



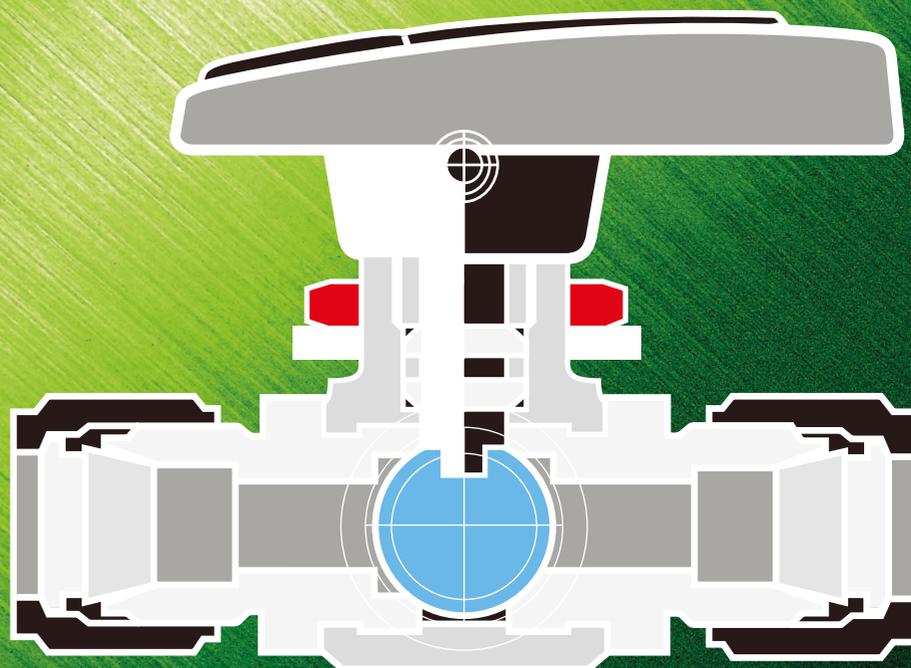
Panel Mounting
4.90 MPa Ball Valves

Compact and Lightweight



Ball Valves

- Compact and lightweight
- 4.90 MPa

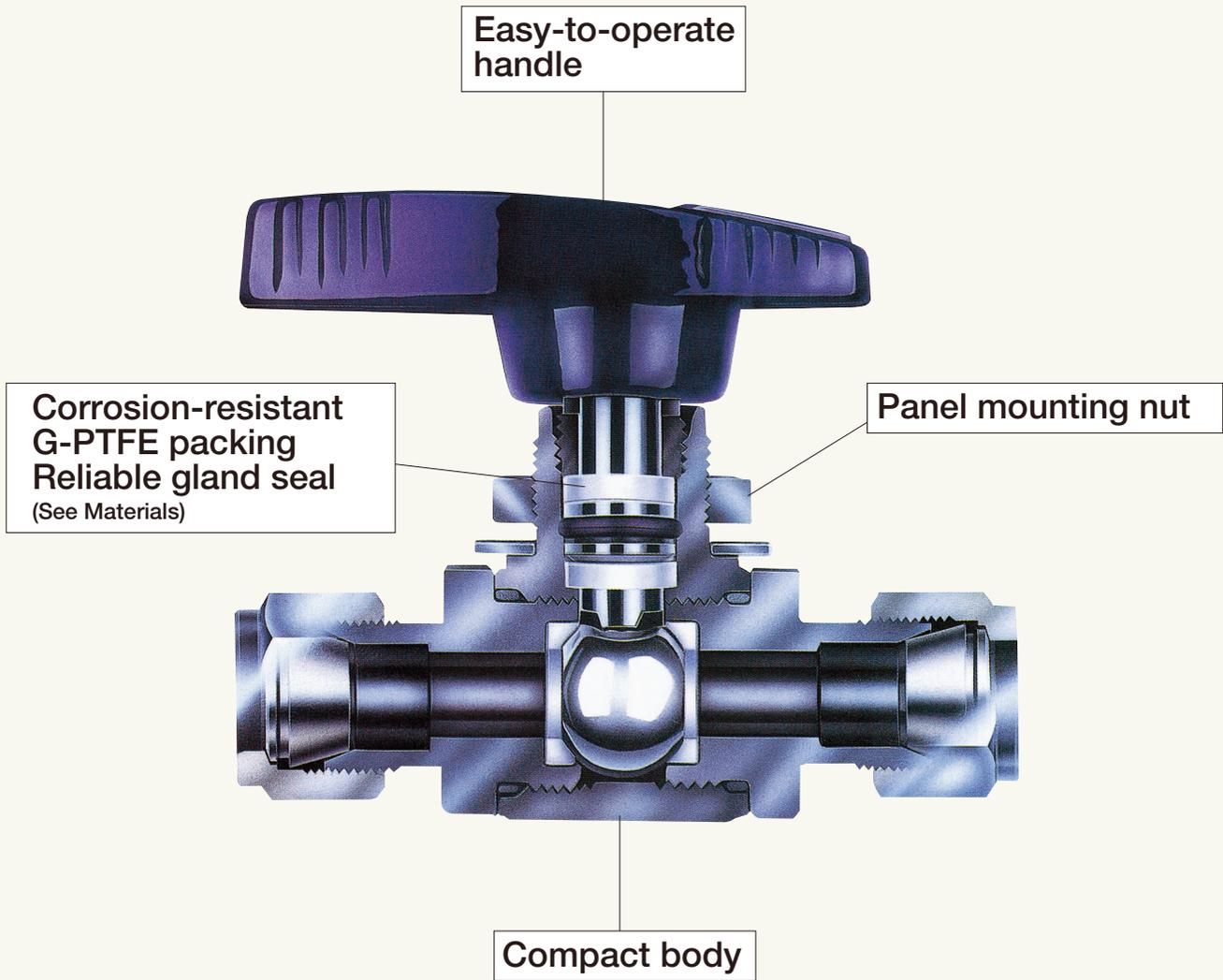


Fujikin Incorporated

We welcome customer feedback for all of our products and services.

POWERFULL SERIES Panel Mounting Ball Valves

