

# DPE Trunnion Ball Valves



## Product Features of DPE

- Double Piston Effect Seat design for Double Isolation and Bleed
- Bidirectional seat design seals upstream and downstream
- If a seat is damaged pressure on the body cavity activates the opposite seat to seal.

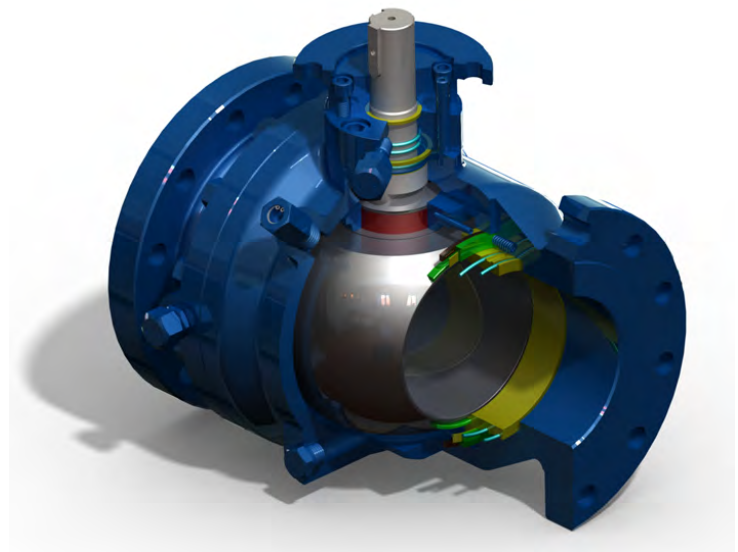
## Product Features Standard

- Blow-out Proof Stem
- Anti-static Device
- Seat Emergency Sealant Injections Fitting(s)
- Firesafe with metal to metal sealing back-up



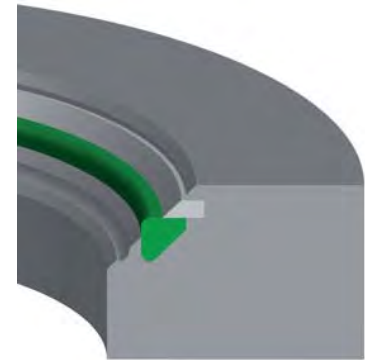
PTD3 Model 3 piece bolted body

SIZES AVAILABLE	
SIZE	ASME CLASS
2" - 48"	150
2" - 48"	300
2" - 36"	600
3" - 18"	900
2" - 12"	1500



PTD2 Model 2 piece bolted body used for:  
2" - 4" ASME Class 150  
2" ASME Class 300

BILL OF MATERIALS	
PART	MATERIAL
Body / Adaptor	A350 LF2
Stem / Ball / Seats	A350 LF2 (3mil ENP)
Seat Insert	Viton GLT (Delta Ring)
Body Seals	Viton GLT
Firesafe Seals	Graphite
Studs / Nuts	L7M / 7M
Fittings	A182 F316



Delta Ring Insert locks inside the seat

### The "Double Piston Effect"

This seat ring design is modified so pressure acts on both the external & internal side of seat rings. The resulting force pushes equally against the ball so each seat ring has the required seal tightness. Even if pressure is applied in body cavity a positive seal is assured simultaneously, on both sides of ball.

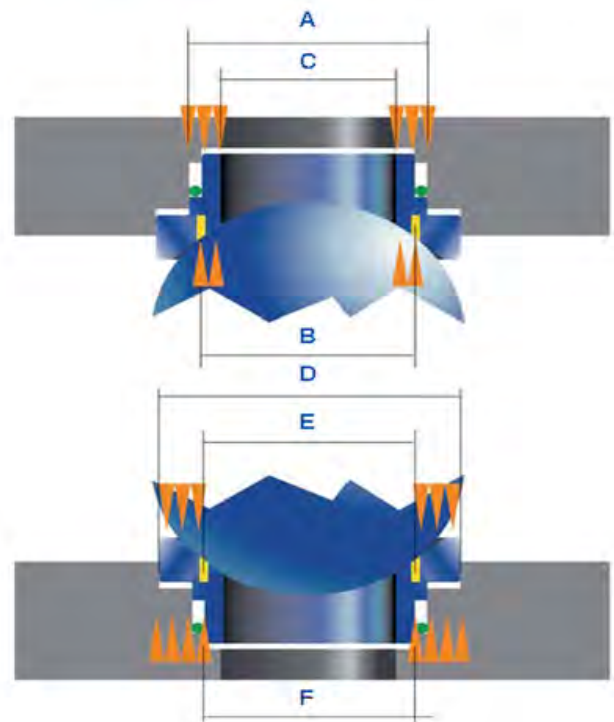
Release of over-pressure developed in the body cavity requires an external safety relief valve and is supplied when requested. This safety feature is recommended in liquid service.

Double piston effect

Up stream  
 $(A - C) > (B - C)$

Body cavity

Down stream  
 $(D - E) > (D - F)$



### CANADA

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