

Pure-Flo Solutions Group

P²ES PBT BONNET

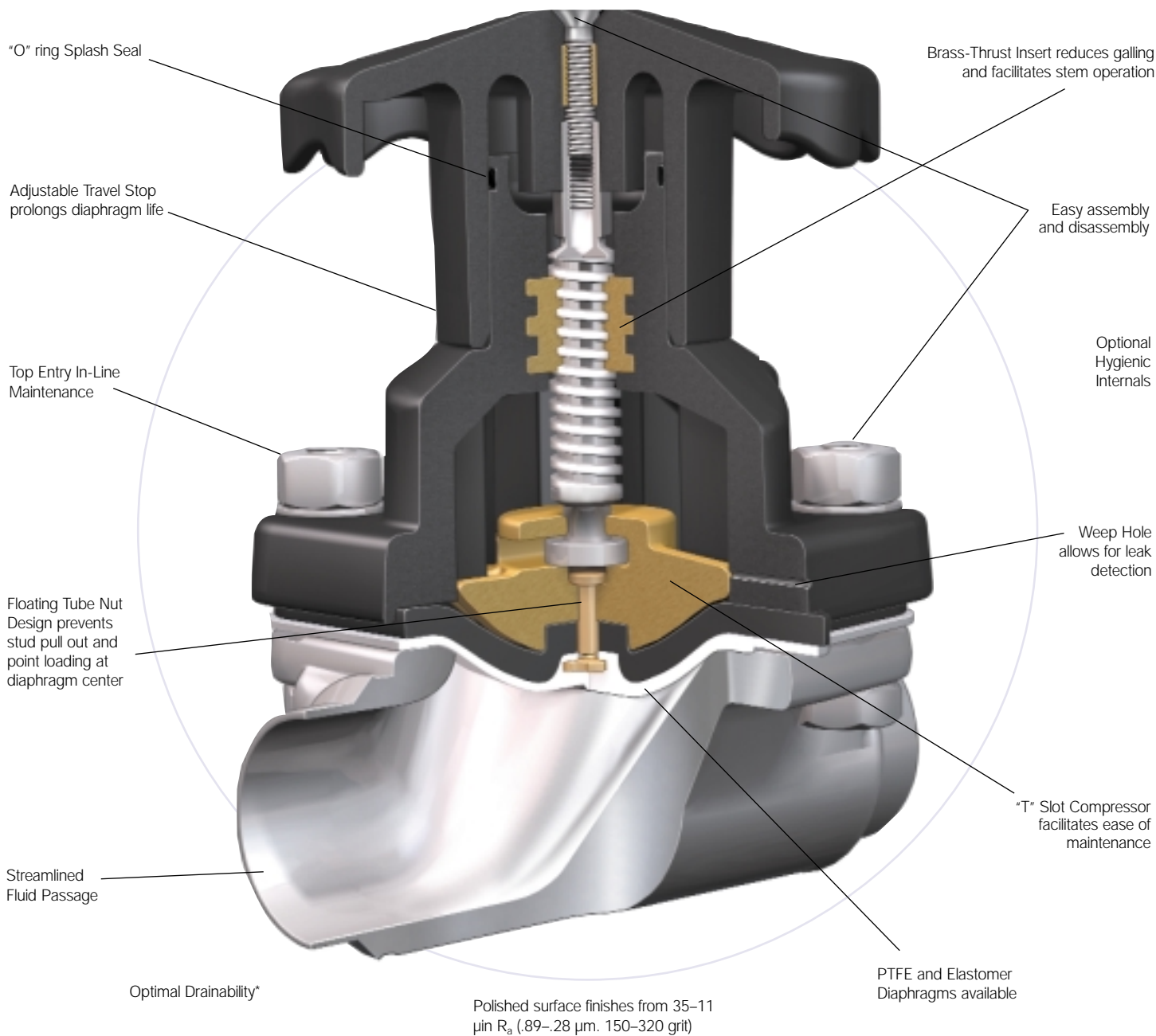


Pure-Flo



ITT Industries
Engineered for life

P²ES PBT BONNET



*Schedule 5, 10 and 40 butt-weld valves are not drainable in a horizontal line.

