



Pure-Flo® & EnviZion® High Purity Diaphragm Valves

Product Selection Guide



ITT

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Product Details

Manually Operated Topworks

								
Type	Bio-Pure	Bio-Pure COP	Bio-Tek	903	913	963	970	ZH,ZHS
Size Range								
0.25 (DN6)	•	•	•					
0.38 (DN10)	•	•	•					
0.5" (DN15)	•	•	•	•	•	•	•	•
0.75" (DN20)				•	•	•	•	•
1" (DN25)				•	•	•	•	•
1.5 (DN32/40)				•	•	•	•	•
2" (DN50)				•	•	•	•	•
2.5" (DN65)				•	•	•		
3" (DN80)				•	•	•		
4" (DN100)				•	•	•		
Material	Bonnet: 316 Stainless Steel Handwheel: Polyethersulfone (PES)	Bonnet: 316 Stainless Steel Handwheel: Polyethersulfone (PES)	Bonnet: 316 Stainless Steel Handwheel: Polyethersulfone (PES)	Cast Iron coated White Epoxy or PVDF	Bonnet and Handwheel: Stainless Steel	Bonnet and Handwheel: Glass reinforced polyethersulfone (PES)	Bonnet: 316 Stainless Steel Handwheel: Glass reinforced polyethersulfone (PES)	Bonnet: Stainless Steel Handwheel: Polyethersulfone (PES) Bonnet Cover: Polyethersulfone (PES)
Maximum Service Pressure	150 psi 10.34 bar	150 psi 10.34 bar	150 psi 10.34 bar	0.5–1": 200 psig 13.8 bar 1.5–2": 175 psig 12.1 bar 3–4": 150 psig 10.3 bar	0.5–1": 200 psig 13.8 bar 1.5–2": 175 psig 12.1 bar 3–4": 150 psig 10.3 bar	150 psig 10.34 bar	0.5–1": 200 psig 13.8 bar 1.5–2": 175 psig 12.1 bar	150 psig 10.34 bar
Maximum Service Temperature	329°F (165°C)	329°F (165°C)	329°F (165°C)	See page D-9	See page D-9	300°F (149°C)	See page D-9	See page D-9
Pressure/ Temperature Limitations	See page D-9							
Autoclavable	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Sealed Option	No	Yes	Yes	Yes	Yes	Yes	No	Yes

913 Stainless Steel Manual Bonnet

P Satisfying the most stringent biopharm processing requirements, the 913 is available with many standard and optional features. Stainless steel construction and the availability of a sealed option make the 913 bonnet an excellent choice for critical applications requiring reliability, corrosion resistance and secondary product containment.

Type: 913 & 913S

Size Range: 0.5"–4" (DN15-DN100)

Max Service Pressure:

0.5–1" (DN15-25): 200 psig (13.8 bar)

1.5–2" (DN40-50): 175 psig (12.1 bar)

3–4" (DN80-100): 150 psig (10.3 bar)

Max Service Temperature:

See Page D-9

Bonnet and Handwheel Material:

Stainless Steel

Corrosion Resistance:

Resists alcohol and most caustic washdowns.

For specific chemical resistance, consult factory.

Standard Features:

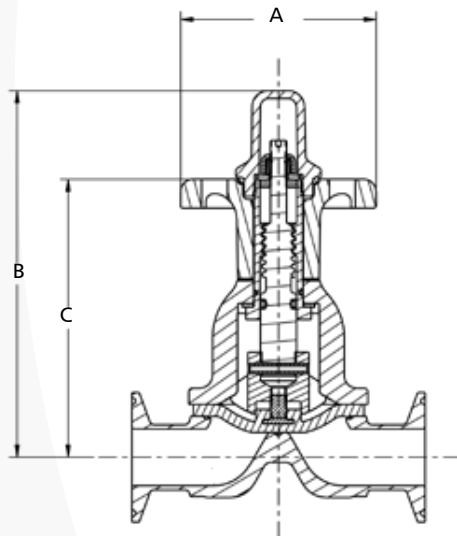
- Adjustable travel stop
- Protective cap
- Brass stem bushing
- Visual position indicator
- Permanent lubrication
- O-ring seals
- Bronze compressor
- Hygienic internals

Optional Features:

- Sealed bonnets: 913S
- Adjustable opening stop
- Lockable
- Extended handwheel

Autoclavable Options:

- 913 (Unsealed)
- 913S (Sealed)



Valve Size		A		B		C		Weight	
Inch	DN	Inch	mm	Inch	mm	Inch	mm	lb	kg
0.50	15	3.00	76,2	3.62	92,1	2.75	70,0	0.72	0,33
0.75	20	3.00	76,2	4.63	117,5	3.5	88,8	1.8	0,82
1.00	25	3.00	76,2	5.50	139,8	4.17	106,0	2.3	1,05
1.50	40	5.50	139,7	8.30	210,9	5.20	132,3	7.8	3,55
2.00	50	5.50	139,7	8.90	226,2	5.80	147,4	8.4	3,82
2.50 ¹	65	7.75	196,8	11.61	294,9	7.53	191,3	13.0	5,90
3.00	80	7.75	196,8	11.61	294,9	7.53	191,3	19.0	8,64
4.00	100	10.15	257,8	14.90	378,6	10.24	260,2	32.0	14,55

¹ The 2.5 in. (DN65) valve is a 3 in. (DN80) body and topworks with 2.5 in. (DN65) end connections.



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