

ISO Standard Solenoid Valve/SIZE ②

Rubber Seal

Series VP7-8



With interface regulator

2 position	Single solenoid (FG-S)	Double solenoid (FG-D)	Reverse pressure* (YZ-S)	Reverse pressure* (YZ-D)
3 position	Closed center (FHG-D)	Exhaust center (FJG-D)	Double pilot check (FPG-D)	Pressure center* (FIG-D)
	*Option			

Standard Specifications

Fluid		Air	
Operating pressure (MPa)	Single	2 position	0.15 to 0.9
	Double	2 position	0.1 to 0.9
		3 position	0.15 to 0.9
Ambient and fluid temperature		Max. 50°C	
Manual operation		Non-locking	
Electric entry		DIN connector	
Lubrication		Turbine oil class 1 (ISOVG32), Non-lube operation possible.	
Shock/Vibration resistance ⁽¹⁾		300/50m/s ²	



Note 1) Shock resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed on the axis and right angle direction of the main valve and armature, for both energized and de-energized states.

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz. Test was performed at both energized and de-energized states to the axis and right angle direction of the main valve and armature. (value in the initial stage.)

Pilot Valve Specifications

Part No.	AXT511C-1	AXT511C-2	AXT511C-3	AXT511C-4
Rated voltage (V)	100V AC 50/60Hz	200V AC 50/60Hz	24V DC	12V DC
Inrush current (A) ⁽¹⁾	0.049/0.043	0.024/0.021	0.075	0.15
Holding current (A) ⁽¹⁾	0.031/0.020	0.015/0.01		
Allowable voltage (V)	85 to 110% of rated voltage			
Coil insulation	Class B (130°C) or equivalent			



Note 1) At rated voltage

Accessories

Mounting screw (washer)	TA-B-6 X 45
Gasket	AXT510-13

Option

Protection circuit	Surge voltage suppressor
Reverse pressure ⁽¹⁾	R1/R2 port pressurized, R1=P1 pressure, R2=P2 pressurization



Note 1) Operate under the condition of P1>P2 when "YZ-S" is operated.

Interface Regulator (Options)

Model	Regulation port	Note
ARB350-00-P	P	Refer to p.1.8-14 for specifications.
ARB350-00-A	A	
ARB350-00-B	B	

Model

No. of positions	Model	Effective area (Rc(PT) ^{3/8} With sub-plate) (mm ²)(Cv)	Max. operating frequency ⁽¹⁾ (c/s)	Response time ⁽²⁾ (S)	Weight ⁽³⁾ (kg)
2(Single)	VP7-8-FG-S-□	65 (3.6)	5	0.05 or less	0.92
2(Double)	VP7-8-FG-D-□	65 (3.6)	5	0.05 or less	1.12
3(Closed center)	VP7-8-FHG-D-□	57.6 (3.2)	3	0.07 or less	1.12
3(Exhaust center)	VP7-8-FJG-D-□	57.6 (3.2)	3	0.07 or less	1.12
3(Double pilot check)	VP7-8-FPG-D-□	40 (2.2)	3	0.07 or less	1.52
3(Pressure center)*	VP7-8-FIG-D-□	57 (3.17) [30.6 (1.7)]	3	0.07 or less	1.12



Note 1) Min. operating frequency: According to JIS B8375 (once in 30 days).

Note 2) According to JIS B8375-1975 dynamic performance test.(0.5MPa, Coil temperature: 20°C, At rated voltage, Without surge voltage suppressor)

Note 3) Without sub-plate. (Sub-plate: 0.68kg)

Note 4) []: In normal position. *Option