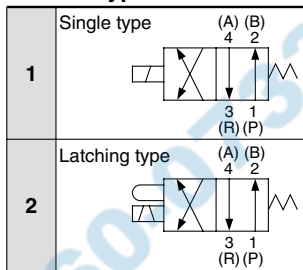


# 4 Port Solenoid Valve Direct Operated Poppet Type Series VQD1000 CE

## How to Order Valves

VQD1 1 5 1 - 5 L - -

### Type of actuation



### Body type

2	Body ported (Single unit)
3	Body ported (Manifold)
5	Base mounted

Note) Latching type: Base mounted type only.

### Valve option

Nil	Standard
V	Vacuum
U	For large flow <sup>(1)</sup>
W	For large flow, vacuum <sup>(1)</sup>

Note 1) Latching type: U and W only

Note 2) Latching type (-COM): NU and NW

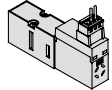
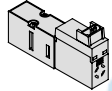
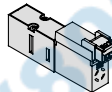
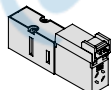
### Made to Order

X16 Fluid-contact part: Oil-free

### Port size

Body ported	M5	M5 thread
Base mounted	Nil	Without sub-plate (Manifold)
	M5	M5 thread

### Electrical entry

<b>L:</b> Plug lead type L plug connector, With lead wire With light/surge voltage suppressor	
<b>LO:</b> Plug lead type L plug connector, Without connector With light/surge voltage suppressor	
<b>M:</b> Plug lead type M plug connector, With lead wire With light/ surge voltage suppressor	
<b>MO:</b> Plug lead type M plug connector, Without connector With light/surge voltage suppressor	

Note) When you expect to energize the unit for extended periods of time, refer to page 3 for details.

### Rated voltage

5	24 VDC
6	12 VDC

Note) Latching type: 24 VDC only

## Standard Specifications

Item	Type	Standard single type	Large-flow single type	Large-flow latching type
		(2W)	(3.2W-Energy saving type)	(2W)
Valve specifications	Valve construction	4 port direct operated poppet valve		
	Fluid	Air/Inert gas		
	Maximum operating pressure	0.7 MPa		
	Minimum operating pressure/Vacuum	0 MPa / -101.2 kPa		
	Response time <sup>(1)</sup>	ON: 4ms, OFF: 2ms	10ms or less	
	Ambient and fluid temperature	-10 to 50°C <sup>(2)</sup>		
	Lubrication	Not required		
	Manual override	Non-locking push type	Locking type	
	Shock/Vibration resistance <sup>(3)</sup>	150/30 m/s <sup>2</sup>		
	Mounting position	Unrestricted		
Electricity specifications	Enclosure	Dust tight		
	Mass	34 g	37 g	
	Coil rated voltage	DC	24 V, 12 V	24 DC
	Allowable voltage fluctuation	±10% of rated voltage		
	Coil insulation type	Class B or equivalent		
Power consumption	DC	2 W	3.2 W (Energy saving type) (Inrush: 3.2 W, Holding: 2.4 W)	2 W
Electrical entry	L plug connector, M plug connector (With indicator light and surge voltage suppressor)			

Note 1) Based on JIS B 8375-1981. Factor: With light/surge voltage suppressor (Use clean air).

Dispersion accuracy: ±1 ms

Note 2) Operating the valve at low temperatures may cause condensate to form, therefore dry air must be used.

Note 3) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)



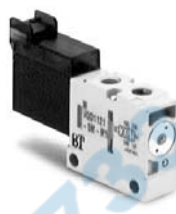
L plug connector  
Base mounted



L plug connector  
Body ported



M plug connector  
Base mounted



M plug connector  
Body ported