Interior/Exterior Electropolish Body Finishes available

Capable of withstanding standard washdown protocols, the PBT bonnet is the compact, lightweight Performance Point Solution for Pharmaceutical/Bioprocessing applications.

SIZE RANGE

1/2"–2" (DN 15 – DN50)
Specify bonnet option 950 when ordering

PRESSURE/TEMPERATURE

Maximum Service Line Pressure:
150 psig (10.34 bar)
Internal Service Line Temperature:
292°F (145°C)

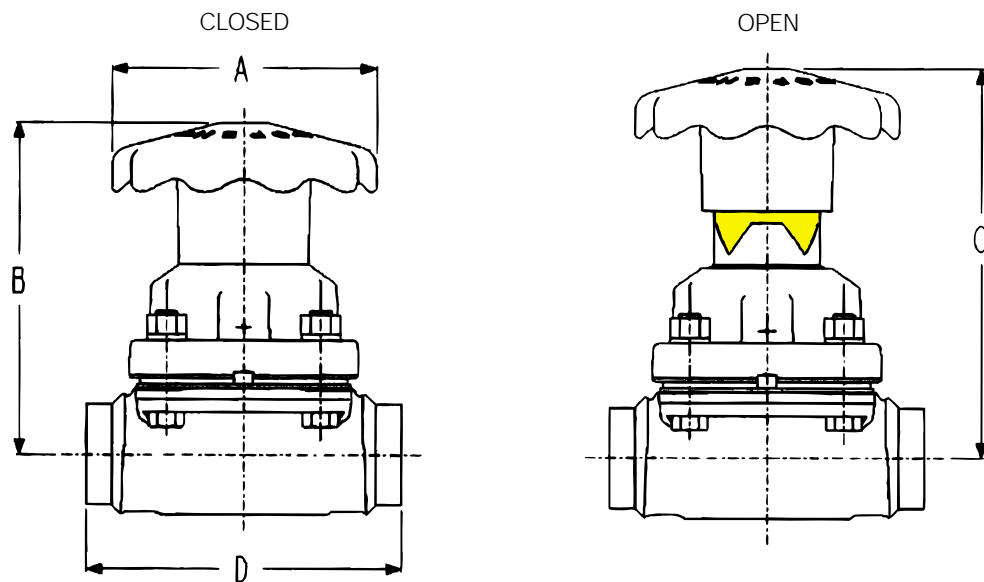
BONNET MATERIAL

- Glass Reinforced (PBT)
- FDA Compliant to 21CFR177.1660

CORROSION RESISTANCE

Resists alcohol, chloride and most caustic washdowns. For specific chemical resistance, consult factory.

FEATURES	BENEFIT
Size Range	PBT manual bonnets are available on valves sizes 0.5" through 2.0"
Adjustable Travel Stop	Prevents overclosure of the valve and prolongs diaphragm life. Travel stop arrangement is standard and allows easy adjustment with just a screwdriver. (Patent Pending)
Brass Thrust Insert	Molded into the bonnet, the brass thrust insert prevents the stem from galling and ensures smooth operation.
Diaphragm Selection	FDA compliant diaphragms include PTFE, EPDM, Black Butyl, White Butyl, Buna N and Pure Gum Rubber.
Easy Assembly and Disassembly	Entire bonnet and internals can be assembled and disassembled with a single screwdriver. Body attachment requires standard wrenches or standard socket fittings.
Floating Tube Nut Design	Prevents point loading on the diaphragm stud during closing operations and hence, reduces the chance of stud pull out.
Interchangeability	PBT topworks can be used to replace other Pure-Flo topworks.
"O" ring Splash Seal	Buna N "O" ring is standard and prevents fluids from entering into the bonnet area during washdown protocols.
Position Indicator	A bright yellow indicator is exposed as the valve opens and the handwheel rises. For the 1.0", 1.5" and 2.0" sizes, the indicator shows partial opening of a valve, as well as when full open is achieved.
Hygienic Internals	A bronze compressor is standard. Upon request, standard chrome plated carbon steel spindle can be replaced with a stainless steel spindle.
"T" Slot Compressor	The "T" Slot Compressor allows easy separation of the compressor from the spindle without any tools making diaphragm replacement quick and easy.
Top Entry	Allows the valve to be maintained without removing the body from the process system, thereby minimizing down time. Standard socket wrenches can be used in most cases.



