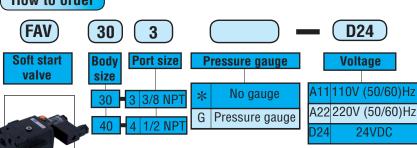
FABCO-AIR SOFT START VALVE

FAV Series



How to order



Electrical entry

Standard
connector
DIN 43650
Plug connector
DIN 43650
S with lamp &
surge
suppressor

Features

1. In an air system, soft start valve gradually raises incoming pressure for low speed air supply to ensure the safety of the air system.

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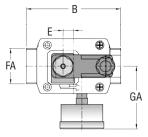
- 2. When cutting off air supply, soft start valve exhausts quickly.
- 3. Connectable with FABCO-AIR air prep products.

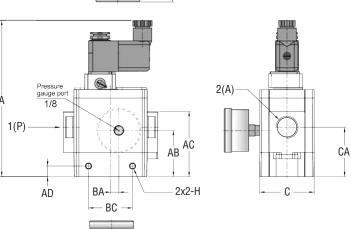
Specification

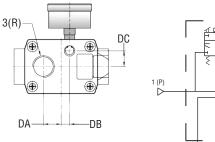
Model		FAV30		FAV	40		
Port Size		3/8 NPT	3/8 NPT		NPT		
Operating 1		Compressed air					
Operating		0.25 to 1MPa (36 to 145 psi)					
Temperatu	•	O to +60°C (32° to +140°F)					
Effective	1(P)>2(A)	37mm ²		61mm ²			
area	2(A)>3(R)	49mm ²		76mm²			
Voltage		AC110V A	\C22	20V	DC24V		
Power cons	•	6 VA 4	4.9 \	/A	2.6 W		
	oltage range	±10%					
Coil insula	tion class	F class					
Weight		520g	800g				

Dimensions

S	ize	Α	AB	AC	AD	В	BA	BC	C	CA	DA	DB	DC	Е	FA	GA	Н
																	M5x0.8x5 depth
	40	149	44	62	10	90	8	42	52	47	17	8	15	10	34	60	M6x1.0x6 depth





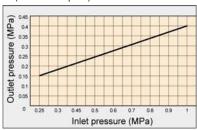


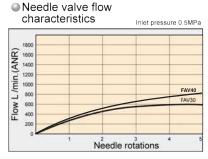
∆ 3 (R)

FABCO-AIR SOFT START-UP VALVE FAV Series

(Flow characteristics

Piston B switching pressure (Close→Open)





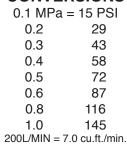
Piping note

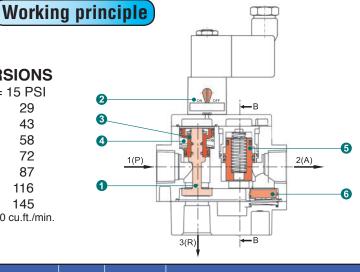
When the air flow is restricted or insufficient pressure, the main valve will not function or switch normally and it may cause air to leak from the R port.

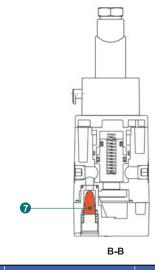
The composite effective area of the piping material and component on the P port side:

FAV30	Composite effective area ≧22mm²			
FAV40	Composite effective area ≥35mm²			

CONVERSIONS







			,		
Working condition	Pilot valve	Pressure conditions	Working description	Pressure time chart (Meter-out control) example	Cylinder drive circuit (Meter-out control) example
Low speed supply		½Pp>PA	When pilot valve 2 is turned ON by energization or manual override, the pilot air moves piston A 3 and main valve 1 downward and opens main valve 1 while R port closes at the same time. The air from P port moves to needle valve 7, where its flow is adjusted, and flows to A port.	Initial Operation Return Stroke	PP PA P
High speed supply	ON		The meter-in control of needle valve slowly moves the cylinder from to B.	PR (Atmospheric pressure) Prime	PA 11(P) 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		½Pp≤Pa	When ½PP ≤ PA · after the cylinder reaches ③ , piston B ⑤ fully opens and PA increases quickly as shown from ⑥ to ⑤ and becomes the same pressure as PP.	√3(R) 2(A) → □	
Normal operation		approx ½PP=PA	Pro El PA E E		
Quick exhaust	OFF	_	When pilot valve ② is turned OFF, spr and main valve ① upward and opens the air supply from P port. The pressu at this time lets the check valve ⑥ ope pressure on the A port side is rapidly of	1(P)	