

ASEPCO Weirless Radial Diaphragm™ block and bleed valve



Designed for critical aseptic processing applications

ASEPCO Weirless Radial diaphragm valves are specifically designed for applications where leakage, dead legs, and cross-contamination are unacceptable. We've applied our contamination-free, radial diaphragm technology and easy-to-use clamp assembly to an inline valve configuration, creating a reliable valve that is easy to assemble and inspect.

Features

Block body design eliminates dead leg area
Radial diaphragm
Clean, self-draining design
Simple clamp assembly
Integral travel stops
Patented shoulder seal
Isolates process fluids absolutely
Easy to seal and inspect
Up to 80% reduction in maintenance costs
Reduced down-time when changing diaphragms
Never needs re-tightening or adjustment

Specifications

Valves

Material	316L, AL6XN, Hastelloy Machined from solid, hot-rolled, bar stock or forgings
Surface Finish	Max 20 micro-inch Ra (0.5 μ m Ra), Electropolished Max 15 micro-inch Ra (0.375 μ m Ra), Electropolished Max 10 micro-inch Ra (0.25 μ m Ra), Electropolished
Sizes	1/2 Compact, 3/4, 1, and 1.5 inch
Available Connections	Hygienic clamp, tube-end
Handle Colors	Standard: 1/2, 3/4, 1, and 1.5 inch black On request: blue, red, yellow, amber, green, purple
Maximum Pressure	150 psi
Maximum Temperature	135°C/275°F
Marking	Each valve is serialized and marked for full material traceability
ISO	All product and procedures are governed by our ISO Quality Assurance Program
Standards	BPE, CE-PED, ASME

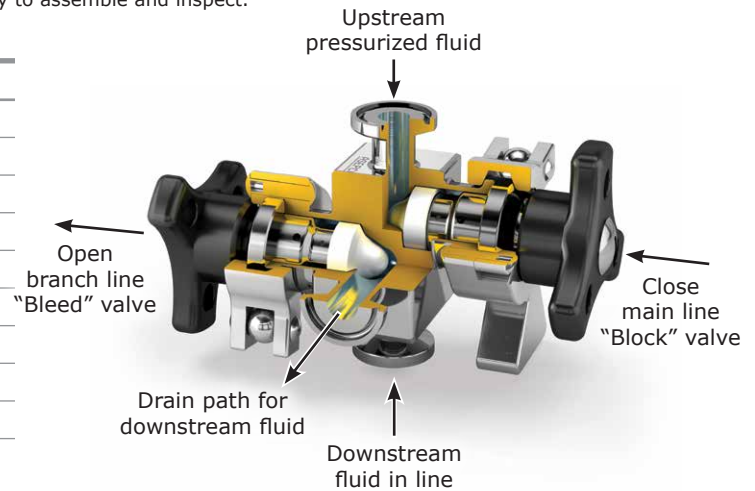
Actuators

Types	Manual or pneumatic Fail open or closed
Material	Base is 304 stainless, manual handle is PES, pneumatic housing is PPS
Size	1/2, 3/4, 1, and 1.5 inch
Operating Air Pressure	100psi max for Pneumatic Actuators
Seals	PTFE bushings and O-rings
Fitting	1/8" NPT air connection (for pneumatic)
Possible Instrumentation	Switched With or without solenoids With or without DeviceNet cards

