

! Contact our sales office for delivery dates and prices as this is a special model.

Specialized Product **P.G.** Point to Group information

Soft Start-up Valve/Non-locking Push Type

AV2000/3000/4000/5000-□□□-□□□-□-**A-X2004**

Features

The non-locking push type has been added to the manual override.



Specifications

Series	AV2000-A-X2004	AV3000-A-X2004	AV4000-A-X2004	AV5000-A-X2004	
Port size	1(P), 2(A) 3(R)	1/4	3/8	1/2	3/4, 1
Pressure gauge port size	1/4	3/8	1/2	3/4	
Fluid	Air				
Ambient and fluid temperatures	0 to 50°C*1				
Proof pressure	1.5 MPa				
Operating pressure range	0.2 to 1.0 MPa				
Weight [kg]	0.43	0.45	0.80	1.30	1.25
Enclosure	IP65				

*1 When operating at a low temperature, use the product with dry air to prevent it from freezing.
* Based on IEC60529

Solenoid Specifications

Electrical entry		Grommet	DIN terminal	
Rated coil voltage [V]	DC	24, 12 V		
	AC 50/60 Hz	100, 200, 110 [115], 220 [230]*1		
Allowable voltage fluctuation	DC	24 V	±10% of the rated voltage	
		12 V	±10% of the rated voltage	
		100 V	±10% of the rated voltage	
	AC	110 V*1 [115 V]	±10% of the rated voltage	
		200 V	±10% of the rated voltage	
		220 V*1 [230 V]	±10% of the rated voltage	
Power consumption [W]	DC	0.35 (With light: 0.4)	0.35 (With light: 0.45)	
Apparent power [VA]	AC	100 V	0.78 (With light: 0.81)	0.78 (With light: 0.87)
		110 V [115 V]	0.86 (With light: 0.89) [0.94 (With light: 0.97)]	0.86 (With light: 0.97) [0.94 (With light: 1.07)]
		200 V	1.18 (With light: 1.22)	1.15 (With light: 1.30)
		220 V [230 V]	1.30 (With light: 1.34) [1.42 (With light: 1.46)]	1.27 (With light: 1.46) [1.39 (With light: 1.60)]
		Surge voltage suppressor	Refer to the SMC website.	
Indicator light	LED	LED (Neon bulb for AC)		

*1 The 110 VAC and 115 VAC are interchangeable. The 220 VAC and 230 VAC are interchangeable as well.



Caution

To ensure the safest possible operation of this product, please be sure to thoroughly read the "Safety Instructions" in our "Best Pneumatics" catalog before use.



How to Order

AV **20** **00** - **□** **02** **B** - **1** **D** **□** - **□** - **A** - **X2004**

①

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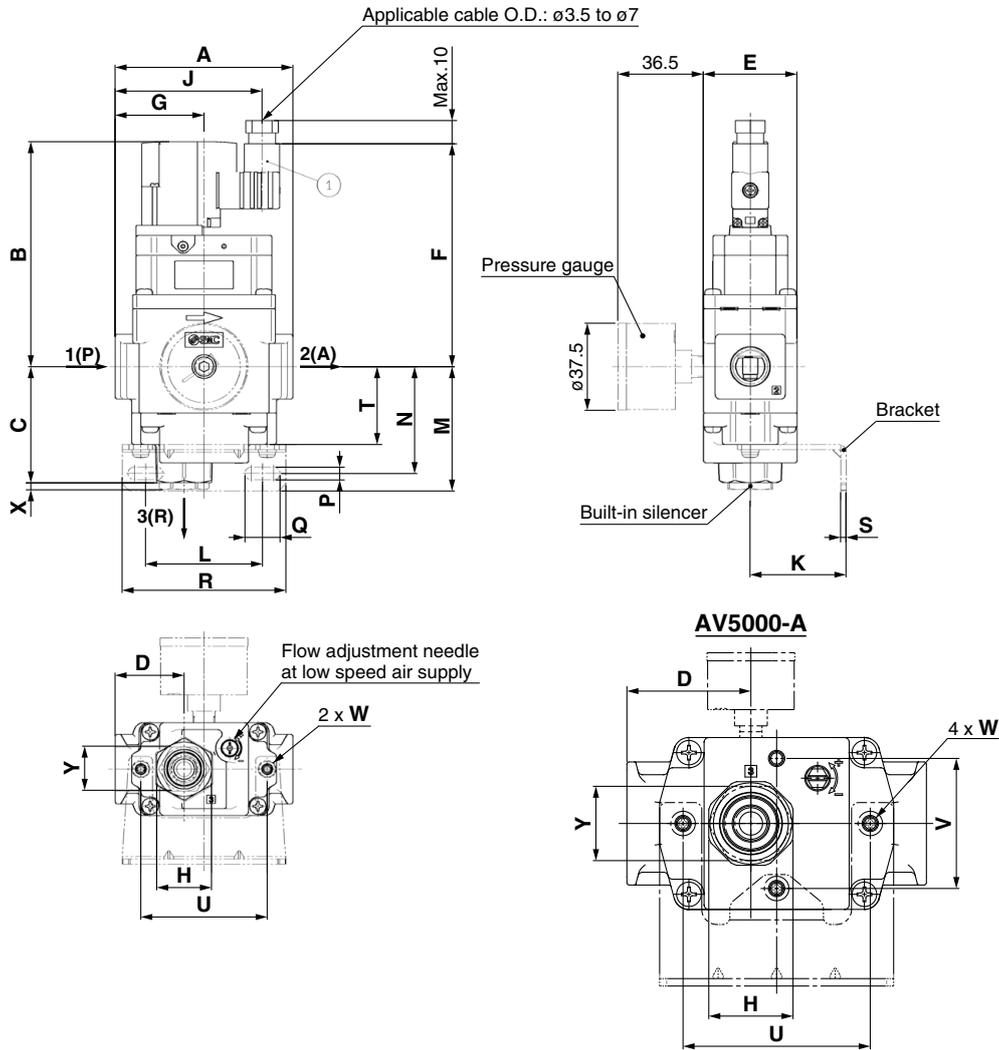
• Non-locking push type

