrical		
Voltage (V) ± 10%	AC (50 Hz) 24, 48, 110, 220	DC 12, 24, 48, 110
	Power consumption	6.5 VA
Duty cycle	Continuous	
Class of insulation	Class F	
Type of coil protection	IP65	

* with Ø 12 ID Tubing

@ inlet pressure 6 bar, pressure drop $\Delta p = 1$ bar

Precaution

Lubricator should be mounted on the inlet side of the valve. Mounting a lubricator on the downstream side might create oil back flow.

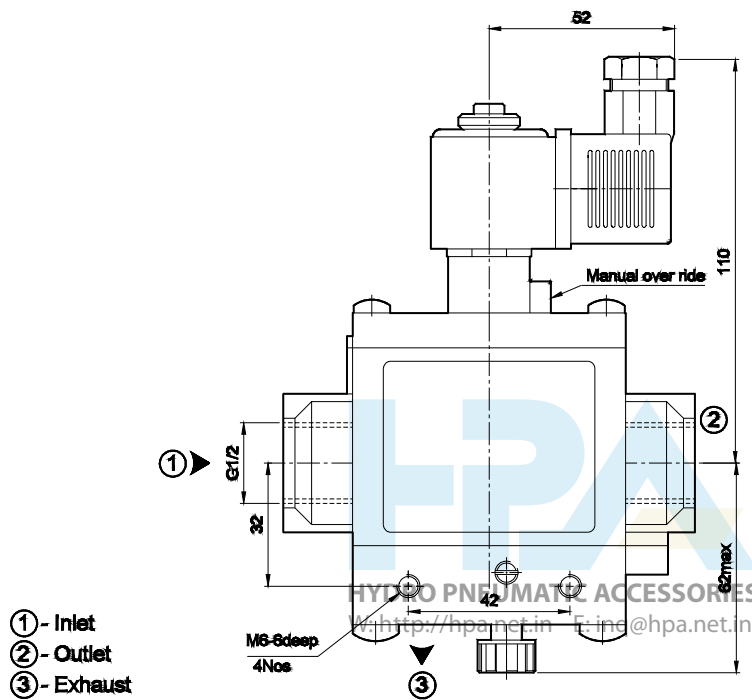
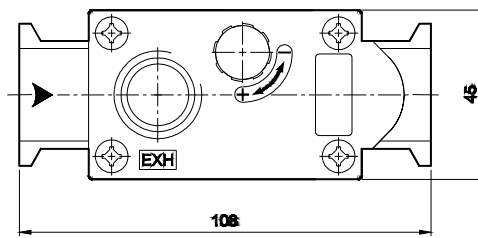
Note

Turning the adjustable needle clockwise, increases the time delay for full pressure and viceversa.

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- ① - Inlet
- ② - Outlet
- ③ - Exhaust

How to order

The ordering no. for soft start valve with various coil voltages:

Coil voltage	Valve ordering number
220 V AC	S01163 - A
110 V AC	S01163 - B
48 V AC	S01163 - D
24 V AC	S01163 - G
110 V DC	S01163 - Q
48 V DC	S01163 - S
24 V DC	S01163 - W
12 V DC	S01163 - R