

Weirless Radial diaphragm™ in-line valve

FEATURES AND BENEFITS

- Radial diaphragm – eliminates entrapment for easy cleaning
- Fully drainable within a 180 degree range of installation angles
- Simple Tri-Clamp® assembly makes maintenance up to 80% faster compared to a weir type valve
- Integrated travel stops
- No readjustment or retightening



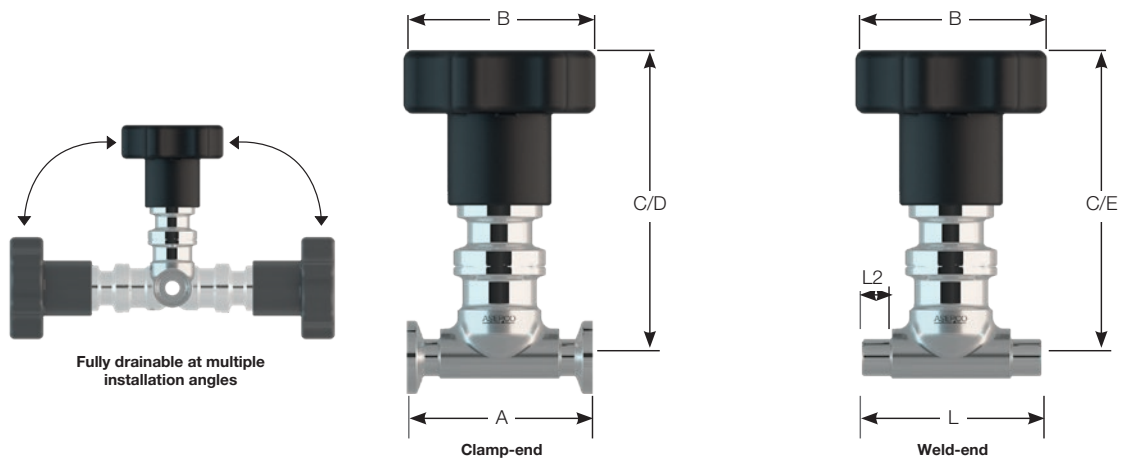
TECHNICAL DATA

Valve body			
Material	316L (forged) Inquire for AL-6XN, Nickel Alloys options		
Surface finish	Inner: Max. 15 µin R _a (0.38 µm), electropolished (other finish options on request) Outer: Max. 32 µin R _a (0.8 µm), electropolished		
Sizes	ASME BPE: 0.5", 0.75", 1", and 1.5". DIN 11866, DIN 32676 Series A: DN 10, DN 15		
Available connections	Hygienic clamp, weld-end		
Operating pressure	0 to 10 barg (0 to 150 psig)		
Maximum Operating Temperature *	135°C (275°F)		
Marking	Each valve is serialised and marked for full material traceability		
ISO	All product and procedures are governed by our ISO 9001 Quality Assurance Program		
Standard	ASME BPE, ASME BPVC, CE-PED		
Actuator			
Types	Manual, pneumatic (fail closed)		
Material	UNS 30400 base with Nylon top Autoclavable For applications requiring ATEX certification, contact your local Watson-Marlow representative		
Diaphragm			
Materials	EPDM	EPDM Plus	Silicone
Temperature Range	-35 to 135°C (-30 to 275°F)	-35 to 135°C (-30 to 275°F)	-51 to 135°C (-60 to 275°F)
Standard	USP <87>, USP <88> Class VI FDA 21 CFR 177.2600		
Parylene Treatment	N/A	•	N/A