Compact and Lightweight 4.90 MPa SCS14 Ball Valves



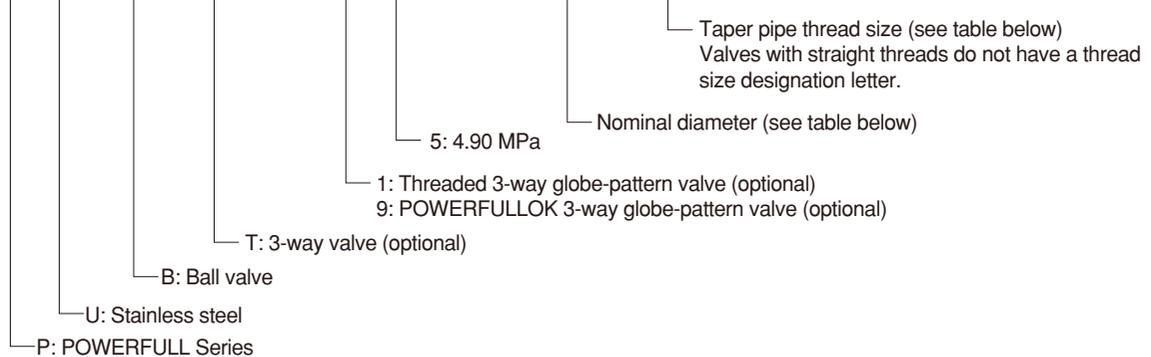
Identification of Valve Sizes (mm and fractional inch) and Thread Type (Rc and NPT)

Metric (mm)	Fractional inch	Rc thread	NPT thread

Part Number Designation

- Please use the part number designations below when placing an order or making an inquiry.

