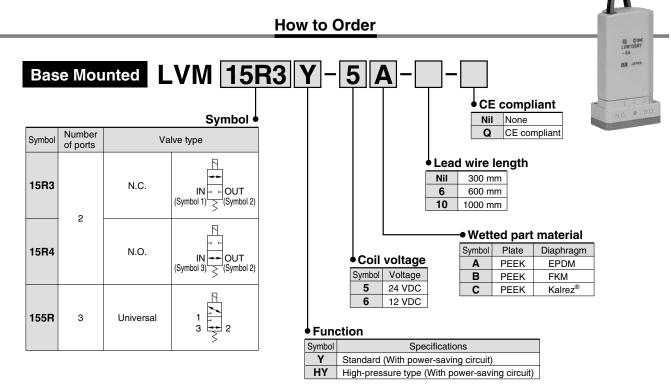
Compact Direct Operated 2/3 Port Solenoid Valve for Chemicals Series LVM15/150



Specifications

Model		Base mounted			
		LVM15R3	LVM15R4	LVM155R	
Valve construction		Diaphragm type direct operated poppet (Rocker type)			
Valve type		N.C.	N.O.	Universal	
Number of ports		2 3		3	
Fluid Note 1)	Fluid Note 1)		Air, Water, Pure water, Diluent, Cleaning solvent		
Operating pressure range		-75 kPa to 0.25 MPa [0 to 0.6 MPa]			
Orifice diameter		1.6 mm [1 mm]			
Response time		15 ms or less (at pneumatic pressure)			
Leakage		Zero leakage, either external or internal (at water pressure)			
Proof pressure Note 2)		0.38 MPa [0.9 MPa]			
Ambient temperature		0 to 50°C			
Fluid temperature		0 to 50°C (with no condensation)			
Volume of valve chamber Note 3)		50 μ <i>ℓ</i>			
Mounting orientation Note 4)		Free			
Enclosure		IP40 or equivalent			
Weight		45 g			
Rated voltage		12, 24 VDC			
Allowable voltage fluctuation Note 5)		±10% of rated voltage			
Type of coil insulation	Type of coil insulation		Class B		
Power consumption	Inrush	5.5 W			
(When rated voltage is at	musn	(0.23 A)			
24 V) Holdin		1 W			
Coil switching noise Note 6)		60 dB			
[] indicates high-pressure type.					

Flow Characteristics

Water	Air		
Av	Cv	С	b
0.96 x 10 ^{−6}	0.04	0.13	0.22
0.36 x 10 ⁻⁶]	[0.015]	[0.05]	[0.2]
	Av 0.96 x 10 ⁻⁶	Av Cv 0.96 x 10 ⁻⁶ 0.04	Av Cv C 0.96 x 10 ⁻⁶ 0.04 0.13

The values of Av and Cv are based on JIS B 2005:1995, C and b are based on JIB B 8390:2000.

Note 1) Select an appropriate material for the wetted part when fluid such as a cleaning solvent is used. Also, be sure to confirm the fluid compatibility in advance.

Note 2) Indicates the pressure which does not generate breakage, cracks or external leakage after a one-minute airtight test.

Note 3) Indicates the volume of clearance inside the valve chamber after the volume of the diaphragm is subtracted.

Note 4) Since the body (orifice shape) is designed to eliminate residual liquid, mounting in a vertical direction with the coil at the top is recommended. When residual liquid is not considered, any mounting orientation is available.

Note 5) When the response speed is regarded as important, prevent negative fluctuation of the voltage by adequate regulation.

Note 6) The value is based on SMC's measurement conditions. The noise level will vary with conditions.

Note 7) Refer to 10 in "Design and Selection" on the back of page 2, if the valve is to be energized continuously for extended periods of time.

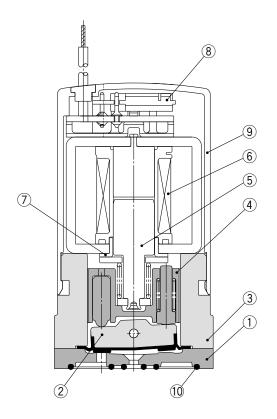


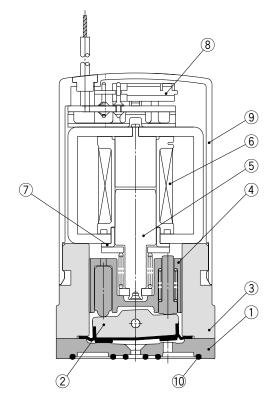
Compact Direct Operated 2/3 Port Solenoid Valve for Chemicals Series LVM15/150

Construction: Base Mounted

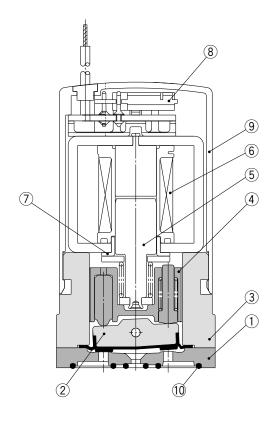
LVM15R3

LVM15R4





LVM155R



Component Parts:	I VM15B3	15 R 4	155R
Component Parts.		1004,	, ISSN

No.	Description	Material	
1	Plate	PEEK	
2	Diaphragm assembly	EPDM/FKM/Kalrez [®]	
3	Body	PBT	
4	Slide bushing assembly	PPS/Stainless steel	
5	Armature assembly	—	
6	Coil assembly	—	
7	Sleeve	SUY	
8	Board assembly	_	
9	Casing	PBT	
10	Interface gasket	EPDM/FKM/Kalrez®	

Series LVM15/150

Dimensions: Base Mounted

