

Divert valves

Divert valves

Features and benefits

- Accommodates our contamination-free clamp assembly technology making the valves easy to fit in place, inspect and maintain
- Designed to allow division and blending of up to three lines in a single valve body
- Flush mount design
- Simple clamp assembly
- Change diaphragms in seconds
- Minimizes distances between each valve seat (fewer and shorter dead legs)
- Self-draining with full CIP/SIP capability
- Available valve sizes: 0.5", 1.0", 2.0", 2.5", and 3.0"



Performance

Divert valve flow rates		
Size	Cv at 1 psi (0.07 bar)	
inches	GPM	LPM
0.50	4.3	16.3
1.00	15.8	59.8
1.50 (True)	48	182
1.50	56	212
2.00	72	273
2.50	90	341
3.00	170	643

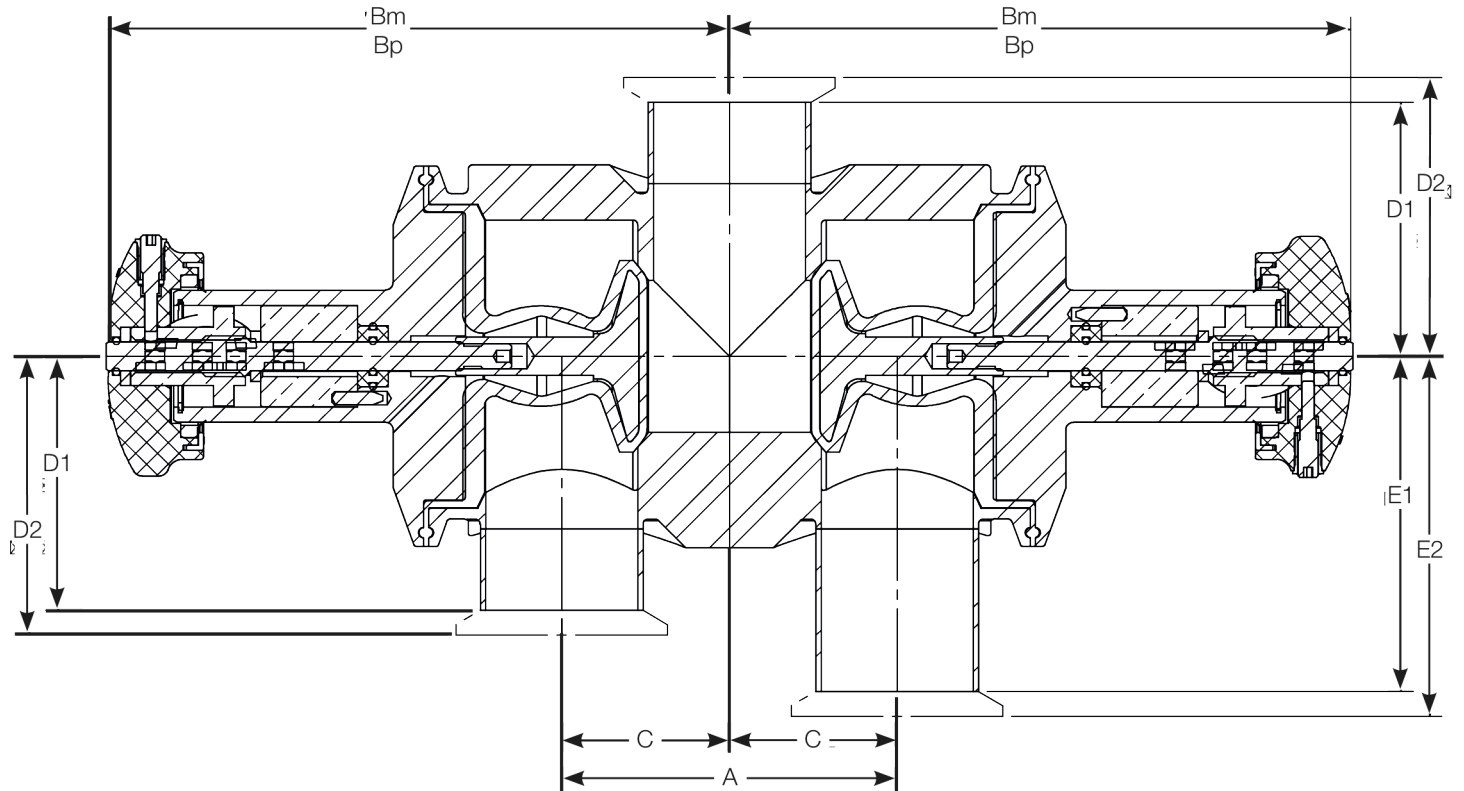
Technical specifications

	Divert valves
Mounting type	Flush
Flow rate	16.3 - 643 l/m
Flow rate	4.3 - 170 USGPM
Sizes	0.5", 1.0", 1.5", 2.0", 2.5", 3.0"
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	Autoclavable manual, Compact, Normally closed pneumatic, Normally open pneumatic
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	1.9 - 37.5 lbs (0.9 - 17 kg)

Materials of construction

	Divert valves
Material	Hastelloy C22, Hastelloy C276, Polypropylene, Stainless steel 316L, Stainless steel AL-6XN

Divert valves dimensions



Size	A		Bm - with Manual Actuator		C		Bp - with Pneumatic Actuator		D1 Weld-End Fitting		D2 Clamp-End Fitting		E1 Weld-End Fitting		E2 Clamp-End Fitting	
inches	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
