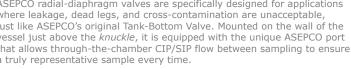
# The ASEPCO Weirless Radial-Diaphragm™ **Sample Valve**



CIP/SIP INLET PORT

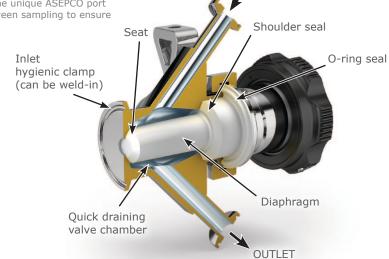
### **Designed for Critical Aseptic Processing Applications**

ASEPCO radial-diaphragm valves are specifically designed for applications where leakage, dead legs, and cross-contamination are unacceptable, just like ASEPCO's original Tank-Bottom Valve. Mounted on the wall of the vessel just above the knuckle, it is equipped with the unique ASEPCO port that allows through-the-chamber CIP/SIP flow between sampling to ensure a truly representative sample every time.



### **Features**

Through chamber CIP/SIP
Radial-diaphragm
Mounted on wall of vessel just above knuckle
Simple clamp assembly
Change diaphragms in seconds
Integral travel stops
Patented shoulder seal
Behind the seat flow path



## **Specifications**

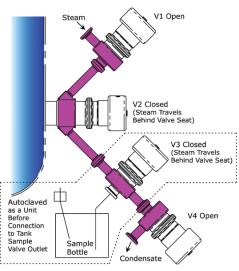
Specifications							
Valves							
Material	316L, AL6XN, Hastelloy Machined from solid, hot-rolled, bar stock						
Surface Finish	Max. 20 micro-inch Ra (0.5 μm Ra), electropolished Max. 15 micro-inch Ra (0.375 μm Ra), electropolished Max. 10 micro-inch Ra (0.25 μm Ra), electropolished						
Mounting Sizes	Weld-in or 1-inch to 3-inch clamp						
Inlet Size	0.5 inch						
CIP/SIP Port/Outlet Connections	Standard: 0.5-inch hygienic clamp, 0.5-inch tube end (others available)						
Maximum Pressure	[Valve body pressure only] ASME vessels: 250 psi (17 bar), PED vessels: 175 psi (12 bar)						
Maximum Temperature	Varies from 135°C/275°F to 260°C/500°F depending on diaphragm material						
Marking	Each valve is serialized and marked for full material traceability						
ISO	All product an	All product and procedures are governed by our ISO Quality Assurance Program					
Standards	BPE, CE-PED, ASME						
Actuators							
Types		Manual or compact pneumatic Fail open or closed					
Material	304 stainless steel housing, can be made in 316L						
Size	0.5 inch						
Operating Air Pressure	100 psi max. for pneumatic actuators						
Seals	Teflon bushings and O-rings						
Fitting	1/8-inch NPT air connection (for pneumatic)						
Possible Instrumentation	Switched • With or without solenoids • With or without DeviceNet cards						
Diaphragms							
Materials	Silicone	Silicone Plus	EPDM	EPDM Plus	Viton*	PTFE*	
Temperature Range	-60 to 275°F	-60 to 275°F	-30 to 275°F	-30 to 275°F	5 to 400°F	39 to 500°F	
Pressure Range	100-150psi	100-150psi	100-150psi	100-150psi	100-150psi	40-60psi	
Parylene Treatment	_	√	_	√	_	_	
Class	All materials: U	SP Class VI, 21 C	FR 177.2600				
					* Not available	in all valvo cizoc	

\* Not available in all valve sizes

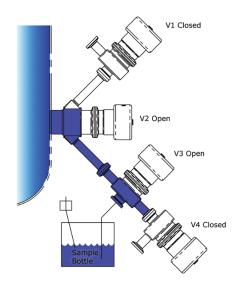
## **ASEPCO Tank Sampling**

With "behind the seat" cleaning our valve system allows contamination-free sampling as depicted in the graphics at right.

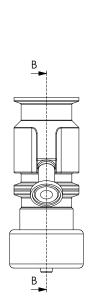
#### Decontamination Flowpath (Pre or Post Sample)

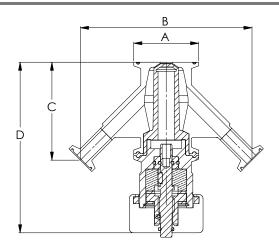


#### Sample Flowpath



## Sample Valve Dimensions, Flow Rates, and Weights Specifications





### **Sample Valve Flow Rates**

Inlet OD Size (A)	Cv at 1 psi (0.07 bar)			
inches	GPM (LPM)			
Weld-in	1.23 (4.66)			
1.50 Clamp style	1.23 (4.66)			
2.00 Clamp style	1.23 (4.66)			
3.00 Clamp style	1.23 (4.66)			

The only thing that changes is the size of the tri-clamp inlet.

#### Weights

Size	Valve Body	Total Weight with Manual Actuator	Total Weight with Pneumatic Actuator	
inches	lb (kg)	lb (kg)	lb (kg)	
Weld-in	1.50 (0.68)	4.30 (1.95)	4.00 (1.82)	
1.50 Clamp style	1.75 (0.79)	4.25 (1.93)	4.55 (2.06)	
2.00 Clamp style	2.00 (0.91)	4.50 (2.04)	4.80 (2.18)	
3.00 Clamp style	2.25 (1.02)	4.75 (2.15)	5.00 (2.27)	

### **SC/SW Sample Valve Dimensions**

Size	А	В	С	D - with Manual Actuator	D - with Pneumatic Actuator
inches	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
Weld-in	1.55 (39.37)	5.25 (133.35)	2.99 (75.95)	5.21 (132.33)	6.04 (153.42)
1.50 Clamp style	1.98 (50.29)	5.25 (133.35)	2.99 (75.95)	5.21 (132.33)	6.04 (153.42)
2.00 Clamp style	2.52 (64.01)	5.25 (133.35)	2.99 (75.95)	5.21 (132.33)	6.04 (153.42)
3.00 Clamp style	3.58 (91.00)	5.25 (133.35)	2.99 (75.95)	5.21 (132.33)	6.04 (153.42)



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