PUBVT — 95 — 6.35 B



Nominal Diameter (tube diameter)

	Port size in mm	Port size in fractional inches
Nominal diameter (tube diameter)	3 = 3mm	3.2 = 3.2mm (1/8")
	4 = 4mm	6.35 = 6.35mm (1/4")
	6 = 6mm	9.52 = 9.52mm (3/8")
	8 = 8mm	12.7 = 12.7mm (1/2")
	10 = 10mm	
	12 = 12mm	

Thread Size (taper pipe thread)

Designation		A	B	C	D	
Taper pipe thread	JIS B02J3 (1981)	PT 1/8	PT 1/4	PT 3/8	PT 1/2	
	JIS B0203 (1982) (ISO 7-1)	Male thread	R 1/8	R 1/4	R 3/8	R 1/2
		Female thread	Rc 1/8	Rc 1/4	Rc 3/8	Rc 1/2

Thread designations comply with JIS B0203 (1982) (ISO 7-1).

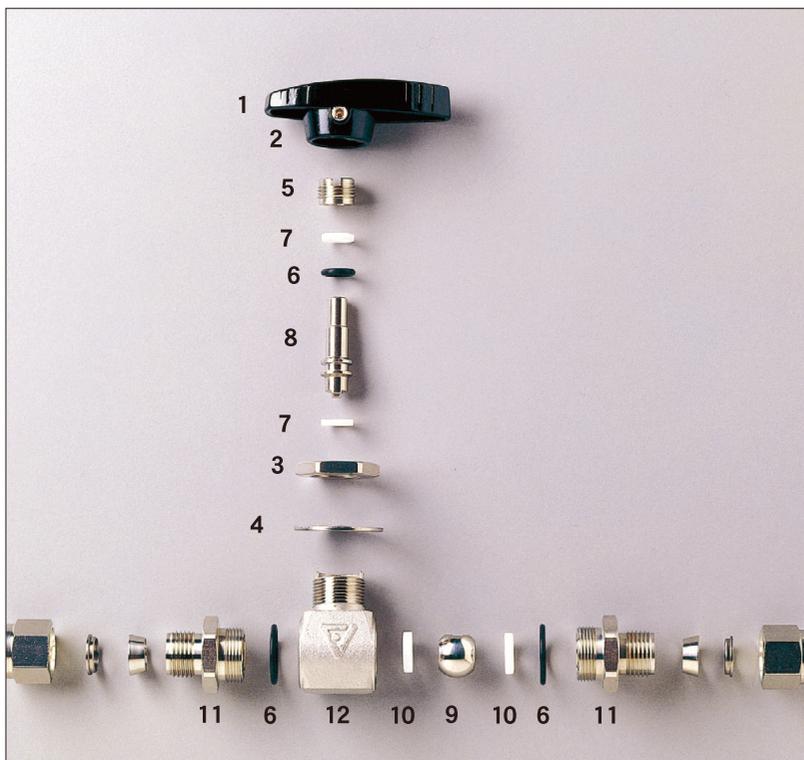
Materials

No.	Part	Material	
1	Handle	ZDC2	
2	Set screw	SUS 304	
3	Panel nut	SUS 304	
4	Panel washer	SUS 430	
5	Gland bolt	SUS 316	
*	6	O-ring	Fluororubber
*	7	Gland packing	G-PTFE
*	8	Stem	SUS 316
*	9	Ball	SUS 316
*	10	Seat	G-PTFE
*	11	End screw	SUS 316
*	12	Body	SCS 14

* Wetted part

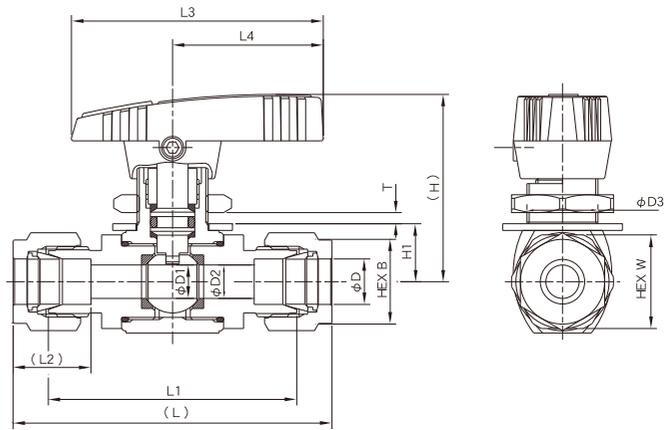
Note:

This valve may not be used with fluids that react with or swell its fluororubber O-rings (e.g., ammonia, CFC, acetic acid, nitrous oxide, ethylene oxide, acetone). If you have questions about the fluid media that you are planning to use, please contact Fujikin before selecting this valve.