The following table gives handwheel diameter and assembly heights from body centerline to top of bonnet assembly.

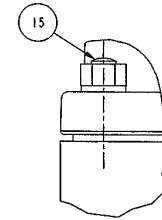
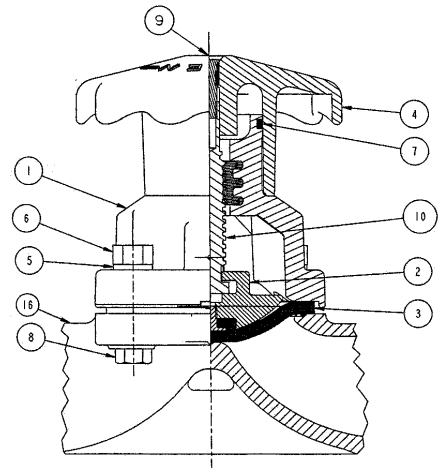
VALVE SIZE		A		B		C		D	
Inch	DN	Inch	cm	Inch	cm	Inch	cm	Inch	cm
0.50	15	2.75	6.99	3.65	9.27	3.90	9.91	3.50	8.89
0.75	20	2.75	6.99	3.89	9.88	4.27	10.85	4.00	10.16
1.00	25	2.75	6.99	4.54	11.53	5.04	12.80	4.50	11.43
1.50	40	5.25	13.33	5.86	14.88	6.67	16.94	5.50	13.97
2.00	50	5.25	13.33	6.49	16.48	7.61	19.33	6.25	15.87

MATERIALS OF CONSTRUCTION

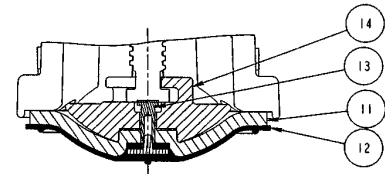
ITEM	DESCRIPTION	MATERIAL	QUANTITY
1	Bonnet	30% Glass Reinforced Polyester (PBT)*	1
2	Compressor	Bronze, ASTM B584, C84400	1
3	Standard ITT Elastomer Diaphragms	EPDM, BUNA-N	1
4	Handwheel	30% Glass Reinforced Polyester (PBT)	1
5	Washer, Plain	Stn., Stl., 18-8	4
6	Nut, Hex	Stn., Stl., 18-8	4
7	"O" Ring	Buna N (FDA)	1
8	Scr., Hex Hd,Cap	Stn., Stl., 18-8	4
9	Travel Stop Screw	Stn., Stl., 18-8	1
10	Spindle	ASTM A108, 12L14 zinc plated or Stn. Stl., ASTM A582, Type 303	1
11	Backing Cushion	EPDM	1
12	Standard ITT Plastic Diaphragms	PTFE, Grade TM or R2	1
13	Tube Nut	Brass, B-16	1
14	Compressor	Bronze, ASTM B584, C84400	1
15	Stud	Stn. Stl., 18-8 or SA-193-B8**	AR
16	Standard ITT Body	Stn. Stl., 316L	1

*Specify bonnet option 950 when ordering

**ASME Grade fasteners available only on Tank Bottom Valve



BONNET & BOLTING DETAIL
TANK BOTTOM BODY &
FABRICATIONS,



Pure-Flo Solutions Group

OFFICE LOCATIONS

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