



## PTFE LINED BALL CHECK VALVE

### Description

Flow-Tech Valves and Engineers PTFE Lined Ball Check Valve is straight type two piece design having Bolted Body Construction. Lined Ball Check Valve is manufactured in Cast ductile iron Full Port Uni-directional body design fully lined with FEP, PFA And PVDF having Flanged Ends as per 150#.

In ptfе lined ball check valves under normal flow the valves solid PTFE ball is pushed away from it's seat and fluid flows through the valve, in a backwards flow condition the ball is pushed firmly back into it's seat and prevents flow through the valve stopping process contamination etc.

The valve has a Split 2 piece design with FEP / PFA lined ductile iron body and stainless steel fasteners. Its use of FEP and PFA means that it has near universal process corrosion resistance. The valve has a full port developed especially to minimize any pressure loss through the valve.



### Salient Features

Extremely Effective in preventing backflow or back pressure in Vertical Installation.  
Full Size Port for maximum capacity.  
Practically 100% Maintenance Free due to presence of single moving part.  
Fully Lined Design to eliminate surface contact which gives maximum corrosion & contamination resistance  
PTFE Lined Ball Check Valve can be installed in either direction. (Vertically or Horizontally).  
The solid PTFE smooth finish ball assures tight sealing against reverse flow.  
The full port design offers excellent flow characteristics to minimize pressure loss.  
This minimum cracking pressure required to unseat the ball in the vertical position is 1 psi.  
Fully locked-in, unpigmented FEP / PFA uniform lining through out body and face area helps to prevent blowout or collapse of the liner under full vacuum / high pressure

### Installation :

When Installed Vertically (or up to 60° angle) check valve close automatically because of center guided ball.  
When Installed Horizontally (90° to 60°), the valve close automatically  
Full Bore when valve is opened. i.e. Low Pressure Drop condition.  
Optional Design & Components : PTFE SOLID RETAINER RING  
manufacturers of pfa lined Ball Check valve in India

### Technical Specifications

- 1) Design Standard : As per Manufacturer's Standard
- 2) Testing Standard : BS 6755 (Part 1)
- 3) Size Range : 15 mm to 200 mm
- 4) Flange : As per ANSI B16.5 / B16.42
- 5) Drilling : ASA #150 / DIN 2632/33 / BS 10 TABLE D, E, F
- 6) Face to Face : ANSI B16.10 / DIN 3202/BS EN 558-1&2
- 7) Lining Thickness : 3 to 5 mm
- 8) Body M.O.C. : Ductile Iron GGG40.3 / ASTM A395, Cast Steel ASTM A216 Gr. WCB, ASTM A351 Gr. CF8 (S.S.304), ASTM A351 Gr. CF8M (S.S.316)
- 9) Ball : Solid PTFE
- 10) Lining Material Options : PFA – ASTM D 3307, FEP – ASTM D 2116, PVDF – ASTM D 3322
- 11) Dimensions : As per BS EN 558-2 Table-6, Series 3.
- 12) Test and Inspection : Hydraulic Test : Body (Shell) 15 Kg/Cm, Back Seat Test : 02 Kg/Cm
- 13) Spark Test : 15 K.V.D.C.