Stainless Steel 4.90 MPa POWERFULL SERIES Panel Mounting Ball Valves

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Individual drawings may be downloaded from the CAD Data Service section of the Fujikin website. https://www.fujikin.co.jp/cad_se/

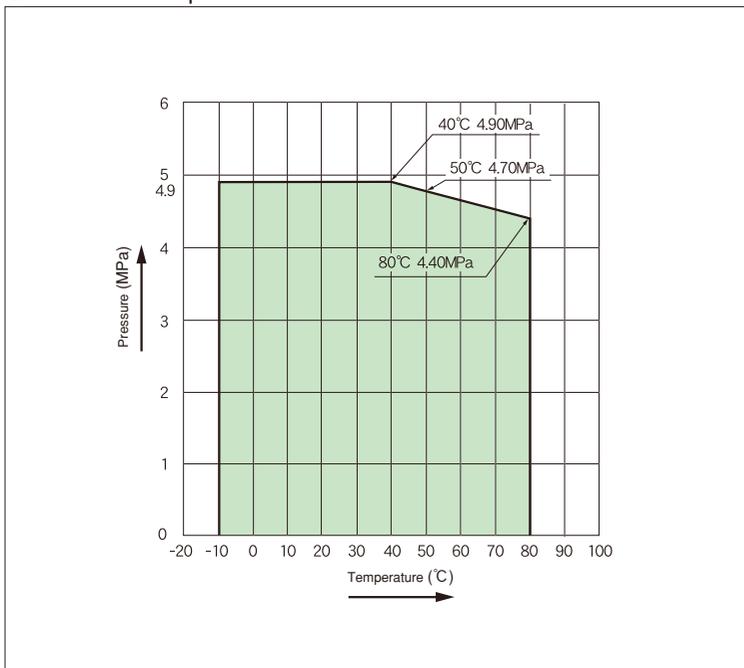
●Dimensions (mm)

Nominal dia. D	Orifice dia. D1	Hole dia. D2	Face-to-face dimension		Connecting thread		Handle length		Height when fully open H	Panel mounting		Width across flats W	Panel thickness T		Cv value	Mass (approx.) kg	Part number
			L	L1	L2	B	L3	L4		H1	D3		MIN.	MAX.			
3	5	2.4	58.2	45	12.9	10	47	28	38	11	14.5	17	1	5	0.33	0.13	PUBV-95-3
4	5	3.2	60.2	47	13.7	12	47	28	38	11	14.5	17	1	5	0.5	0.13	PUBV-95-4
6	5	4.8	62.8	48	15.2	14	47	28	38	11	14.5	17	1	5	1.4	0.13	PUBV-95-6
8	5	5	64	49	16.2	16	47	28	38	11	14.5	17	1	5	1.4	0.2	PUBV-95-8
10	7.5	7.9	71.2	56	17.2	19	57	34	42	13	16.5	21	1	5	3.5	0.2	PUBV-95-10
12	10	9.5	79.2	59	22.8	22	57	34	45	16	16.5	26	1	5	6.5	0.29	PUBV-95-12

●Dimensions (fractional inches expressed as mm)

