

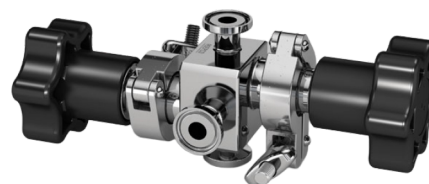
Block-and-bleed valves



Block-and-bleed valves

Features and benefits

- Easy to assemble and inspect
- Eliminates sources of contamination—reducing cleaning time
- Clean, self-draining design
- Block body design eliminates dead leg area
- Patented radial diaphragm, eliminates entrapment for easy cleaning
- Features a broad install angle with full drainability in multiple orientations



Block-and-bleed valves performance

Flow rates		
Size (inches)	Cv at 1 psi (0.07 bar)	
	LPM	USGPM
0.5 x 0.5	17.8	4.70
0.75 x 0.5	36	9.51
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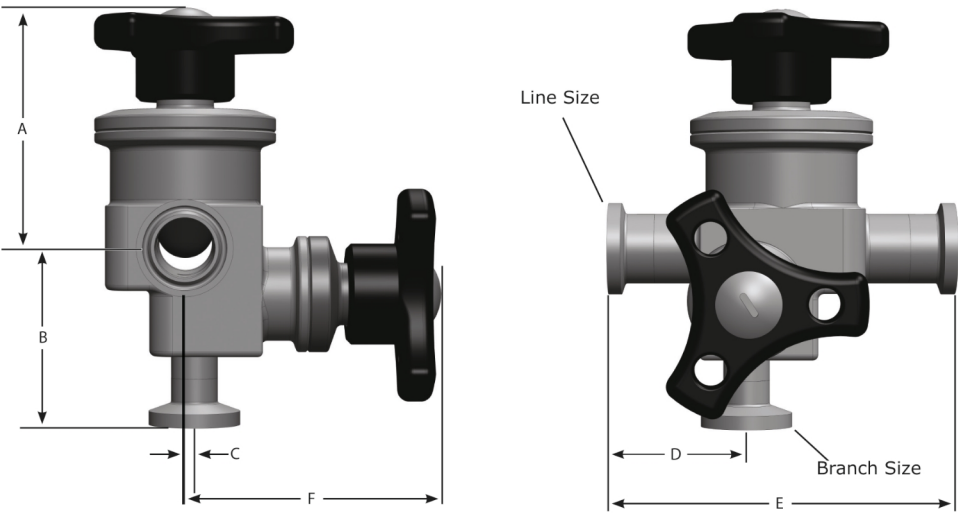
Technical specifications

	Block-and-bleed valves
Mounting type	Clamp, In-line
Flow rate	17.8 - 36 l/m
Flow rate	4.7 - 9.5 USGPM
Mounting sizes	0.5 in, 0.75 in, 1.0 in, 1.5 in
Inlet/outlet Connections	Hygienic clamp, Tube end
Max. operating pressure	10 bar (150 psi)
Operating temperature	-35 °C to 135 °C (-30 °F to 275 °F)
Compatible actuators	Fail closed, Fail open, Manual, Pneumatic
Compatible diaphragms	EPDM
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	0.68 - 2.5 kg (1.5 - 5.6 lbs)

Materials of construction

	Block-and-bleed valves
Material	Hastelloy, Stainless steel 316L, Stainless steel AL-6XN

Block-and-bleed valves dimensions



Block and bleed valve dimensions												
Line x Branch Size (inches)	A		B		C		D		E		F	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
0.5 x 0.5	110.5	4.35	43.2	1.70	0.0	0.00	31.5	1.24	69.9	2.75	67.3	2.65
0.75 x 0.5	114.8	4.52	48.8	1.92	2.5	0.10	38.1	1.50	95.2	3.75	69.9	2.75
0.75 x 0.75	133.4	5.25	67.3	2.65	0.0	0.00	41.4	1.63	94.0	3.70	65.5	2.58

Weights

Block and bleed valve weights				
Size (inches)	Valve Body		Total Weight with Manual Actuator	
	kg	lb	kg	lb
0.5 x 0.5	0.68	1.50	1.20	2.60
0.75 x 0.5	1.00	2.2	2.80	6.20
0.75 x 0.75	2.50	5.60	4.20	9.30

Product codes

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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