



PVDF
ECTFE
ETFE
PP
HDPE
FEP
PFA



Brightech Valves and Controls Pvt.Ltd.
An ISO 9001:2000 Certified Company

"BRIGHTECH™" one PC cast Ductile Iron, Bi-directional, Quarter Turn, Full flow efficient, manually wrench operated taper Plug Valve.

Design Features & Benefits

Liner Locking

The lining is securely locked into the deep machined groove slot into the body & holes in casting plug under melting process of FEP or PFA. This prevents liner to collapse or blow out under full vacuum/high pressure applications in conjunction with high temperature.

Large Contact area

The full circumferential sealing area is created by the interface between the taper plug & body liner. Due to the compression sealing the valve is used in either direction. (Bi-directional)

No Cavity

Cavity less design, helps prevent accumulation of material between the body liner & taper plug.



Large ports area

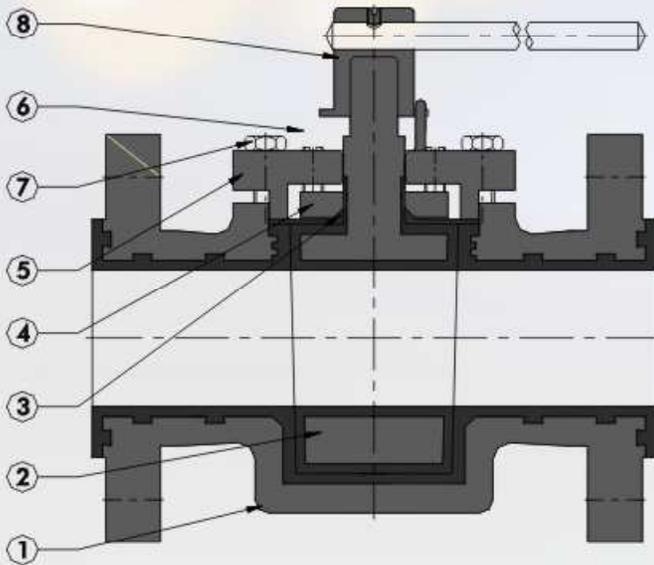
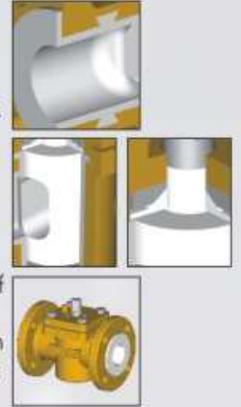
Ensures low pressure drop with higher flow rate.

Double sealing arrangement

Primary seal between the taper plug & body liner. The secondary seal is reversed V lip diaphragm which is pressurized and ensures excellent stem seal.

Standard design

The "BRIGHTECH™" fully lined plug valve are designed in accordance with flange dimension of ANSI B16.5, #150 & face to face dimension of ANSI B16.10 permits these valves to replace with any standard plug valves without altering existing piping.



Material Specification

SR.NO.	ART NAME	MATERIAL
1	Body	Cast Ductile Iron with Lining
2	Plug	ASTM A216 Gr.WCB/CF8M with Lining
3	Diaphragm	PTFE
4	Thrust collar	SS 304/SS 316
5	Cover	ASTM A 216 Gr.WCB/CF8/CF8M
6	Setting Grub	Cast Steel
7	Bolts & Nuts	SS 304/SS 316
8	Handle & knob	Mild Steel / Cast Steel

Dimension & Weight

Size	25	40	50	80	100	150
F to F ^{+1.6}	127	165	178	203	229	267
H	92	112	125	140	170	320
Torque (NM)	25	40	50	80	100	150
CV	45	90	175	295	550	1080
Weight (kg)	3.5	7	10.5	14.5	29	59

Lining Specification

- Other Lining Material** - We offer other lining materials like Kynar (PVDF), Tefzel (ETFE), Hallar (ECTFE), PP & HDPE.
- Lining Thickness** - Min. 3.0mm/4.0mm overall.
- Spark Test** - Body liners & all wetted parts are spark tested at 20,000 V.
- Hydro Test** - Body hydro test at 20 kg/cm²., Seat hydro test at 15 kg/cm².

Optional Accessories

The "BRIGHTECH™" fully lined Plug Valve can be offered with following optional accessories • Gear Box • Pneumatic Rotary Actuator / Cylinder • Solenoid Valve • Limit Switch • Electro Pneumatic Valve Positioner • Air filter Regulator

Our Specialty "We offer fully Jacketed lined plug valve".

Note: The body material is generally cast Ductile iron alternatively we offer completely CF8 / CF8M Body and Plug.



Brightech Valves and Controls Pvt. Ltd.

Plot No.:- 345, Road No. :- 6, GIDC Kathwada, Ahmedabad 382 430. Phone: +91-79-22902911, 65248816.
Fax: +91-79-22900538, E-mail: info@brightechvalves.com, Web: www.brightechvalves.com