

SOFT START VALVE

Series S01

Cat No S01 - 01 - 01 - A

SOFT START VALVE - G1/4 & G1/2

Features

- ☐ Pressure switching time approx. 55% to 75% of supply pressure
- ☐ Adjustable switching time delay through needle
- ☐ High-flow
- ☐ Inbuilt flush type pressure gauge
- ☐ Possible to mount the flush type pressure gauge in front & rear side
- ☐ Suitable & easy for modular mounting
- ☐ Clean design



Function

- ☐ The pneumatic soft start valve is used for slowly pressurizing and to avoid the sudden impact, erratic movement of pneumatic system during a restart condition
- ☐ The supply air reaches the outlet port through the needle setting control
- ☐ When the outlet pressure build-up is approx 55% to 75% of supply pressure, the valve cone opens completely and the full flow is achieved
- ☐ When the air is exhausted completely the valve cone closed and the remaining air is exhausted through the needle

Technical Specifications

Model	S012361...	S012563...
Medium	Compressed air - filtered	
Port Size	G1/4	G1/2
Type	2/2 NC	
Flow rate @ (lts/min.)	2200	6000
Working pressure range (bar)	4 to 10	
Ambient temperature ** (C)	-10° to +60°	
Medium temperature (C)	+5° to +50°	
Installation	Any position	
Materials of construction	Die cast Aluminium, Brass, Polyamide, Polyacetal, Nitrile, Aluminium	
Optional accessories *	Clamp, Modular mounting kit, Silencer	
Weight (kg)	0.15	0.55

@ - Supply pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar

* - For details refer optional accessories Cat No APA- 01 - 05 - A

** - Ambient temperature +5° to +50°C for Pressure gauge and Pressure sensor model

Warning

1. Since the valve might have slight internal leakage, it is not suitable for holding pressure in a tank or another vessel for a long period of time.
2. If there is any major leakage in downstream pressure system, it is not possible for pressure buildup and to open the valve completely.
3. Valves should be switched ON at least once in every 30 days to prevent malfunction.
4. Do not use this valve as an "Emergency shut off valve".
5. Even this product is normally closed type, if the downstream pressure build-up is more than 55% of supply pressure, quick opening will occur.
6. This valve should be mounted on the outlet port side of the lubricator only. If the valve is mounted on the inlet port side of lubricator, back flow of oil may spurt out into the valve from the inlet port of the lubricator.
7. Do not operate this product beyond the specification, as this can cause damage (or) malfunction.

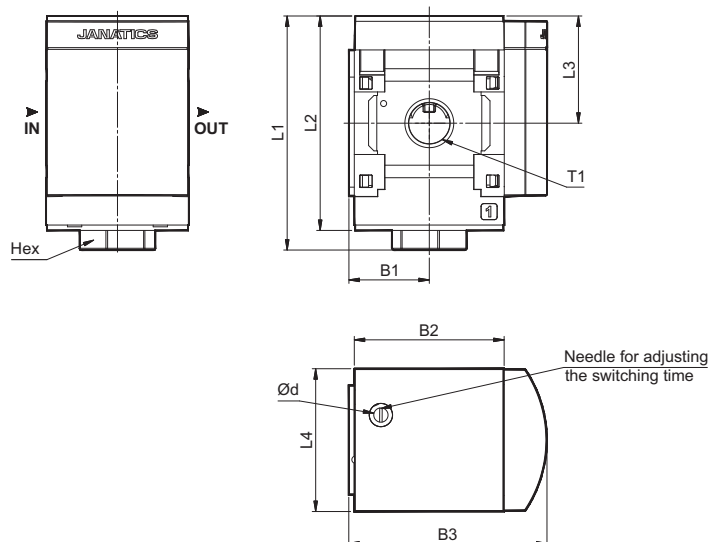
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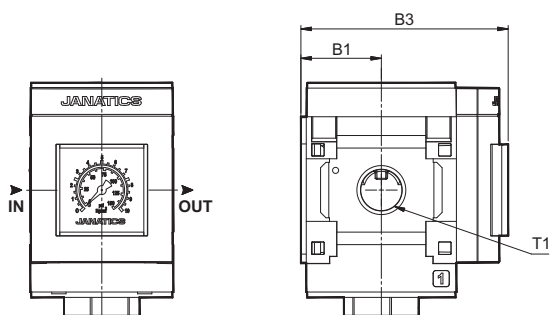
Model S01...

