5.0 MPa Pilot Operated 2 Port Solenoid Valve Series VCH40



Specifications

Model			VCH41 (N.C.)	VCH42 (N.O.)
Valve specification	Valve construction		Pilot operated, diaphragm poppet	
	Fluid 💽		Air, Insert gas	
	Orifice		ø16	ø17.5
	Flow characteristics	C value (Effective area)	17 dm ³ /(s•bar) (85 mm ²)	22 dm ³ /(s•bar) (110 mm ²)
		b	0.08	0.11
		Cv	4.5	5.8
	Max. operating pressure		5.0 MPa	
	Operating pressure		0.5 to 5.0 MPa	
	Fluid temperature		–5 to 80°C	
	Ambient temperature		–5 to 80°C	
	Body material		Brass	
	Main seal material		Polyurethane elastomer	
	Enclosure		Drip proof (Equivalent to IP65)	
	Port size		G3/4, 1 (Conforming to ISO1179-1 on the pneumatic/hydraulic G thread)	
	Impact/Vibration resistance		300/100 m/s ^{2 Note 2)}	
	Mounting orientation		Unrestricted	
	Ма	SS	1.67 kg 🦳	1.9 kg
ecification	Rated voltage		12 VDC, 24 VDC, 100 VAC, 200 VAC (50/60 Hz)	
	Allowable voltage fluctuation		±10% of rated voltage	
	Electrical entry		DIN connector	
il sp	Coil insulation type		Class B	
S	Power consumption Note 3) 5 W (DC), 13 V		13 VA (AC)	
Note 1) Impact registeres. No molfunction regulted in an impact test using a dr				and the second states at a second state of the second states of the second states at the seco

Response Time



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Note 1) DC solenoid without a light/surge voltage suppressor Note 2) AC or DC solenoid with an indicator light: It will cause delays around 20 to 30 msec in the OFF response time.

Note 1) Impact resistance:

ed in an impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions of the main valve and arma-ture, for both energized and de-energized states. (Value in the initial stage) Vibration resistance: No malfunction resulted in 8.3 to 2000 Hz, a one-sweep test performed in the axial and right angle directions of the main valve and armature for both energized and de-energ-ized states. (Value in the initial stage)

SNC

Note 2) Vibration resistance is 50 m/s² when a light/surge voltage suppressor is attached. Note 3) No inrush voltages are generated in the AC solenoid because a full-wave rectifier is used.

228