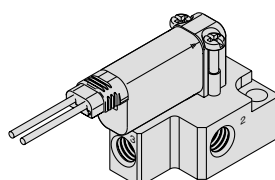


3 Port Solenoid Valve

Compact Direct Operated

Series S070

How to Order Valve



Base mounted

S070 B – **5** **B** **G** –

• **Body type**

Symbol	Body type
B	Base mounted with screws

• **Port size**

Symbol	Sub-plate
Nil	Without sub-plate
M3	With sub-plate
M5	With sub-plate

Body ported

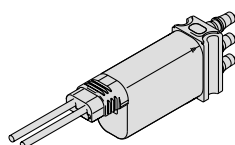
S070 C – **5** **B** **G** – **32**

• **Body type**

Symbol	Body type
C	Body ported

• **Port size**

Symbol	Connection	Applicable tubing
32	Barb fitting	ø3.18/ø2



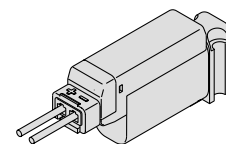
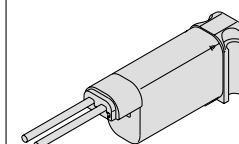
• **Coil voltage**

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

• **Electrical entry**

G – Grommet

C – Plug lead with light/
surge voltage
suppressor



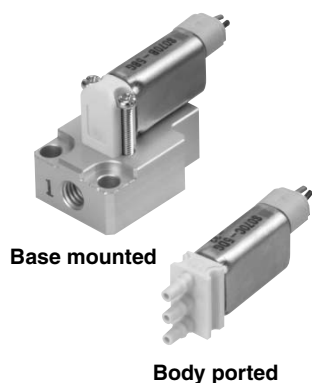
Power consumption – Pressure specification – Flow rate

Symbol	Power consumption (W)	Maximum operating pressure (MPa)	Cv factor
A	0.35	0.1	0.021
B		0.3	0.011
C		0.3	0.021
D	0.5	0.5	0.011
E Note)		0.1	0.011
F Note)	(With power saving circuit)	0.3	0.006

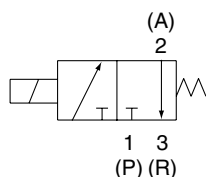


Note) An option only applicable to 24 VDC plug lead type.

3 Port Solenoid Valve Compact Direct Operated Series S070



JIS Symbol



Specifications

Valve construction	Poppet
Fluid	Air/Inert gas/Low vacuum (1.33×10^2 Pa)
Maximum operating pressure	0.3 MPa (0.35 W, 0.1 W), 0.5 MPa (0.5 W)
Proof pressure	1 MPa
Ambient and fluid temperature ^{Note 1)}	-10 to 50°C
Lubrication	Not required
Impact/Vibration resistance ^{Note 2)}	30/150 m/s ²
Enclosure	IP40
Weight	5 g (Single unit valve)
Mounting orientation	Free



Note 1) Use dry air and prevent condensation at low temperatures.

Note 2) Vibration resistance: No malfunction resulted in 45 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-energized states.

Impact resistance: No malfunction resulted 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 armature, for both energized and de-energized states.

With the 0.1 W specification, the vibration and impact resistance is 10/50 m/s² or less.

Note 3) With the low vacuum specification, the operating pressure range is 1.33×10^2 Pa to the maximum operating pressure.

Solenoid Specifications

Power consumption ^{Note 1)}	0.35 W (Standard), 0.5 W (High voltage), 0.1 W (Holding)
Rated coil voltage	3, 5, 6, 12, 24 VDC
Allowable voltage fluctuation ^{Note 2)}	±10% of the rated voltage
Coil insulation type	Equivalent to class B



Note 1) With a light/surge voltage suppressor and power saving circuit, the light consumes a power equivalent to 2 mA.

Note 2) With a power saving circuit, keep the voltage fluctuation within 24 VDC ± 5%.

Flow Specifications/Response Time

Power consumption	Maximum operating pressure	Flow characteristics			Response time ms ^{Note 2)}	
		C[dm ³ /(s bar)]	b	Cv	ON	OFF
0.5 W DC	0.5 MPa	0.042	0.27	0.011	3 or less	3 or less
	0.3 MPa	0.083	0.28	0.021	5 or less	3 or less
0.35 W DC	0.3 MPa	0.042	0.27	0.011	3 or less	3 or less
	0.1 MPa	0.083	0.28	0.021	5 or less	3 or less
0.1 W DC (at holding) with power saving circuit ^{Note 1)}	0.3 MPa	0.021	0.27	0.006	3 or less	6 or less
	0.1 MPa	0.042	0.28	0.011	5 or less	6 or less



Note 1) With the 0.1 W DC specification, keep the vibration/impact within 10/50 m/s².
0.35 W DC at inrush (20 ms) and 0.1 W DC at holding.

Note 2) The response time is the value at the rated voltage and maximum operating pressure.

V100

SY

SYJ

VK

VZ

VT

VP

VG

VP

S070

VQ

VKF

VQZ

VZ

VS

VFN