Standard



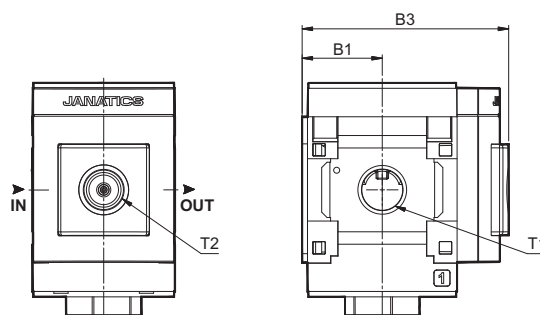
Model No.	W	L1	L2	L3	L4	Hex	B1	B2	B3	Ød
S012361P-F1...	G1/4	65.5	60	30	40	19	22.5	42	55.5	4
S012563P-F1...	G1/2	100.5	91	45.5	62	30	32	62	77.5	5

With flush type pressure gauge



Model No.	T1	B1	B3
S012361P...	G1/4	22.5	58
S012563P...	G1/2	32	77.5

With adaptor plate (Suitable for 1/8" thread)



Model No.	T1	T3	B1	B3
S012361P-F2...	G1/4	G1/8	22.5	58
S012563P-F2...	G1/2	G1/8	32	77.5

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush piping's for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with Teflon tape. Ensure Teflon tape does not enter the unit during tightening.
Nipples of straight threads (G) to be used with sealing washer.

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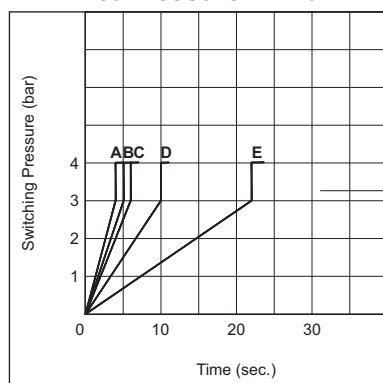
Flow Graph

Soft start valve Switching pressure Vs Time graph for Ø50 cylinder.
Pressure switching approx. 55% to 75% of Inlet Pressure.

Needle rotation turns

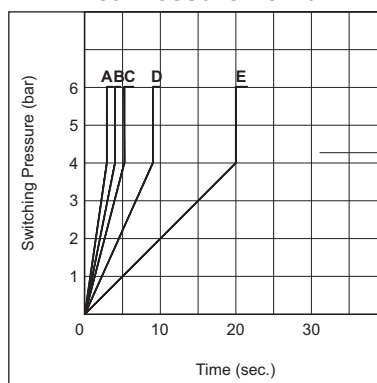
A = 5 turns
B = 4 turns
C = 3 turns
D = 2 turns
E = 1 turn

Inlet Pressure - 4 Bar



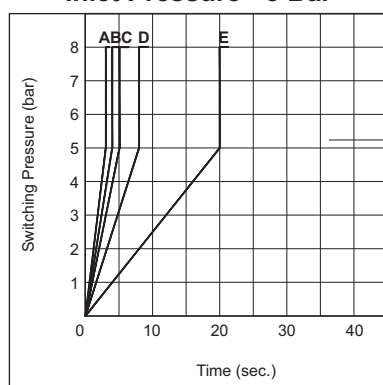
Pressure switching approx.
75% of Inlet pressure

Inlet Pressure - 6 Bar



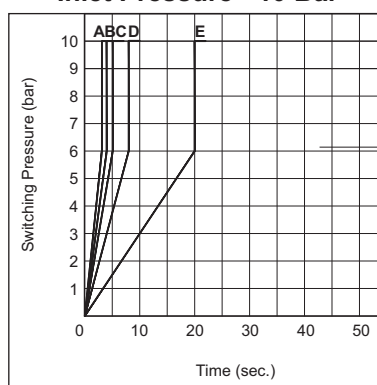
Pressure switching approx.
67% of Inlet pressure

Inlet Pressure - 8 Bar



Pressure switching approx.
63% of Inlet pressure

Inlet Pressure - 10 Bar



Pressure switching approx.
60% of Inlet pressure

How to order

S012	361	P	—																												
<table><tr><th colspan="2">Body & Port size</th></tr><tr><td>361</td><td>1/4" & G1/4</td></tr><tr><td>563</td><td>1/2" & G1/2</td></tr></table>		Body & Port size		361	1/4" & G1/4	563	1/2" & G1/2	<table><tr><th colspan="2">Actuation mode</th></tr><tr><td>P</td><td>Pneumatically actuated</td></tr></table>	Actuation mode		P	Pneumatically actuated	<table><tr><th colspan="2">Front side mounting Accessories</th></tr><tr><td>Nil</td><td>with Flush type Pressure gauge</td></tr><tr><td>F1</td><td>with Front cover</td></tr><tr><td>F2</td><td>with Adaptor plate 1/4 - G1/8</td></tr><tr><td>F2</td><td>with Adaptor plate 1/2 - G1/8</td></tr></table>		Front side mounting Accessories		Nil	with Flush type Pressure gauge	F1	with Front cover	F2	with Adaptor plate 1/4 - G1/8	F2	with Adaptor plate 1/2 - G1/8	<table><tr><th colspan="2">Rear side mounting Accessories</th></tr><tr><td>Nil</td><td>Without Accessories</td></tr><tr><td>C2</td><td>Clamp (standard)</td></tr></table>	Rear side mounting Accessories		Nil	Without Accessories	C2	Clamp (standard)
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Ordering example:

Soft start valve - 1/4 size (with G1/4 port) Pneumatically actuated, with Flush type pressure gauge and Clamp (standard) : Ordering No: **S012361P-C2**

If ordered Soft start valve 1/4, our standard model **S012361P-F1** with Front cover will be supplied.