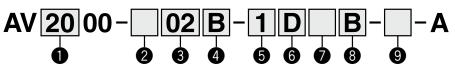
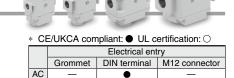
Soft Start-up Valve RoHS AV2000-A/3000-A/4000-A/5000-A Series

Symbol

How to Order





				•	•						
						B	0				
				_	Symbol	Symbol Description		Body size			
							20	30	40	50	
					Nil	Rc	•	•	•	•	
2			Thread ty	/pe	N	NPT	•	•	•	•	
		,,				G	•	•	•	•	
					+						
					02	1/4	•	_	_		
	Port size 1(P), 2(A)				03	3/8		•	_		
3					04	1/2		_	•		
					06	3/4	_	_	_	•	
					10	1	_	_	_		
					+	Well- and an angle of the second seco					
		а	Moi	unting	Nil B	Without mounting option With bracket					
					B	With bracket					
	ᇊ				Nil	Without pressure gauge					
4	Option	b	Pressure gauge		G	Round type pressure gauge (with limit indicator)					
	Ō				<u> </u>	Hourid type pressure gauge (with limit indicator)					
					Nil	Without silencer			•		
		С	Silencer		S	Silencer (Built-in)					
					+	Silencer (Built-III)					
					1 1	100 VAC					
		AC			2	200 VAC		•	•		
	_			(50/60 Hz)	3	110 VAC [115 VAC]*1		•	•	•	
5	Ra	ated (coil voltage	(00,001.12)	4	220 VAC [230 VAC]*1		•	•	•	
					5	24 VDC					
				DC	6	12 VDC	•	•	•	•	
					+						
						Grommet (Lead wire length: 300 mm)	•	•	•	•	
					D	Type D (DIN terminal/With connector)	•	•	•	•	
		Electrical auto-			Υ	Type Y (DIN terminal/With connector)*2	•	•	•	•	
6			Electrical entry		DO	Type D (DIN terminal/Without connector)	•	•	•	•	
					YO	Type Y (DIN terminal/Without connector)	•	•	•	•	
					KO	M12 connector (Without cable)	O*3	0*3	0*3	O*3	
					+			•			
a	Li	aht/s	surge voltage	suppressor	Nil	None	•	•	•	•	
		91103	Jaige voilage	Juppiessoi	Z	With light/surge voltage suppressor	O*4	0*4	0*4	0*4	
					+						
					Nil	Non-locking push type	•	•	•	•	
8	Manual override			erride	В	Push-turn locking slotted type	•	•	•		
					C +	Push-turn locking lever type					
	-									_	
	larc	명 d Flow direction			Nil	Flow direction: Left to right		•	•	•	
	d Flow direction e Pressure unit				R	Flow direction: Right to left		•			
9	-Sté				+						
	Pressure unit			ure unit	Nil	Unit on product label: MPa, Pressure gauge: MPa	0 *6	0 *6	0 *6	0 *6	
	ကိ	σ · · · · · · · · · · · · · · · · · ·			Z *5	Unit on product label: psi, Pressure gauge: MPa/psi dual scale	O*6	○*6	○*6	O*6	

- *1 The 110 VAC and the 115 VAC are interchangeable. The 220 VAC and the 230 VAC are interchangeable as well. The allowable voltage fluctuation is -15% to +5% of the rated voltage for the 115 VAC or the 230 VAC.
- *2 Type "Y" is a DIN terminal in compliance with EN-175301-803C (former DIN43650C).
- 3 When the electrical entry is "KO," only the DC specifications (5 or 6) can be selected for the rated coil voltage.
 *4 When the electrical entry is "DO" or "YO," the light/surge voltage suppressor cannot be selected.
 When it is "KO," only the "With light/surge voltage suppressor" option can be selected.
- *5 For the pipe thread type: NPT
- This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)
- *6 Pressure unit Z: For the pipe thread type: NPT only

- Select one each for options "a" to "c" and semi-standard options "d" and "e."
 - Option/Semi-standard symbol: When more than one specification is required, indicate in alphabetical order.

