For Medium Vacuum (0.1 Pa·abs or more) Single Unit

∗ This valve can also be used with air.
(Refer to the valve specifications for air.)

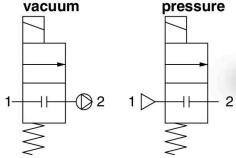
Model/Valve Specifications

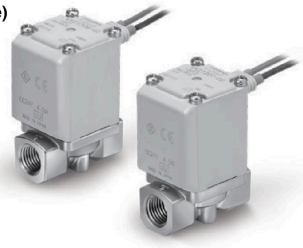
Symbol (Application example)

N.C.

① Used with vacuum

② Used with pressure





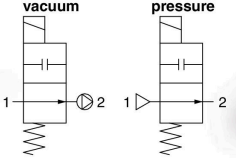
When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid and it will flow from port 2 to port 1.

Symbol (Application example)

N.O.

① Used with vacuum

② Used with pressure



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.)

Size	Port size	Orifice diameter (mmø) Note 1)	Model	Flow rate characteristics Note 2)			Maximum operating pressure differential (MPa) Note 4)	Max. system pressure (MPa)	Weight Note 3) (g)
				C [dm³/(s·bar)]	b	Cv			
1	1/8, 1/4	2	VX214	0.63	0.63	0.23	1.0	1.0	300
		3		1.05	0.68	0.41	0.6		300
		5		2.20	0.39	0.62	0.2		300
2	1/4, 3/8	4	VX224	1.90	0.52	0.62	1.0		460
		7		3.99	0.44	1.08	0.15		460
3	1/4, 3/8	5	VX234	1.96	0.55	0.75	1.0		580
		8		5.67	0.33	1.58	0.3		580
		10		5.74	0.64	2.21	0.1		580
	1/2	10		8.42	0.39	2.21	0.1		630

Normally Open (N.O.)

Size	Port size	Orifice diameter (mmø) Note 1)	Model	Flow rate characteristics Note 2)			Maximum operating pressure differential (MPa) Note 4)	Max. system pressure (MPa)	Weight Note 3) (g)
				C [dm³/(s·bar)]	b	Cv			
1	1/8, 1/4	2	VX244	0.63	0.63	0.23	0.9	1.0	320
		3		1.05	0.68	0.41	0.45		320
		5		2.20	0.39	0.62	0.2		320
2	1/4, 3/8	4	VX254	1.90	0.52	0.62	0.8		490
		7		3.99	0.44	1.08	0.15		490
3	1/4, 3/8	5	VX264	1.96	0.55	0.75	0.8		620
		8		5.67	0.33	1.58	0.3		620

Note 1) The orifice size is just as a reference guide. Check the flow rate characteristics (conversion Cv).
Note 2) The flow rate characteristics of this product have variations.
When the highly precise flow control is required according to the system to be used, select an orifice diameter 1.3 times larger than that shown above and install a restrictor on the downstream side of the solenoid valve to make the adjustment.
Note 3) Weight of grommet type. Add 10 g for conduit type, 30 g for DIN terminal type, 60 g for conduit terminal type respectively.
Note 4) Refer to "Glossary of Terms" on page 65 for details on the maximum operating pressure differential.

Fluid and Ambient Temperature

Fluid temperature (°C)	Ambient temperature (°C)
1 to 60 Note)	–20 to 60

Note) With no freezing

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate Note)
FKM	10^{-6} Pa·m³/sec or less

External Leakage

Seal material	Leakage rate Note)
FKM	10^{-6} Pa·m³/sec or less

Note) Leakage (10^{-6} Pa·m³/sec) is the value at differential pressure 0.1 MPa and ambient temperature 20°C.