Nominal dia. D	Orifice dia. D1	Hole dia. D2	Face-to-face dimension		Connecting thread		Handle length		Height when fully open H	Panel mounting		Width across flats W	Panel thickness T		Cv value	Mass (approx.) kg	Part number
			L	L1	L2	B	L3	L4		H1	D3		MIN.	MAX.			
3.2	5	2.7	58.2	45	12.7	10	47	28	38	11	14.5	17	1	5	0.34	0.13	PUBV-95-3.2
6.35	5	4.8	62.8	48	15.2	14	47	28	38	11	14.5	17	1	5	1.4	0.13	PUBV-95-6.35
9.52	7.5	7.1	68.8	54	16.8	17	57	34	42	13	16.5	21	1	5	3.5	0.2	PUBV-95-9.52
12.7	10	10.4	79.2	59	22.8	22	57	34	45	16	16.5	26	1	5	6.5	0.29	PUBV-95-12.7

●Pressure-Temperature Curve



●Materials

Part	Material
* Body	SCS 14
* End screw	SUS 316
* Seat	G-PTFE
* Ball	SUS 316
* Gland packing	G-PTFE
* Stem	SUS 316
* Handle	ZDC2
* O-ring	Fluororubber

* Wetted part

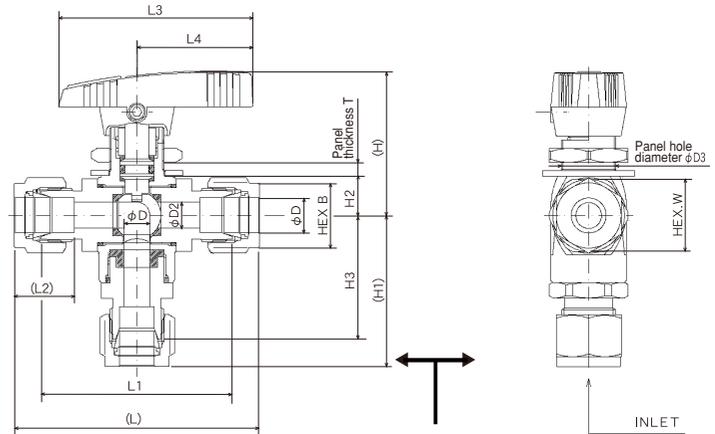
●Specifications

Max. Operating Pressure (MPa)	Fluid Temperature Range (°C)
4.90	-10~80

If you are using this valve with POWERFULLOK fittings, please refer to the Installation Guide in the POWERFULLOK brochure.

Stainless Steel 4.90 MPa POWERFULL SERIES Panel Mounting Ball Valves

POWERFULOK



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 Ensure that 3-way valves are installed in the orientation indicated by the flow direction arrow. Installing them in the reverse direction may prevent the valve from closing completely. Note that fluid media should enter from the inlet at the bottom of the valve and travel from left to right.

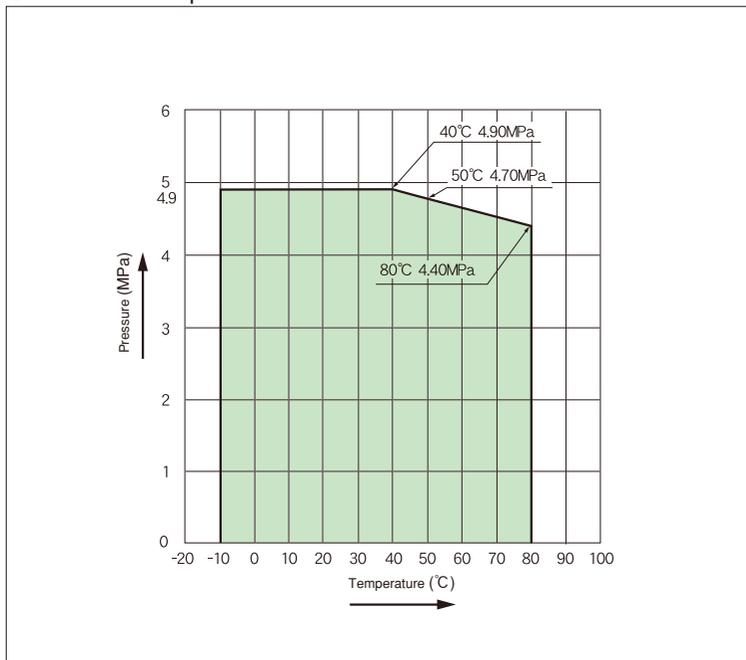
●Dimensions (mm)

