

Point-of-use valves



Point-of-use valves

Features and benefits

- Designed to promote drainage, eliminate dead-legs and process steam stagnation
- Provide a port to allow steam or material to be purged rather than trapped
- Integrated elbows for connection to piping loops
- Minimal L/D ratio enables easy cleaning
- Flush-mounted to the tank, no dead legs or dead spaces
- Easy to clean and self-draining by design - can be CIP/SIP to eliminate caking



Performance

Point-of-use valve valve flow rates		
Outlet Size	Cv at 1 psi (0.07 bar)	
(inches)	GPM	LPM
0.50	2.7	10.2
0.75	10.6	40
1.00	15.8	59.8
1.50	48	180
2.00	72	272

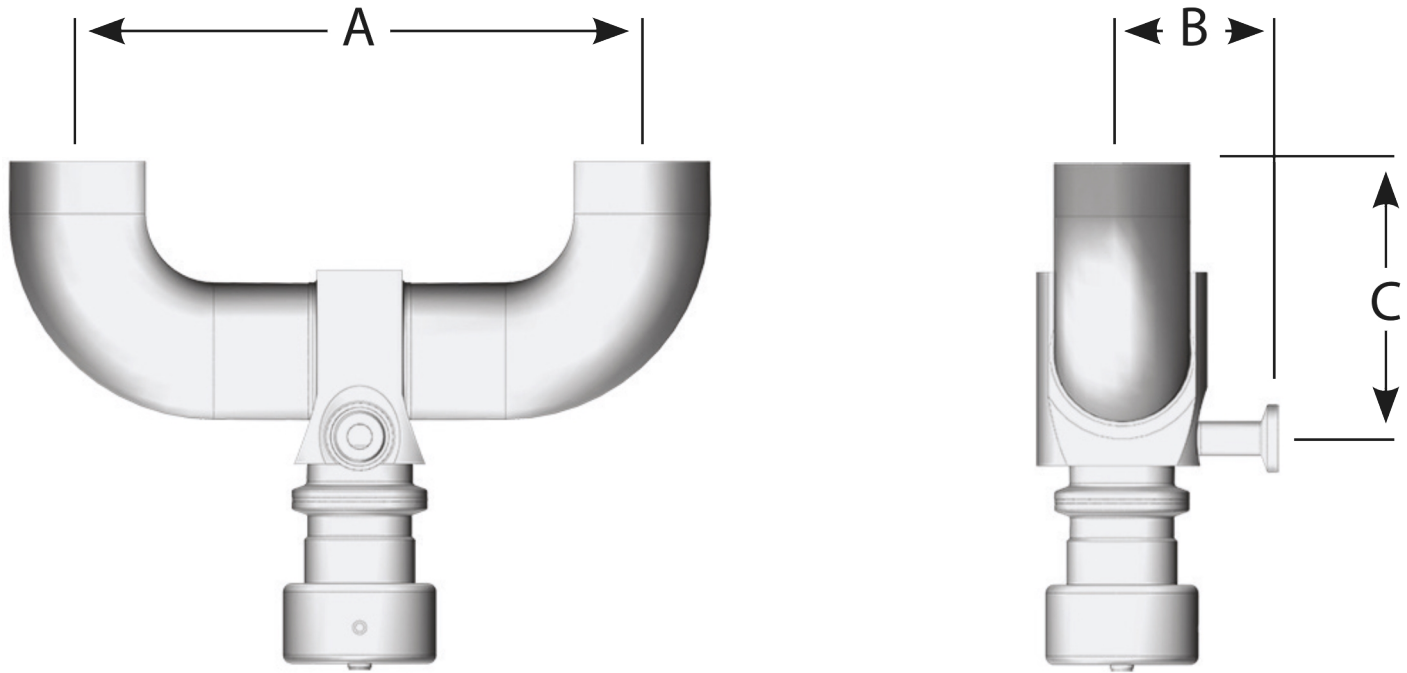
Technical specifications

	Point-of-use valves
Mounting type	Flush
Flow rate	10.2 - 272 l/m
Flow rate	2.7 - 72 USGPM
Sizes	0.5", 0.75", 1.0", 1.5", 2.0"
Outlet connections	Buttweld, Sanitary flange
Max. operating pressure	250 psi (17 bar)
Operating temperature	-60 °F to 350 °F (-51 °C to 177 °C)
Compatible actuators	Compact pneumatic, Fail closed, Fail open, Manual
Compatible diaphragms	EPDM, PTFE, Silicone, Silicone plus, Viton
Surface finish options	Electropolished, Max 10 micro-inch Ra (0.25 µm Ra), Max 15 micro-inch Ra (0.375 µm Ra), Max 20 micro-inch Ra (0.5 µm Ra)
Certification and compliance	ISO 9001
Standards	ASME BPE, CE-PED
Weight	3.33 - 37.43 lbs (1.5 - 17 kg)