0.50	39	1.55	105	4.13	124	0.77	20	4.90	50	1.96	53	2.08	75	2.96	78	3.08
1.00	54	2.13	128	5.05	169	1.06	27	6.66	61	2.40	64	2.53	86	3.40	89	3.53
1.50 (True)	80	3.13	142	5.60	188	1.56	40	7.41	68	2.67	71	2.79	93	3.67	96	3.79
1.50	105	4.13	188	7.39	210	2.06	52	8.25	82	3.22	85	3.35	107	4.22	110	4.35
2.00	188	7.40	194	7.64	216	3.70	94	8.50	80	3.13	83	3.25	105	4.13	108	4.25
2.50	163	6.41	230	9.07	290	3.25	83	11.42	91	3.59	94	3.71	117	4.59	120	4.71
3.00	152	6.00	230	9.07	290	3.00	76	11.42	91	3.59	94	3.71	117	4.59	120	4.71

Weights

Size	Valve Body		Total Weight with Pneumatic Actuator		Total Weight with Manual Actuator	
inches	Kg	lb	Kg	lb	Kg	lb
0.50	0.9	1.9	1.7	3.6	1.6	3.8
1.00	2.3	5.0	4.2	10.0	4.5	9.2
1.50 (True)	4.3	9.5	5.9	14.5	6.6	13.1
1.50	7.9	17.5	10.9	25.9	11.7	24.0
2.00	8.4	18.5	11.3	36.9	16.7	25.0
2.50	17.0	37.5	20.2	61.2	27.7	44.5
3.00	16.8	37	19.9	60.7	27.5	44

Model Code	Part Description
BC05-125-1	Weirless valve 0.5", Block & Bleed, 316L Clamp-end inlet, Clamp-end outlet, 2.75" Face-to-Face & 0.5" bleed valve with clamp-end outlet, 20 micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp
BC08-125-1	Weirless valve 0.75", Block & Bleed, 316L Clamp-end inlet, Clamp-end outlet, 3.75" Face-to-Face & 0.5" bleed valve with clamp-end outlet, 20 micro-inch Ra surface finish, electropolished and passivated, includes body/actuator clamp
BC08-126-1	Weirless valve 0.75", Block & Bleed, 316L Clamp-end inlet, Clamp-end outlet, 3.75" Face-to-Face & 0.75" bleed valve with clamp-end outlet, 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