Nominal dia. D	Orifice dia. D1	Hole dia. D2	Face-to-face dimension		Connecting thread		Handle length		Height when fully open			Panel mounting		Width across flats W	Panel thickness T		Cv value	Mass (approx.) kg	Part number
			L	L1	L2	B	L3	L4	H	H1	H3	H2	D3		MIN.	MAX.			
3	5	2.4	58.2	45	12.9	10	47	28	38	36.1	29.5	11	14.5	17	1	5	0.23	0.16	PUBVT-95-3
4	5	3.2	60.2	47	13.7	12	47	28	38	37.1	30.5	11	14.5	17	1	5	0.4	0.16	PUBVT-95-4
6	5	4.8	62.8	48	15.2	14	47	28	38	38.4	31	11	14.5	17	1	5	1.0	0.17	PUBVT-95-6
8	5	5	64	49	16.2	16	47	28	38	39	31.5	11	14.5	17	1	5	1.0	0.19	PUBVT-95-8
10	7.5	7.9	71.2	56	17.2	19	57	34	42	43.6	36	13	16.5	21	1	5	2.2	0.19	PUBVT-95-10
12	10	9.5	79.2	59	22.8	22	57	34	45	50.1	40	16	16.5	26	1	5	4.0	0.39	PUBVT-95-12

●Dimensions (fractional inches expressed as mm)

Nominal dia. D	Orifice dia. D1	Hole dia. D2	Face-to-face dimension		Connecting thread		Handle length		Height when fully open			Panel mounting		Width across flats W	Panel thickness T		Cv value	Mass (approx.) kg	Part number
			L	L1	L2	B	L3	L4	H	H1	H3	H2	D3		MIN.	MAX.			
3.2	5	2.7	58.2	45	12.7	10	47	28	38	36.1	29.5	11	14.5	17	1	5	0.29	0.16	PUBVT-95-3.2
6.35	5	4.8	62.8	48	15.2	14	47	28	38	38.4	31	11	14.5	17	1	5	1.0	0.17	PUBVT-95-6.35
9.52	7.5	7.1	68.8	54	16.8	17	57	34	42	42.4	35	13	16.5	21	1	5	2.2	0.19	PUBVT-95-9.52
12.7	10	10.4	79.2	59	22.8	22	57	34	45	50.1	40	16	16.5	26	1	5	4.0	0.39	PUBVT-95-12.7

●Pressure-Temperature Curve



●Materials

Part	Material
* Body	SCS 14
* End screw	SUS 316
* Seat	G-PTFE
* Ball	SUS 316
* Gland packing	G-PTFE
* Stem	SUS 316
Handle	ZDC2
* O-ring	Fluororubber

* Wetted part

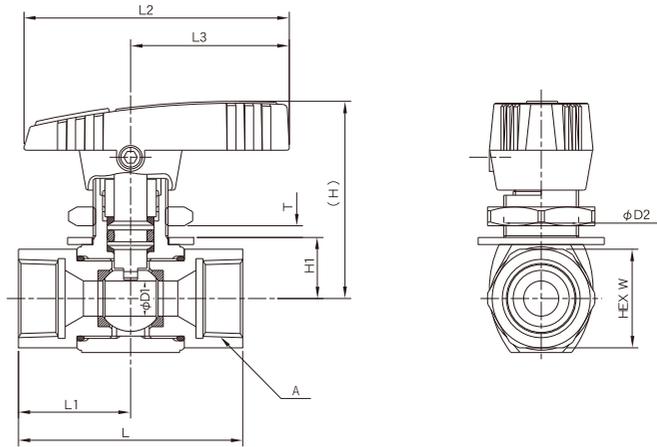
●Specifications

Max. Operating Pressure (MPa)	Fluid Temperature Range (°C)
4.90	-10~80

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Stainless Steel 4.90 MPa POWERFULL SERIES Panel Mounting Ball Valves

