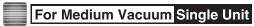
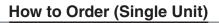
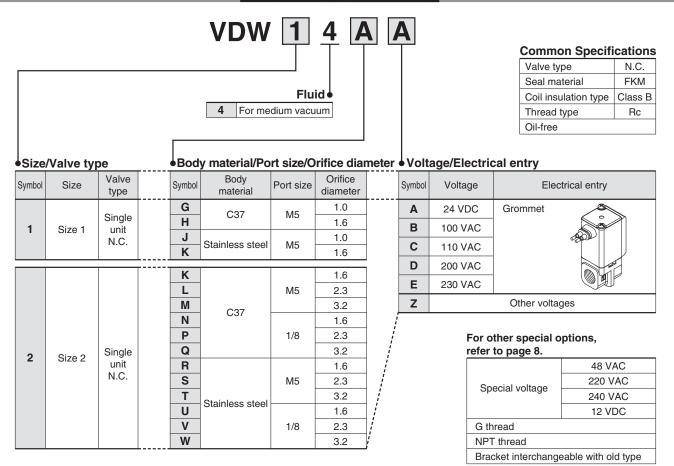
Compact Direct Operated 2 Port Solenoid Valve Series VDW









Dimensions→Page 9 (Single unit)



Model/Valve Specifications

N.C.

Configuration symbol



Note) The configuration symbol shows ports 1 and 2 as blocked, but there is actually a limit to the blocking capability when the pressure of port 2 is greater than the pressure of port 1. Please contact SMC when low leakage performance is required.





Normally Closed (N.C.) C37, Stainless Steel Body Type

Size	Port size	Orifice diameter	Model	Flow-rate characteristics		Maximum operating pressure differential psi (MPa)	Weight
		(mmø)		AV (x10 ⁻⁶ m ²)	Conversion Cv	Pressurized port 1	ŭ
4	M5	1.0	VDW12	0.96	0.04	131 (0.9)	C37: 65 Stainless steel: 2.1oz (60g)
•		1.6		1.70	0.07	58 (0.4)	
	M5, 1/8	1.6	VDW22	1.70	0.07	102 (0.7)	C37: 115 Stainless steel: 3.5oz (100g)
2		2.3		4.30	0.18	58 (0.4)	
		3.2		7.20	0.30	29 (0.2)	

Resin Body Type

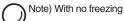
Tiesin body Type							
Size	Port size	Orifice diameter (mmø)	Model	Flow-rate characteristics		Maximum operating pressure differential psi (MPa)	Weight
				AV	Conversion Cv	Pressurized port 1	
4	M5 ø3.2 One-touch fitting ø4 One-touch fitting	1.0	VDW12	0.96	0.04	131 (0.9)	1.6 oz (45g)
•		1.6		1.70	0.07	58 (0.4)	
	M5 ø4 One-touch fitting ø6 One-touch fitting	1.6	VDW22	1.70	0.07	102 (0.7)	2.8 oz (80g)
2		2.3		4.30	0.18	58 (0.4)	
		3.2		7.20	0.30	29 (0.2)	



Refer to "Glossary of Terms" on page 12 for details on the maximum operating pressure differential.

Fluid and Ambient Temperature

Fluid temperature F° (°C)	Ambient temperature F° (°C)
33.8 to 122° (1 to 50)	14 122 (-10 to 50)
	•



Valve Leakage

Internal Leakage Note 1)Internal leakage when pressure is supplied to Port 1 (IN).

	Seal material	Leakage rate (Water) Note 2)
	NBR	0.1 cm³/min or less (C37, Stainless steel body type)
	INDH	1 cm ³ /min or less (Resin body type)

External Leakage

Seal material	Leakage rate (Water) Note 2)		
NBB	0.1 cm ³ /min or less (C37, Stainless steel body type)		
INDR	1 cm³/min or less (Resin body type)		



Note 2) Leakage is the value at ambient temperature $68^{\circ}F$ ($20^{\circ}C$).