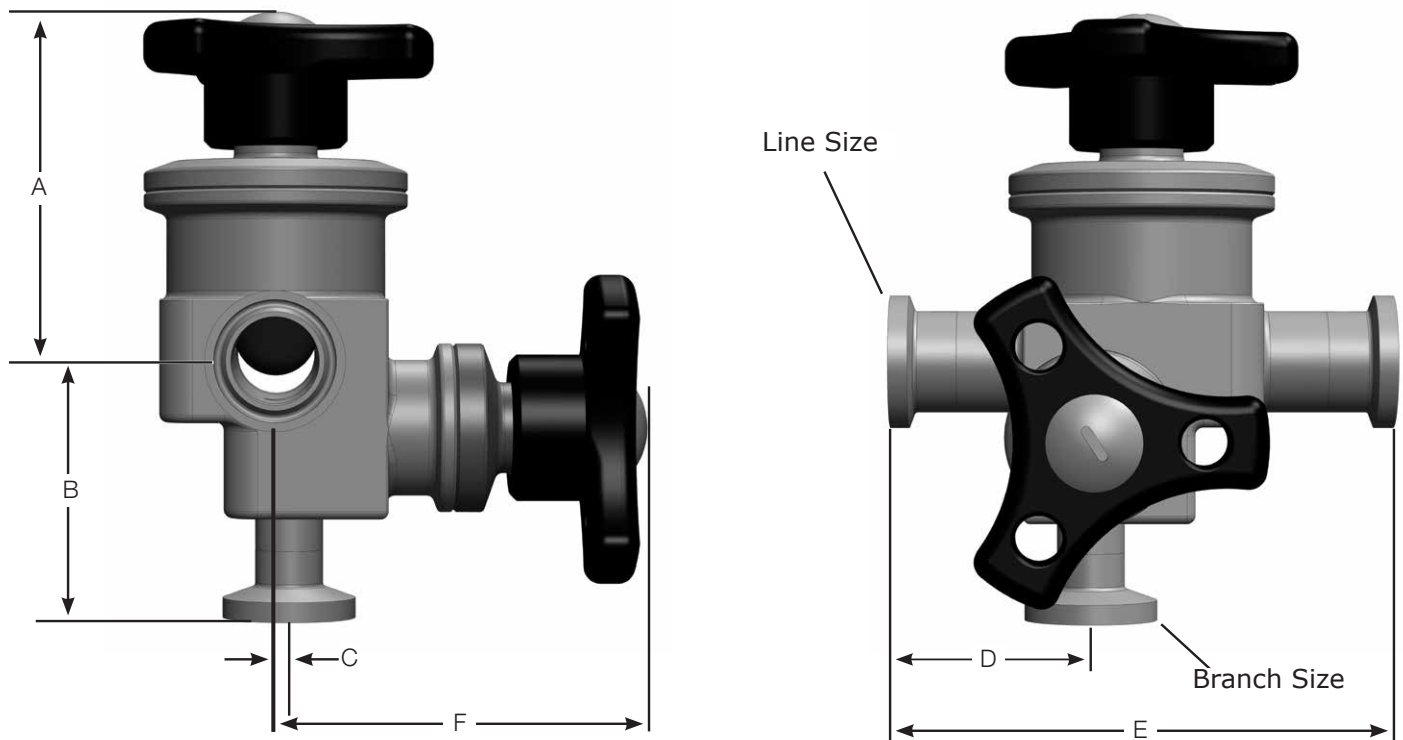
Diaphragms

Materials	EPDM	EPDM Plus
Temperature Range	-30 to 275°F	-30 to 275°F
Class	USP Class VI, 21 CFR 177.2600	USP Class VI, 21 CFR 177.2600
Parylene Treatment	-	✓

Please contact our Customer Service Department for any non-standard valve requirement (800) 882-3886.



Block and bleed valve dimensions, flow rates, and weights specifications



Block and bleed valve dimensions

Line x Branch Size	A	B	C	D	E	F
inches	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
1/2" x 1/2"	4.35 (110.5)	1.70 (43.2)	0.00 (0.0)	1.24 (31.5)	2.75 (69.9)	2.65 (67.3)
3/4" x 1/2"	4.52 (114.8)	1.92 (48.8)	0.10 (2.5)	1.50 (38.1)	3.75 (95.2)	2.75 (69.9)
3/4" x 3/4"	5.25 (133.4)	2.65 (67.3)	0.00 (0.0)	1.63 (41.4)	3.70 (94.0)	2.58 (65.5)

Block and bleed valve's main line flow rates

Size	Cv at 1 psi (0.07 bar)
inches	GPM (LPM)
1/2" x 1/2"	4.70 (17.8)
3/4" x 1/2"	9.51 (36)
3/4" x 3/4"	9.51 (36)

Block and bleed valve weights

Size	Total Weight with Manual Actuator	Total Weight with Pneumatic Actuator
inches	lb (Kg)	lb (Kg)
1/2" x 1/2"	1.50 (0.68)	2.60 (1.20)
3/4" x 1/2"	2.2 (1.00)	6.20 (2.80)
3/4" x 3/4"	5.60 (2.50)	9.30 (4.20)