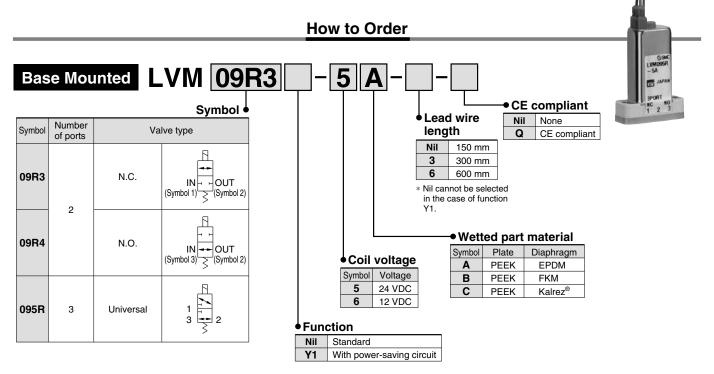
Compact Direct Operated 2/3 Port Solenoid Valve for Chemicals Series LVN09/090



Specifications

Model			Base mounted		
			LVM09R3	LVM09R4	LVM095R
Valve construction		Diaphragm type direct operated poppet (Rocker type)			
Valve type			N.C.	N.O.	Universal
Number of ports		2 3			
Fluid Note 1)		Air, Water, Pure water, Diluent, Cleaning solvent			
Operating pressure range		-75 kPa to 0.2 MPa			
Orifice diameter		1.1 mm			
Response time		10 ms or less (at pneumatic pressure)			
Leakage		Zero leakage, either external or internal (at water pressure)			
Proof pressure Note 2)			0.3 MPa		
Ambient temperature		0 to 50°C			
Fluid temperature		0 to 50°C (with no condensation)			
Volume of valve chamber Note 3)		18 µℓ			
Mounting orientation Note 4)		Free			
Enclosure			IP40 or equivalent		
Weight			20 g		
Rated voltage			12, 24 VDC		
Allowable voltage fluc	tuation ^ト	lote 5)	±10% of rated voltage		
Type of coil insulation			Class B		
	Standa	rd	2 W		
Power consumption	Standard		(0.08 A)		
(When rated voltage	With power- saving	Inrush	3.3 W		
is at 24 V)			(0.14 A)		
	circuit	Holding		0.9 W	
Coil switching noise Note 6)		50 dB			

Flow Characteristics

Water		Air		
Av	Cv	С	b	
0.43 x 10 ^{−6}	0.018	0.06	0.2	
The values of Av and Cy are based on US B 2005,1005				

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.

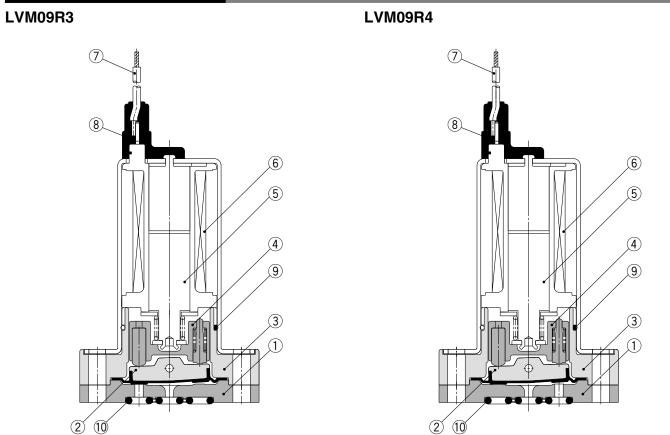
Note 6) The value is based on SMC's measurement conditions. The noise level will vary with conditions.

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.



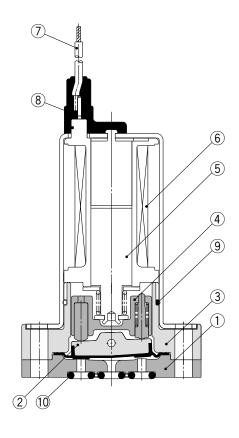
Compact Direct Operated 2/3 Port Solenoid Valve for Chemicals Series LVM09/090

Construction: Base Mounted



LVM095R

2 10



Component Parts:	LVM09R3	09R4	095R
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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	Lead wire	—	
8	Mold	PET	
9	O-ring	NBR	
10	Interface gasket	EPDM/FKM/Kalrez®	

Series LVM09/090

Dimensions: Base Mounted

