

ISO compliant master valve

PV5S-0 Series

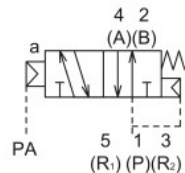
- Cylinder bore size: max. $\varnothing 100$ (PV5S-6-0)
max. $\varnothing 160$ (PV5S-8-0)

RoHS

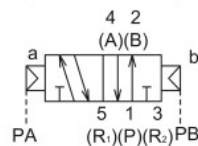
JIS symbol

- 5-port valve

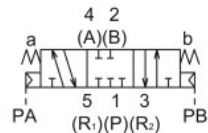
2-position single (FG-S)



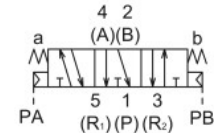
2-position double (FG-D)



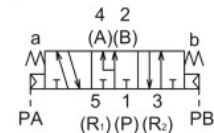
3-position all ports closed (FHG)



3-position A/B/R connection (FJG)



3-position P/A/B connection (FIG)



Specifications

Item	Description
Valve and operation	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	1.0 (≈150 psi, 10 bar)
Min. working pressure MPa	Refer to main pressure section in the table below
Proof pressure MPa	1.50 (≈220 psi, 15 bar)
Ambient temperature °C	-5 (23°F) to 60 (140°F) (no freezing)
Fluid temperature °C	5 (41°F) to 60 (140°F)
Lubrication	Not required
Vibration resistance m/s ²	50 or less
Shock resistance m/s ²	300 or less
Atmosphere	Cannot be used in corrosive gas environment.

Individual specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Model No.	Solenoid position	Pilot port PA/PB	Main pressure [MPa]	Pilot pressure [MPa]
PV5S-6	2-position single	Rc1/8	0.15 to 1.0	(0.6 x main pressure + 0.06) to 1.0
	2-position double		0 (≈0 psi, 0 bar)	0.15 to 1.0
	3-position all ports closed		to 1.0 (≈150 psi, 10 bar)	0.25 to 1.0
	3-position A/B/R connection			
	3-position P/A/B connection			
PV5S-8	2-position single	Rc1/8	0.15 to 1.0	(0.6 x main pressure + 0.06) to 1.0
	2-position double		0 (≈0 psi, 0 bar)	0.15 to 1.0
	3-position all ports closed		to 1.0 (≈150 psi, 10 bar)	0.25 to 1.0
	3-position A/B/R connection			
	3-position P/A/B connection			

Weight

Model No.	Solenoid position	Weight [kg]
PV5S-6	2-position single	0.31
	2-position double	0.36
	3-position	0.39
PV5S-8	2-position single	0.48
	2-position double	0.52
	3-position	0.56

*1: The weight listed is the weight without the sub-plate and option code ML.

Flow characteristics

C[dm³/(s·bar)]

Model No.	Solenoid position	P ⇒ A/B	A/B ⇒ R
PV5S-6	2-position single	4 or more	4 or more
	2-position double		
	3-position all ports closed		
	3-position A/B/R connection		
	3-position P/A/B connection		
PV5S-8	2-position single	9 or more	9 or more
	2-position double		
	3-position all ports closed		
	3-position A/B/R connection		
	3-position P/A/B connection		

*2: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.