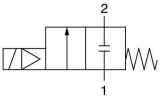
For Air

∗ Can be used with low vacuum (up to 133 Pa.abs).

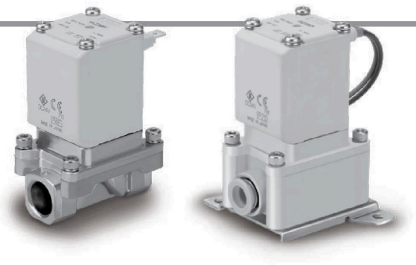
Flow Rate Characteristics

N.C.

Symbol



When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid and it will flow from port 2 to port 1.



Normally Closed (N.C.)

Body material	Port size (Nominal diameter)	Orifice diameter (mmø)	Model	Min. operating pressure differential Note 1) (MPa)	Max. operating pressure differential Note 3) (MPa)		Flow rate characteristics				Max. system pressure Note 3) (MPa)	Note 2) Weight (g)
					AC	DC	C [dm³/(s·bar)]	b	Cv	Effective area (mm²)		
Resin	ø10	10	**VXZ230**	0	1.0	0.7	6.2	0.38	1.7	—	1.5	400
	ø3/8"						5.3		1.2			
	ø12						8.0		2.0			
Aluminum	1/4 (8A)						8.5	0.44	2.4			600
	3/8 (10A)						9.3	0.43	2.6			
C37, Stainless steel	1/2 (15A)	15	**VXZ240**				23.0	0.34	6.0			720
	3/4 (20A)	20	**VXZ250**			1.0	36.0	0.26	9.4			1100
	1 (25A)	25	**VXZ260**				—			185		1300

Note 1) The operation of the valve may be unstable due to the capacity of the pressure supply source such as pumps and compressors or the pressure loss by the orifice of piping. Please contact SMC to check if the required valve size can be used in the application. Please contact SMC for the compatibility of the circuit flow and valve size. (Refer to page 195.)
Note 2) Weight of grommet type. Add 10 g for conduit, 30 g for DIN terminal, and 60 g for conduit terminal type respectively.
Note 3) Refer to "Glossary of Terms" on page 202 for details on the maximum operating pressure differential and the maximum system pressure.

Fluid and Ambient Temperature

Fluid temperature (°C)	Ambient temperature (°C)
−10 Note) to 60	−20 to 60

Note) Dew point temperature: −10°C or less

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate (Air) Note 1) 2)
NBR (FKM) Note 3)	15 cm³/min or less (Aluminum body type)
	15 cm³/min or less (Resin body type)
	1 cm³/min or less (Metal body type)

External Leakage

Seal material	Leakage rate (Air) Note 1)
NBR (FKM) Note 3)	15 cm³/min or less (Aluminum body type)
	15 cm³/min or less (Resin body type)
	1 cm³/min or less (Metal body type)

Note 1) Leakage is the value at ambient temperature 20°C.
Note 2) Leakage is the value when the pressure differential ranges from 0.01 MPa to the maximum operating pressure differential.
Note 3) For seal material/FKM, refer to "Other options" on page 192 for the selection.
Note 4) When the product is used with low vacuum (to 133 Pa.abs), give caution to the external leakage outlined above.