Materials of construction

	Point-of-use valves
Material	Hastelloy C22, Hastelloy C276, Stainless steel 316L, Stainless steel AL-6XN

Point-of-use valves dimensions



Center to Center Dimension (A)																
Line Size (BW)	0.50		0.75		1.00		1.50		2.00		2.50		3.00		4.00	
Outlet Size (Clamp)	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
0.50	195.8	7.71	195.8	7.71	195.8	7.71	223.5	8.80	279.4	11.00	355.6	14.00	393.7	15.50	482.6	19.00
0.75			215.9	8.50	215.9	8.50	254.0	10.00	304.8	12.00	355.6	14.00	393.7	15.50	482.6	19.00
1.00					215.9	8.50	254.0	10.00	304.8	12.00	355.6	14.00	393.7	15.50	482.6	19.00
1.50							303.3	11.94	317.5	12.50	355.6	14.00	406.4	16.00	508.0	20.00
2.00									349.3	13.75	387.4	15.25	406.4	16.00	508.0	20.00
Center to Face Dimension (B)																
Line Size (BW)	0.50		0.75		1.00		1.50		2.00		2.50		3.00		4.00	
Outlet Size (Clamp)	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
0.50	52.8	2.08	52.8	2.08	52.8	2.08	52.8	2.08	57.9	2.28	64.3	2.53	64.3	2.53	64.3	2.53
0.75			64.3	2.53	64.3	2.53	64.3	2.53	64.3	2.53	70.6	2.78	70.6	2.78	64.3	2.53
1.00					64.3	2.53	64.3	2.53	64.3	2.53	70.6	2.78	70.6	2.78	64.3	2.53
1.50							85.1	3.35	85.1	3.35	85.1	3.35	85.1	3.35	82.6	3.25
2.00									82.6	3.25	82.6	3.25	82.6	3.25	82.6	3.25
Center to Face Dimension (C)																
Line Size (BW)	0.50		0.75		1.00		1.50		2.00		2.50		3.00		4.00	
Outlet Size (Clamp)	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
0.50	89.7	3.53	96.0	3.78	96.0	3.78	121.2	4.77	152.1	5.99	192.5	7.58	217.9	8.58	273.6	10.77
0.75			103.1	4.06	103.1	4.06	131.8	5.19	163.6	6.44	190.5	7.50	220.7	8.69	270.3	10.64
1.00					103.1	4.06	128.8	5.07	160.5	6.32	187.2	7.37	217.7	8.57	267.2	10.52
1.50							147.6	5.81	179.3	7.06	205.0	8.07	230.1	9.06	287.0	11.30
2.00									173.0	6.81	198.6	7.82	223.8	8.81	280.7	11.05

All Process Line and Outlet sizes are in inches

Weights

Weights																
Line Size (BW)	0.50		0.75		1.00		1.50		2.00		2.50		3.00		4.00	
Outlet Size (Clamp)	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb
0.50	1.5	3.33	1.8	3.89	2.1	4.63	2.0	4.53	3.0	6.59	4.1	8.99	6.3	13.75	8.6	18.93
0.75			2.8	6.09	2.1	4.63	2.8	6.13	3.8	8.29	4.1	8.99	6.3	13.75	8.6	18.93
1.00					3.9	8.58	3.8	8.28	4.7	10.44	5.1	11.14	7.3	16.00	9.6	21.08
1.50							8.8	19.43	9.7	21.29	10.0	22.09	10.4	22.95	17.0	37.43
2.00									9.5	20.99	9.9	21.79	10.4	22.85	17.0	37.43

All weights are with manual actuator.

All Process Line and Outlet sizes are in inches.

Product codes

Size	Model code	Part description
1	UP10-103-1	Radial valve 1" Point-of-use EN 1.4435 body/EN1.4404 fittings Spool 1" Weld-end 1" 90°weld-end outlet Flush diaphragm & 0.5" weld-end port 2" from centerline Flush diaphragm @ 270 20 micro-inch Ra surface finish electropolished and passivated includes body/actuator clamp
1.5	UP15-103-1	Radial valve 1" Point-of-use EN 1.4435 body/EN1.4404 fittings Spool 1" Weld-end 1" 90°weld-end outlet Flush diaphragm & 0.5" weld-end port 2" from centerline Flush diaphragm @ 270 20 micro-inch Ra surface finish electropolished and passivated includes body/actuator clamp
2	UP20-102-1	Radial valve 2" Point-of-use EN 1.4435 body/EN1.4404 fitting(s) 2" X 90° Weld-end Spool 2" clamp-end outlet 4.5" from centerline Flush diaphragm 20 micro-inch Ra surface finish electropolished and passivated includes body/actuator clamp

Note: for additional configurations, please contact Watson-Marlow.

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09 July 2026