

139. ASEPTIC WEIR DIAPHRAGM VALVES

Function:

The Aseptic weir diaphragm valve is designed for critical pharmaceutical, biopharmaceutical and food applications. The unique weir design ensures self draining in both vertical and horizontal orientations. The diaphragms are available in EPDM for general aseptic applications. PTFE backed EPDM diaphragm is used for steam in place applications. The valves are provided with either butt welded end connections or triclover connections. Valves as per ASME/ BPE (for SS316L) standard are available with low ferrite (3%), and low sulphur (0.005% to 0.017%) content.



Manual valve



Pneumatic Actuator

Operating Principle:

Aseptic diaphragm valve can be either controlled by an actuator or manually operated by a handle. The handwheel is made of polyethersulphone(PES). The diaphragm(elastomer) has a weir profile which is seated in the weir profile in the valve body. The handwheel is connected to the weir diaphragm. Hence the valve opening can be controlled by operating the handwheel.

The actuator has three standard types, namely manual, pneumatically-normally closed (NC) and pneumatically-normally open (NO).

Applications:

- Pharmaceutical
- Food
- Beverages
- WFI

Specifications:

Material: Contact parts: AISI 316.

Non contact parts: AISI 304

Elastomer: Refer table

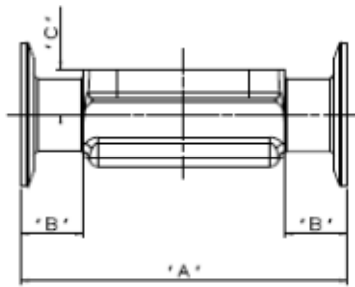
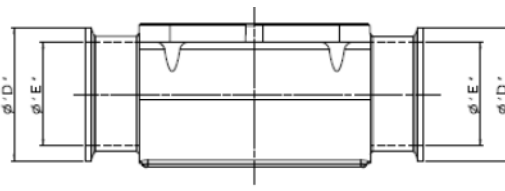
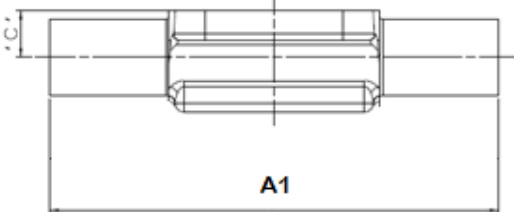
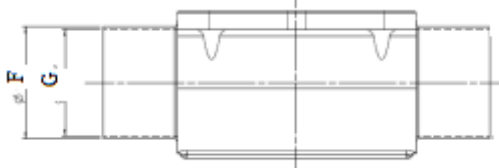
Handwheel: Polyethersulphone(PES)

Surface finish: Internal $Ra < 1 \mu$ Std. (Non ASME BPE)*

ASME BPE: $Ra < 0.5 \mu$, electropolished (ASME BPE)

Actuator: Control air pressure: 6 bar

*Standard valve bodies are made from casting. ASME BPE compliant valves are forged valves

<p>TRICLOVER</p> 								
<p>BUTT WELD</p> 								
Size	A (in mm)	B (in mm)	C (in mm)	D (in mm)	E (in mm)	A1 (in mm)	F (in mm)	G (in mm)
DN 08	64.3	14.6	8.6	25	3.05	78	6.35	4.5
DN 10	64.3	14.6	8.6	25	6.23	78	9.53	7.75
DN 15	88.9	20.7	9.4	25	9.4	130	12.7	9.4
DN 20	101.6	20.8	13	25	15.75	139.7	19.05	15.75
DN 25	114.3	22	15.7	50.4	22.1	149.4	25.4	22.1
DN 40	139.7	22.5	22	50.4	34.8	177.8	38.1	34.8
DN 50	158.8	24.6	28.4	63.9	47.5	193.5	50.8	47.5
DN 65	195.1	30.6	40.5	77.4	60.2	217	-	-
DN 80	223.6	32.8	48	90.9	72.9	254	-	-

ORDERING INFORMATION:

Ex: Part # 139-1-1-1-1-1: Aseptic Diaphragm valve-Non ASME BPE-DN 08 –EPDM diaphragm-Butt weld-Manual

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Product code	Type	Size	Diaphragm	End Connection	Actuation
	1-Non ASME BPE(Casting CF 3M)	1-DN 08	1-EPDM	1-Butt weld	1-Manual.
	2-ASME BPE (Forging AISI 316L)	2-DN 10	2-EPDM	2-Triclover	2-Pneumatic NC
		3- DN 15	backed PTFE		3-Pneumatic NO
		4- DN 20			
		5- DN 25			
		6- DN 40			
		7- DN 50			
		8- DN 65			
		9- DN 80			

GEI Process

All dimensions are in mm. unless and otherwise specified. The information contained in this brochure is for guidance only. We reserve the right to modify any material or feature without notice in advance. For further information, please, consult our application specialist.



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