Threaded

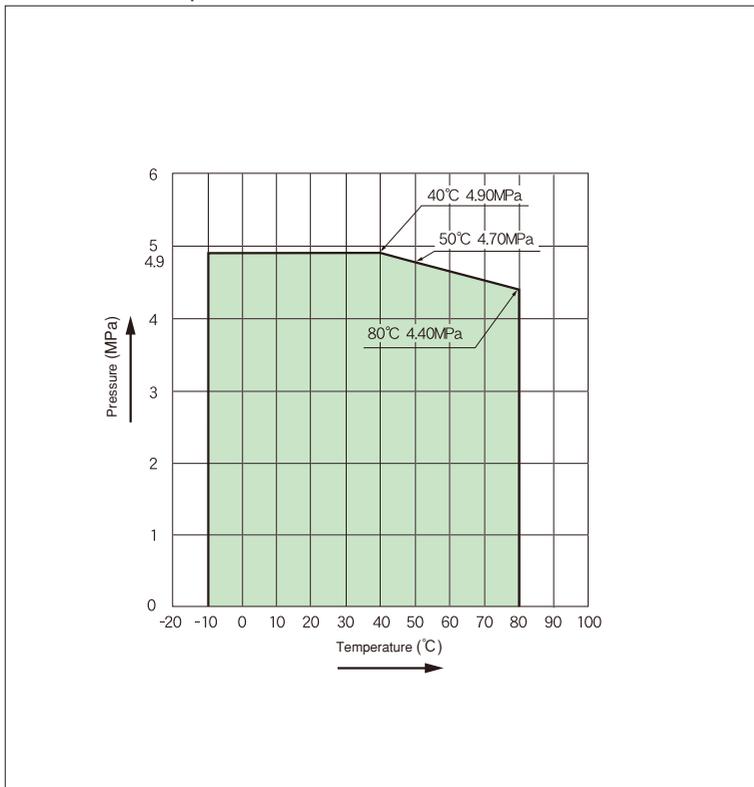


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●Dimensions (mm)

Orifice dia. D1	Face-to-face dimension		Connecting thread A	Handle length		Height when fully open H	Panel mounting		Width across flats W	Panel thickness T		Cv value	Mass (approx.) kg	Part number
	L	L1		L2	L3		H1	D2		MIN.	MAX.			
5	38	19	Rc1/8	47	28	38	11	14.5	17	1	5	1.4	0.12	PUBV-15A
5	44	22	Rc1/4	47	28	38	11	14.5	17	1	5	1.4	0.12	PUBV-15B
7.5	48	24	Rc3/8	57	34	42	13	16.5	21	1	5	3.5	0.19	PUBV-15C
10	57	28.5	Rc1/2	57	34	45	16	16.5	26	1	5	6.5	0.26	PUBV-15D

●Pressure-Temperature Curve



●Materials

Part	Material
* Body	SCS 14
* End screw	SUS 316
* Seat	G-PTFE
* Ball	SUS 316
* Gland packing	G-PTFE
* Stem	SUS316
* Handle	ZDC2
* O-ring	Fluororubber

