

Valve Specification

The PL series is a lightweight plastic three-way ball valve with excellent chemical resistance. Three connection methods, four different body materials, and two different O-ring materials are available to meet the requirements of the pipes and fluids. The combination of these valves can be used for a wide range of applications.

Specifications

Model	PL
Type	Vertical three-way plastic ball valve, L full-port
Structure	Floating ball valve
Fluid	Water, Chemicals, Sea water
Flow direction	Switching the flow path
Max working pressure	1 MPa
Max allowable pressure	1 MPa

Production range

Connection	JIS 10K FF Flanged end				Threaded end Rc (JIS B 0203)				Socket end*1		
Body material	PVC	C-PVC	PVDF*2	PP*2	PVC	C-PVC	PVDF*2	PP*2	PVC	C-PVC	PP*1*2
Ball material	PVC	C-PVC	PVDF*2	PP*2	PVC	C-PVC	PVDF*2	PP*2	PVC	C-PVC	PP*1*2
Seat material	PTFE										
Stem seal material	EPDM O-ring / FKM O-ring										
Size	15A, 20A, 25A, 32A*1, 40A, 50A, 65A, 80A, 100A										

*1: There is no 32A in the socket type made of PP. *2: Semi-standard

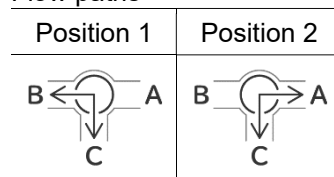
Cv value

Size	15A	20A	25A	32A	40A	50A	65A	80A	100A
Cv value	6.3	8.5	20	27	36	45	84	99	200

Valve model code configuration

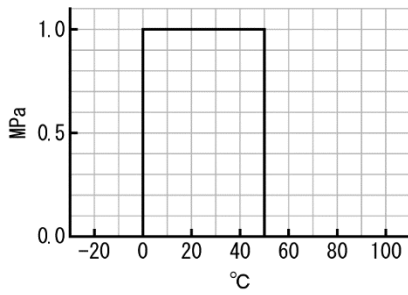
PL	1	P	P	E	-	025	
							Size
							Enter three digits. ex. 25A is 025
							Stem seal material
							Ⓔ: EPDM Ⓟ: FKM
							Ball material
							Ⓟ: PVC Ⓜ: C-PVC Ⓡ: PVDF Ⓢ: PP
							Body material
							Ⓟ: PVC Ⓜ: C-PVC Ⓡ: PVDF Ⓢ: PP
							Connection
							①: JIS 10K Flanged end ⑤: Threaded end Rc ⑦: Socket end
							Model

Flow paths

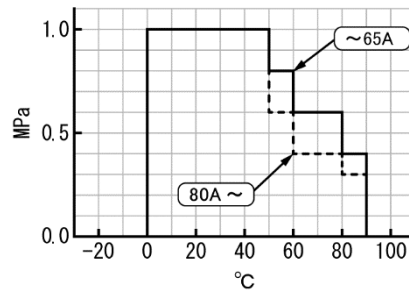


Note) If high pressure is applied from the closed port, leakage may occur to the fluid path.

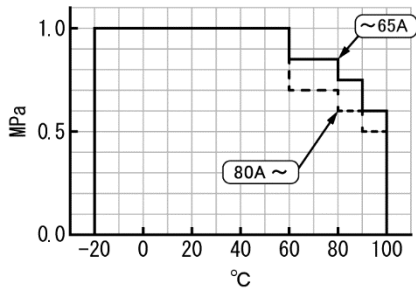
| Pressure & Temperature rating (PVC)



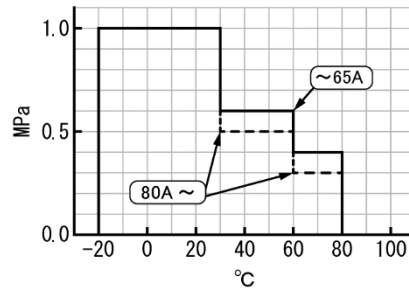
| Pressure & Temperature rating (C-PVC)



| Pressure & Temperature rating (PVDF)



| Pressure & Temperature rating (PP)



Notes for pipe design

- Do not use for gas or other compressible fluids.
- If hydrogen peroxide or other chemicals that tend to generate gas by decomposition are used, the gas generated may cause high pressure inside the valve and damage the valve.
- Always avoid areas where water or dust may be splashed or exposed to direct sunlight.