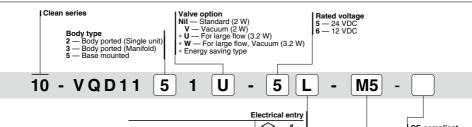
Series 10-VQD1000 4 Port Direct Operated Poppet Solenoid Valve

How to Order Valve



L: Plug lead type L plug connector. With lead wire With light/surge voltage suppressor

LO: Plug lead type L plug connector, Without connector With light/surge voltage suppressor

M: Plug lead type M plug connector, With lead wire With light/surge voltage suppressor

MO: Plug lead type M plug connector, Without connector With light/surge voltage suppressor

CE-compliant — None Q - CE-compliant

Port size Body ported - M5 x 0.8 thread Base mounted — M5 x 0.8 (with sub-plate) Note) No "Nil" for body ported type (VQD1131). type (VQD113

Note) When you expect to energize the unit for extended periods of time, refer to the 3/4/5 Port Solenoid Valves Precautions for details.





L plug connector Base mounted

L plug connector Body ported





M plug connector Base mounted

M plug connector Body ported

Symbol



Standard Specifications

_											
Iter	ns	ре	Standard type (2 W)	Large flow type (3.2 W / Energy saving type							
Valve specifications	Valve construction		4 port direct operated poppet valve								
	Fluid		Air/Inert gas								
	Maximum operating pre	essure	0.7 MPa								
	Minimum operating pressure /	Vacuum	0 MPa/-	101.2 kPa							
	Response time Note 1)		ON: 4 ms ±1, OFF: 2 ms ±1								
	Ambient and fluid temper	erature	-10 to 50°C Note 2)								
	Lubrication		Not required								
	Manual override		Non-locking push type								
<u>8</u>	Impact / Vibration resistar	nce Note 3)	150/30 m/s ²								
>	Mounting orientatio	n	Unrestricted								
	Enclosure		Dust tight								
	Weight		34 g (without sub-plate)								
8	Coil rated voltage	DC	24 V	24 V, 12 V							
cati	Allowable voltage fluct	uation	±10% of rated voltage								
Ğ	Coil insulation type		Equivalen	t to class B							
Electrical specification	Power consumption	DC	2 W	3.2 W (Energy saving type) Note 4) (Inrush 3.2 W, Holding 1.0 W)							
Electr	Electrical entry		L plug connector, M plug connector With light/surge voltage suppressor								

Note 1) Based on dynamic performance test, JIS B 8374-1981. (Coil temperature: 20°C, pressure: 0.5 MPa, at rated voltage, with light and surge suppressor, value at operation excluding restart period) The period immediately after a restart may be delayed for about 1 msec depending on operating conditions.

Note 2) Use dry air to prevent condensation when operating at low temperatures.

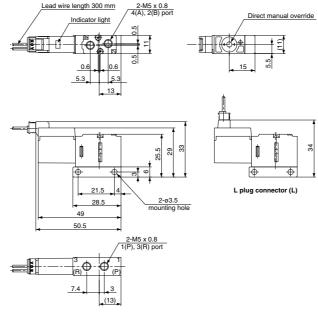
Note 3) Impact resistance: No malfunction occurred when it was tested with a drop tester in the axial direction and at right angles to the main valve and armature in both energized and de-energized states once for each condition. (Default settings) Vibration resistance: No malfunction occurred in a one-sweep between 8.3 and 2000 Hz. Test was performed in the axial direction

and at right angles to the main valve and armature in both energized and de-energized states. (Default settings) Note 4) For the start-up time, refer to the energy saving type's electrical power waveform shown in "Wiring Specifications" of Series VQD1000/Specific Product Precautions

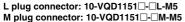
Flow Rate Characteristics

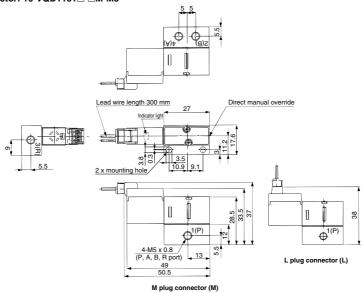
			Flow rate characteristics											
Va	lve model	Port size		1→4/2(P→A/B)		4/2→5/3(A/B→EA/EB)								
			C [dm ³ /(s·bar)]	b	Cv	C [dm3/(s·bar)]	b	Cv						
Body ported	10-VQD1121(V)-□M-M5		0.22	0.16	0.05	0.19	0.31	0.05						
Body ported	10-VQD1121W-□M-M5 10-VQD1151(V)-□M-M5	MEVOO	0.27	0.24	0.07	0.28	0.28	0.07						
Base mounted		0.22		0.10	0.05	0.22	0.31	0.06						
(With sub-plate)	10-VQD1151₩-□M-M5		0.27	0.25	0.07	0.27	0.28	0.07						

L plug connector: 10-VQD1121□-□L-M5 M plug connector: 10-VQD1121□-□M-M5



M plug connector (M)

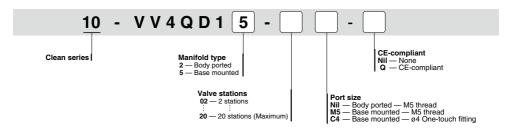




Manifold Specifications

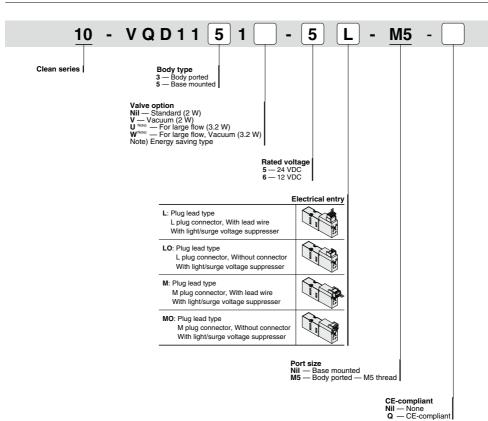
How to Order



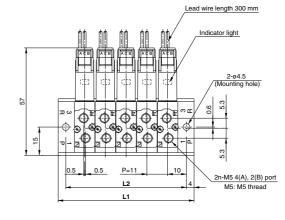


How to Order Valve

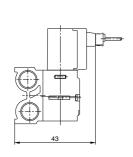


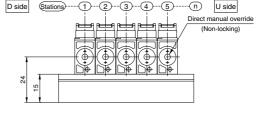


4-Rc1/8 1(P), 3(R) port 50.5 52 8 1 38 42







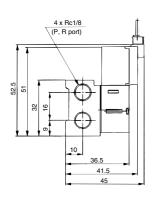


L plug connector (L)

Dimensions n: St															ations					
<u> I</u>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	28	39	50	61	72	83	94	105	116	127	138	149	160	171	182	193	204	215	226	237
L2	20	31	42	53	64	75	86	97	108	119	130	141	152	163	174	185	196	207	218	229

Dimensions

Plug lead unit manifold: 10-VV4QD15-□□

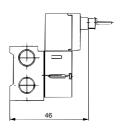


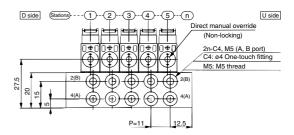
Indicator light

| Columbia | Col

Lead wire length 300 mm

M plug connector (M)





L plug connector (L)

Dimensions															n: S	tations			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	39	50	61	72	83	94	105	116	127	138	149	160	171	182	193	204	215	226	237
L2	31	42	53	64	75	86	97	108	119	130	141	152	163	174	185	196	207	218	229