* Wetted part

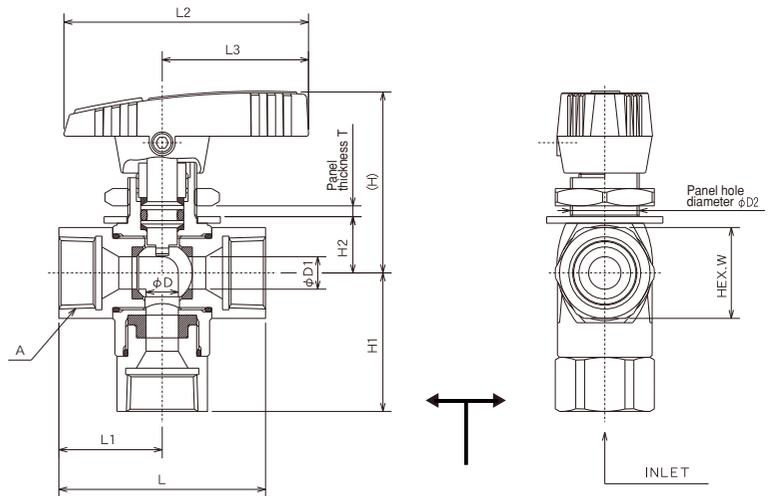
●Specifications

Max. Operating Pressure (MPa)	Fluid Temperature Range (°C)
4.90	-10~80



Stainless Steel 4.90 MPa POWERFULL SERIES Panel Mounting Ball Valves

Threaded



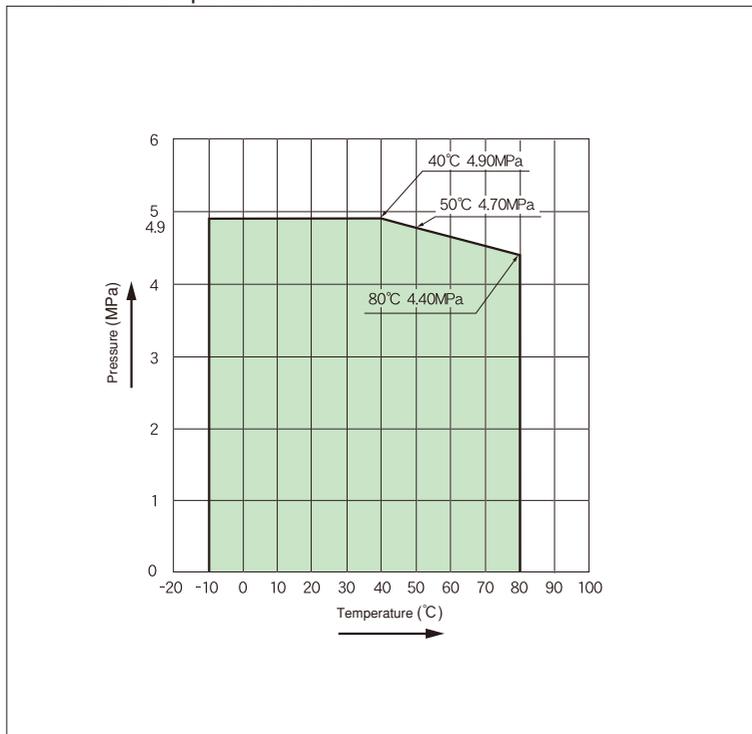
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●Dimensions (mm)

Orifice dia. D	Hole dia. D1	Face-to-face dimension		Connecting thread A	Handle length		Height when fully open		Panel mounting		Width across flats W	Panel thickness T		Cv value	Mass (approx.) kg	Part number
		L	L1		L2	L3	H	H1	H2	D2		MIN.	MAX.			
5	5	38	19	Rc1/8	47	28	38	26	11	14.5	17	1	5	1.0	0.15	PUBVT-15A
5	5	44	22	Rc1/4	47	28	38	29	11	14.5	17	1	5	1.0	0.15	PUBVT-15B
7.5	7.5	48	24	Rc3/8	57	34	42	32	13	16.5	21	1	5	2.2	0.22	PUBVT-15C
10	10	57	28.5	Rc1/2	57	34	45	39	16	16.5	26	1	5	4.0	0.33	PUBVT-15D

●Pressure-Temperature Curve



●Materials

Part	Material
* Body	SCS 14
* End screw	SUS 316
* Seat	G-PTFE
* Ball	SUS 316
* Gland packing	G-PTFE
* Stem	SUS316
* Handle	ZDC2
* O-ring	Fluororubber

* Wetted part

●Specifications

Max. Operating Pressure (MPa)	Fluid Temperature Range (°C)
4.90	-10~80



Fujikin®



Fujikin® Carp® Group



The Year 2005
The 1st Monozukuri (manufacturing)
Nippon Grand Awards
: Excellence Prize

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