

Soft Start-up Valve

AV2000/3000/4000/5000



How to Order

AV **20** 00 - **02** - **1** **G** -

Soft start-up valve

Body size

20	1/4
30	3/8
40	1/2
50	3/4, 1

Thread type

Nil	Rc
F	G
N	NPT

Port size

02	1/4 (AV2000 only)
03	3/8 (AV3000 only)
04	1/2 (AV4000 only)
06	3/4 (AV5000 only)
10	1 (AV5000 only)

Option

Nil	None
G	With pressure gauge

Flow direction

Nil	Left to right
R	Right to left

Manual override

Nil: Non-locking push type (Flush)	B: Locking type (Tool required)	C: Locking type (Lever)
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Light/Surge voltage suppressor

Nil	None
S	With surge voltage suppressor (Grommet type only)
Z	With light/surge voltage suppressor (Not possible with grommet type)

Coil rated voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 to 120 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC
7	240VAC (50/60 Hz)
9	Other

Electrical entry

G: Grommet

D: Type D DIN terminal (With connector)

DO: Type D DIN terminal (Without connector)

Y: Type Y DIN terminal (With connector)

YO: Type Y DIN terminal (Without connector)

How to Order Pilot Valve Assembly

SF4 - **1** **G** - **80**

Rated coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 to 120 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC
7	240 VAC (50/60 Hz)
9	Other

Flow direction

Nil	Left to right
R	Right to left

Manual override

Nil	Non-locking push type (Flush type)
B	Locking type (Tool required)
C	Locking type (Lever type)

Light/Surge voltage suppressor

Nil	None
S	With surge voltage suppressor (Grommet type only)
Z	With light/surge voltage suppressor (Not possible with grommet type)

Electrical entry

G	Grommet
D	Type D DIN terminal (With connector)
Y	Type Y DIN terminal (With connector)
DO	Type D DIN terminal (Without connector)
YO	Type Y DIN terminal (Without connector)

Note) The grommet type can have a surge voltage suppressor (direct coupling type lead wire), but without indicator light.

TÜV approved product
(Conforms to standards necessary to satisfy EC directives.)

BAUART GEPRÜFT TYPE APPROVED

Series AV has received approval from TÜV Rheinland, an EC Notified Body (EC authorization number 0197), for conformity to DIN VDE0580: 1994 Standards.

Please consult with SMC for details when ordering TÜV approved products because of restrictions regarding product model, voltage specification, and electrical entry, etc.

Soft Start-up Valve *Series AV2000/3000/4000/5000*

Specifications

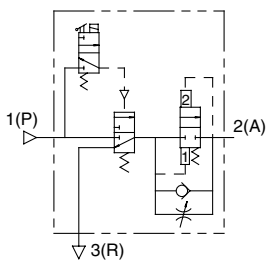


Type D DIN terminal



Type Y DIN terminal

JIS Symbol



Accessory/Pressure Gauge

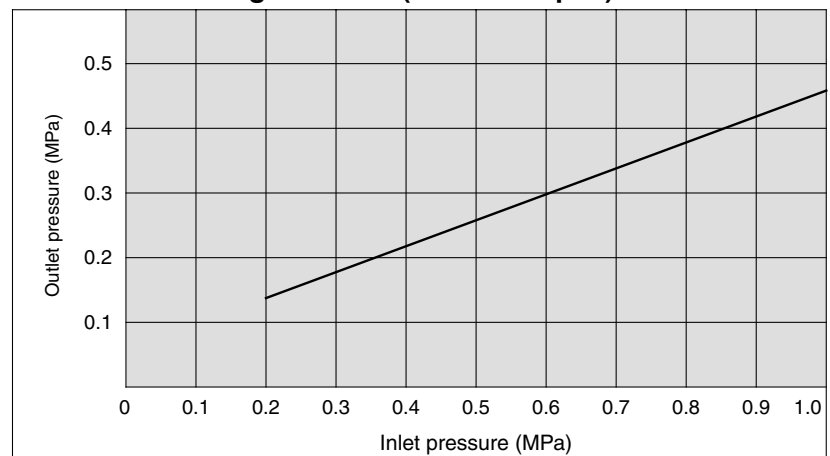
Description	Pressure gauge
Part no.	G36-10-01
Pressure range	1 MPa

Model		AV2000	AV3000	AV4000	AV5000	
Port size		1/4	3/8	1/2	3/4	1
Proof pressure		1.5 MPa				
Operating pressure range		0.2 to 1 MPa				
Pressure gauge port size		1/8				
Ambient and fluid temperature		0 to 60°C ⁽¹⁾				
Effective area (mm ²)	1(P) → 2(A)	20	37	61	113	122
	2(A) → 3(R)	24	49	76	132	141
Mass (kg)		0.27	0.48	0.74	1.60	1.54
Electrical specifications	Rated coil voltage		100, 200, 110 to 120, 220 VAC (50/60 Hz), 240 VAC (50/60 Hz) 12, 24 VDC			
	Allowable voltage fluctuation		−15 to +10% of rated voltage			
	Coil insulation type		Equivalent to B type (130°C)			
	Apparent power (Current consumption) AC	Inrush	5.6 VA (50 Hz), 5.0 VA (60 Hz)			
		Energized	3.4 VA (2.1 W)/50 Hz, 2.3 VA (1.5 W)/60 Hz			
	Current consumption DC		1.8 W			
	Electrical entry		Grommet, Type D DIN terminal, Type Y DIN terminal			
Option specifications		Indicator light/Surge voltage suppressor ⁽²⁾				
Pilot valve manual override		Non-locking push type (Flush), Locking type (Tool required), Locking type (Lever)				

Note 1) Use dry air when operating at a low temperature.

Note 2) The grommet type is equipped with a surge voltage suppressor (direct coupling type lead wire), but not an indicator light.

Piston B Switching Pressure (Close → Open)



Needle Valve Flow Characteristics