		Symbol	Description	①					
				Body size					
				20	30	40	50		
②	Thread type	Nil	Rc	●	●	●	●		
		N	NPT	●	●	●	●		
		F	G	●	●	●	●		
+									
③	Port size 1(P), 2(A)	02	1/4	●	—	—	—		
		03	3/8	—	●	—	—		
		04	1/2	—	—	●	—		
		06	3/4	—	—	—	●		
		10	1	—	—	—	●		
+									
④	a	Mounting	Nil	Without mounting option	●	●	●	●	
			B	With bracket	●	●	●	●	
	+								
	b	Pressure gauge	Nil	Without pressure gauge	●	●	●	●	
			G	Round type pressure gauge (with limit indicator)	●	●	●	●	
	+								
c	Silencer	Nil	Without silencer	●	●	●	●		
		S	Silencer (Built-in)	●	●	●	●		
+									
⑤	d	Rated coil voltage	AC (50/60 Hz)	1	100 VAC	●	●	●	●
				2	200 VAC	●	●	●	●
				3	110 VAC [115 VAC]*1	●	●	●	●
			DC	4	220 VAC [230 VAC]*1	●	●	●	●
				5	24 VDC	●	●	●	●
				6	12 VDC	●	●	●	●
+									
⑥	e	Electrical entry	D	Type D (DIN terminal/With connector)	●	●	●	●	
			Y	Type Y (DIN terminal/With connector)*2	●	●	●	●	
			DO	Type D (DIN terminal/Without connector)	●	●	●	●	
			YO	Type Y (DIN terminal/Without connector)	●	●	●	●	
+									
⑦	f	Light/ surge voltage suppressor	Nil	None	●	●	●	●	
			Z	With light/surge voltage suppressor	○*3	○*3	○*3	○*3	
+									
⑧	g	Flow direction	Nil	Flow direction: Left to right	●	●	●	●	
			R	Flow direction: Right to left	●	●	●	●	
	+								
	h	Pressure unit	Nil	Name plate and pressure gauge in SI units: MPa	●	●	●	●	
Z			Name plate and pressure gauge in imperial units: psi	○*4	○*4	○*4	○*4		

*1 The 110 VAC and 115 VAC are interchangeable. The 220 VAC and 230 VAC are interchangeable as well. The allowable voltage fluctuation is -15% to +5% of the rated voltage for the 115 VAC or 230 VAC.
 *2 Type "Y" is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
 *3 When the electrical entry is DO or YO, light/surge voltage suppressor cannot be selected.
 *4 Only for the NPT thread

· Option: Select one each for **a** to **c**.
 · Option symbol: When more than one specification is required, indicate in alphabetical order.
Example) AV2000-02BGS-1D-A-X2004

Dimensions



Dimensions

[mm]

Model	Standard specifications											
	Port size			A	B	C	D	E	F	G	H	J
	1(P)	2(A)	3(R)									
AV2000-□02-1 to 6D/Y(Z)□-A-X2004	1/4	1/4	1/4	66	97	47	24.5	40	96	33	Width across flats 22	58
AV3000-□03-1 to 6D/Y(Z)□-A-X2004	3/8	3/8	3/8	76	97	50	29.5	40	96	38	Width across flats 24	63
AV4000-□04-1 to 6D/Y(Z)□-A-X2004	1/2	1/2	1/2	98	107	56	39.5	52	106	49	Width across flats 30	61
AV5000-□06,10-1 to 6D/Y(Z)□-A-X2004	3/4, 1	3/4, 1	3/4	128	109	59	53	74	108	53	Width across flats 36	80

[mm]

Model	Optional specifications													
	With bracket											With built-in silencer		
	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y
AV2000-□02-1 to 6D/Y(Z)□-A-X2004	30	50	51.5	44	5.5	10	66	2.3	33.5	54	—	M4 x 0.7 Depth 6	3	Width across flats 14
AV3000-□03-1 to 6D/Y(Z)□-A-X2004	41	50	53.5	46	5.5	15	70	2.3	33.5	54	—	M4 x 0.7 Depth 6	3	Width across flats 19
AV4000-□04-1 to 6D/Y(Z)□-A-X2004	50	60	64	54	8.5	18	90	3.2	39	74	—	M5 x 0.8 Depth 6.5	4	Width across flats 22
AV5000-□06,10-1 to 6D/Y(Z)□-A-X2004	70	75	70	60	11	16	100	3.2	45	80	56	M6 x 1 Depth 8	6	Width across flats 32

* Reference dimensions