Example) AV2000-02BGS-1DB-A



AV 2000-A/3000-A/4000-A/5000-A Series

Specifications

	Body size	20	30	40	50			
Port size	1(P), 2(A)	1/4	3/8	1/2	3/4	1		
Port Size	3(R)	1/4	3/8	1/2	3/4			
Pressure gauge p	oort size	1/8						
Fluid				Air				
Ambient and fluid	temperatures	0 to	50°C (With solenoid	d valve), 0 to 60°C (V	Vithout solenoid valve	e)*1		
Proof pressure		1.5 MPa						
Operating pressu	re range	0.2 to 1.0 MPa						
	AV	0.43	0.45	0.80	1.30	1.25		
Waight [kg]	AVA	0.43	0.45	0.80	1.32	1.27		
Weight [kg]	AVL	0.62	0.64	0.99	1.51	1.46		
	AVL (With solenoid valve)	0.67	0.68	1.03	1.55	1.50		
Enclosure		Dust-protected (DIN terminal and M12 connector: IP65)*2						

^{*1} If the temperature is low, use the product with dry air to prevent it from freezing.

Solenoid Specifications

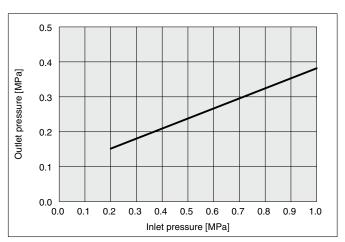
Electr	ical entry		Grommet	DIN terminal	M12 connector		
Detect coil voltere IVI	DC		24, 12 V				
Rated coil voltage [V]	AC 50/60 Hz		100, 200, 110 [1				
	DC	24 V	±10% of the rated voltage				
		12 V					
		100 V	±10% of the				
Allowable voltage		110 V*1	±10% of the				
fluctuation	AC	[115 V]	[-15% to +5% of				
	AC	200 V	±10% of the rated voltage				
		220 V*1	±10% of the				
		[230 V]	[-15% to +5% of				
Power consumption [W]			0.35 (With light: 0.40)	0.35 (With light: 0.45)	With light: 0.40		
		100 V	0.78 (With light: 0.81)	0.78 (With light: 0.86)			
		110 V	0.86 (With light: 0.89)	0.86 (With light: 0.97)			
Apparent power [VA]	AC	[115 V]	[0.94 (With light: 0.97)]	[0.94 (With light: 1.07)]			
Apparent power [VA]		200 V	1.18 (With light: 1.22)	1.15 (With light: 1.30)			
		220 V	1.30 (With light: 1.34)	1.27 (With light: 1.46)			
		[230 V]	[1.42 (With light: 1.46)]	[1.39 (With light: 1.60)]			
Surge voltage suppre	essor		Refer to the Specific Product Precautions 4 (page 21) and 5 (page 22).				
Indicator light			LED	LED (Neon bulb for AC)	LED		

^{*1} The 110 VAC and the 115 VAC are interchangeable. The 220 VAC and the 230 VAC are interchangeable as well.

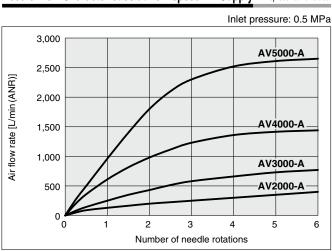
Flow Rate Characteristics

Body size				20	30	40	50	
Port size	1(P), 2(A)		1/4	3/8	1/2	3/4	1	
POIT SIZE		3(R)		1/4	3/8	1/2	3/4	
			C[dm ³ /(s·bar)]	9.2	13.1	19.2	34.8	41.3
	1(P) → 2(A)	→ 2(A) [b	0.36	0.27	0.32	0.66	0.34
Flow rate			Cv	2.4	3.1	5.1	12.6	13.7
characteristics		C[dm³/(s·bar)] 8.8 9.2 1		10.1	23	.7		
	2(A) —	$\begin{array}{c c} 2(A) \rightarrow 3(R) & b \\ \hline Cv \\ \end{array}$	b	0.46	0.48	0.55	0.67	
			Cv	2.5	2.6	3.2	9.	2

Pressure for Switching from Low-speed Air Supply to Rapid Air Supply



Needle Flow Characteristics at Low-speed Air Supply * Representative values



^{*2} Based on IEC 60529