WEIGHTS

Size	Connection	Valve body weight		Assembly weight				
		lbs	kg	Weight with manual actuator (lbs)	Weight with manual actuator (kg)	Weight with pneumatic actuator (lbs)	Weight with pneumatic actuator (kg)	
ASME BPE	0.5"	Clamp-end	0.30	0.13	1.5	0.67	1.7	0.76
	0.5"	Weld-end	0.27	0.12	1.4	0.65	1.6	0.75
	0.75"	Clamp-end	0.64	0.29	2.1	0.97	3.1	1.41
	0.75"	Weld-end	0.62	0.28	2.1	0.96	3.1	1.40
	1"	Clamp-end	1.36	0.62	3.5	1.58	4.4	2.02
	1"	Weld-end	1.13	0.51	3.2	1.47	4.2	1.91
	1.5"	Clamp-end	2.53	1.15	7.2	3.25	9.3	4.22
	1.5"	Weld-end	2.43	1.10	7.1	3.20	9.2	4.17
DIN 11866 DIN 32676 Series A	DN 10 A	Clamp-end	0.47	0.21	1.6	0.75	1.8	0.84
	DN 10 A	Weld-end	0.27	0.12	1.4	0.65	1.6	0.75
	DN 15 A	Clamp-end	0.80	0.36	2.3	1.04	3.3	1.48
	DN 15 A	Weld-end	0.61	0.28	2.1	0.96	3.1	1.40

DIMENSIONS



Dimensions								
Size	A mm (inch)	L mm (inch)	L2 mm (inch)	B - with manual actuator mm (inch)	B - with pneumatic actuator mm (inch)	C - with manual actuator mm (inch)	D - with pneumatic actuator mm (inch)	E - with pneumatic actuator mm (inch)
ASME BPE	0.5"	63.5 (2.5)	81.0 (3.19)	20.1 (0.79)	66.4 (2.6)	45.7 (1.8)	100.5 (4.0)	149.9 (5.9)
	0.75"	101.6 (4.0)	104.8 (4.13)	20.4 (0.80)	66.4 (2.6)	66.4 (2.6)	100.5 (4.0)	170.0 (6.7)
	1"	114.3 (4.5)	114.3 (4.5)	20.7 (0.81)	66.4 (2.6)	85.8 (3.4)	119.7 (4.7)	189.4 (7.5)
	1.5"	139.7 (5.5)	139.7 (5.5)	22.2 (0.87)	66.4 (2.6)	105.0 (4.1)	126.0 (5.0)	207.5 (8.2)
DIN 11866 DIN 32676 Series A	DN 10 A	108.0 (4.25)	108.0 (4.25)	33.6 (1.32)	66.4 (2.6)	45.7 (1.8)	101.0 (4.0)	150.0 (5.9)
	DN 15 A	108.0 (4.25)	108.0 (4.25)	21.9 (0.86)	66.4 (2.6)	85.8 (3.4)	101.0 (4.0)	170.5 (6.7)

C, D and E dimension shown when valve is in closed position
All dimensions are for reference only

PERFORMANCE

Performance			
		Cv (gpm)	Kv (m ³ /h) Kv = .865Cv
ASME BPE	0.5"	2.94	2.54
	0.75"	8.00	6.92
	1"	16.96	14.67
	1.5"	43.78	37.87
DIN 11866 DIN 32676 Series A	DN 10 A	2.94	2.54
	DN 15 A	8.00	6.92

ORDERING INFORMATION

<p>Type</p> <p>FC*: Compact Valve body with Clamp-end IC: Valve Body with Clamp-end FW*: Compact Valve body with Weld-end IW: Valve body with Weld-end *Only used with 0.5" and DN 10 A valves</p>		<p>Surface Finish</p> <p>R_a 15 µin (0,38 µm)</p>	<p>Example</p> <p>IC08-1100-2: 0.75" Weirless inline valve, Clamp-end inlet and Clamp-end outlet R_a 15 µin (0.38 µm)</p>
<p>Size</p> <p>05: 0.5" 08: 0.75" 10: 1" 17: 1.5" 05: DN 10 A 08: DN 15 A</p>	<p>Sequential Number*</p> <p>Straight clamp-end inlet and straight clamp-end outlet *Varies per valve body shape 1100 - ASME BPE 2100 - DIN 11866, DIN 32676 Series A</p>		

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