

Comparison

PosiWell[®]



COMPARISON



Introduction

DBB Plug valves was first introduced in the early 50s by a Valve's Service Company to meet requirements of bubble tight services in the petroleum industries and it was later sold off and marketed as " General Twin Seal" which is own by Cooper Cameron today.

Copies emerged after Expiry of Patent rights and till date there are probably more than a dozen copies that inherent the same design and sealing with little enhancements to counter aggressive chemicals presents days.

Trisome, like the original inventor of the DBB Plug valves being a valve's Service, Modifications, Automation and repair company with deep understanding of the root cause of failure and high ownership cost, have embarked to developed a solution.

PosiWell[®] was developed in 2011 and field tested for 2 years in various location and started supplying to projects regionally thereafter.

Patent Pending

Registered Trademark

Innovation by Design

Common DBB Plug Failures :

DBB PLUG VALVES



Crackling & peeling of ENP (Electroless Nickel Plating) which is the adopted corrosion protection on the plug & seat surfaces in the wetted area are of Carbon Steel constructions in most cases.

High, Expensive and maintenance cost

Costly Repair !

Common DBB Plug Failures :



Failed Slips Seals & Sheared Cam Pin

Medium : Fuel Oil Services

Duration : Just after 6 months in use

Damages : Failed Slips Seals

: Damages Cam Pin

(due to seized slips)



Costly Repair !

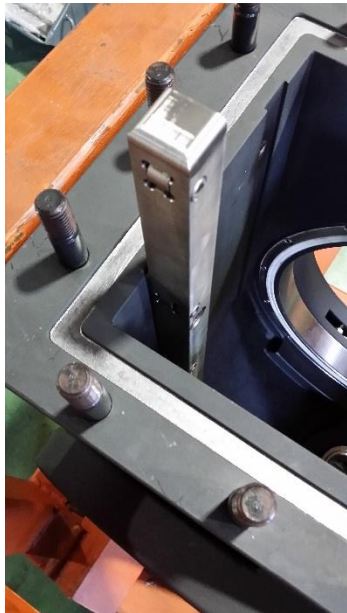
Comparisons :

Comparisons	DBB Plug Type in General	PosiWell - DBB Gate
Design Code	API 6D	API 6D
Leakage Class	Class VI - Bubble Tight	Class Vi - Bubble Tight
Body Material	A216 WCB - Chrome Plated	A216 - WCB - Phosphate Coating
Plug Material	A216 - WCB Chrome Plated	SS304 as standard
Stem Material	Ductile Iron / Carbon Steel / 17-4 PH SS	SS304 as standard
Seal Material	Viton - as standard	RPTFE as standard
Seat Design	Molded on Slips - <i>Need to replaced or repair by factory</i>	Secured on SS304 Seat Ring - online replaceable
Gland Packing Seal	Graphite	Graphite
Bottom Cavity Flush	Not available	Standard with Drain Valve for flushing off particles
Piggable	No ..Only for Full Bore Options	Yes - Full Bore as standard
Spring Loaded Disc for Thermal expansion	No	Yes
Face to Face	B16.10 / B16.47 for Regular Bore Only. <i>Full Bore are Non-Standard</i>	B16.10 / B16.47 as standard

PosiWell DBB are designed by Engineers with Field Service & Repairs experience that's makes the difference ...

- *Large Cavity to accommodate trapped debris and rust scales from within the piping systems, large Bottom Bleed valve to allowed flushing. (Not available on most DBB Plug Valve)*
- *Patented Seat design (4 points sealing) self cleaning by line pressure, economical online replaceable seat. Telfon (just good for about anything) is the standard seat material adopted. Teflon is an options and not available for some Plug Valve Make because molding Teflon onto the Slips is a tricky process, instead Viton and Modified Viton is being used and in some cases not compatible to aggressive chemical addictive that was blended in today's petroleum products.*
- *Stainless Steel Internal Parts and Alu-Bronze Slider are standard for PosiWell so as to eliminate corrosion issues which is the root cause to a seized plug valve in most cases. Stainless Steel Trim are an expensive options for Plug Valves in most cases.*
- *PosiWell DBB being a Full Bore as standard gives 25-30% more flow and is more competitive than regular bore (Reduced) of DBB Plug Valves.*

Standard Constructions :



- SS304 Internal Parts
- Disc Guide with Roller to minimized friction
- RPTFE (15% Glass Reinforce Teflon) online replaceable

Posiwell Installation :



Vopak - Algeciras (Spain)



ATT - TJ Bin Phase 1 (Malaysia)



Vtti - Fujairah (UAE)



Oiltanking - Singapore

PosiWell DBB in Service :

Oiltanking Singapre, Oiltanking Malta, Oiltanking Copenhagen, Oiltanking Houston

Vtti - Malaysia, Vitti - Fujairah, Vtti - Cyprus

Tankstore Pulau Busing - Singapore, TankMed - Tunisia, Petrol Seraya - Singapore

Fujairah Oil Terminal (FOT) Concord Energy & Sinopec

Innovation by Design