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PFA Lined Plug Valve

MVI PFA lined Plug Valve has a PFA lined body and plug, there is never a need to replace seats and the valve plug can be re-seated inline. Mainly was used for aggressive medium in chemical plants.

Technical Specification

- Design Standards: DIN 3357, API 599
 - Flange Ends: DIN 2532 PN10/16, ASME B16.5, Class 150, Raised Face
 - Face to face: DIN 3202, ASME B16.10
 - Inspection and Testing: DIN 12569, API 598
- Size Range: DN15-300 (1/2"-12")
 - Body Material: ASTM A216 WCB, A351 CF8/CF8M
 - Lining Material: PFA (or FEP material also is available)
 - Temperature Range: -20°C to 200°C (Depending on working conditions and Fluoroplastic material)
 - Working Pressure: -0.1mbar~16bar
 - All the lined valves should be done 14kv spark test



High Quality PFA Liner Of The Body

MVI Lined Plug Valves use high precision investment casting method for all major pressure holding components. The feature an unpigmented virgin PFA/FEP lining applied by Transfer Molding and locked into castings by machined dovetail-shaped grooves, and cast dovetail-shaped recesses in body castings and cast holes.

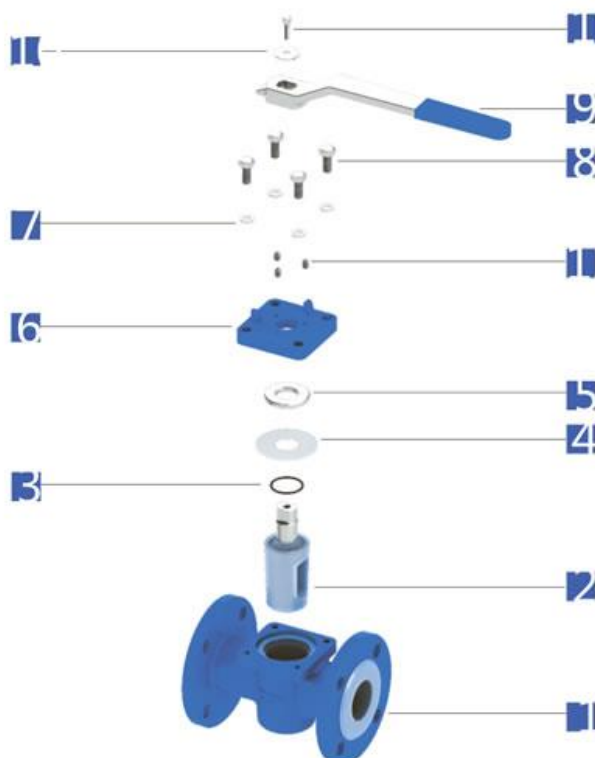
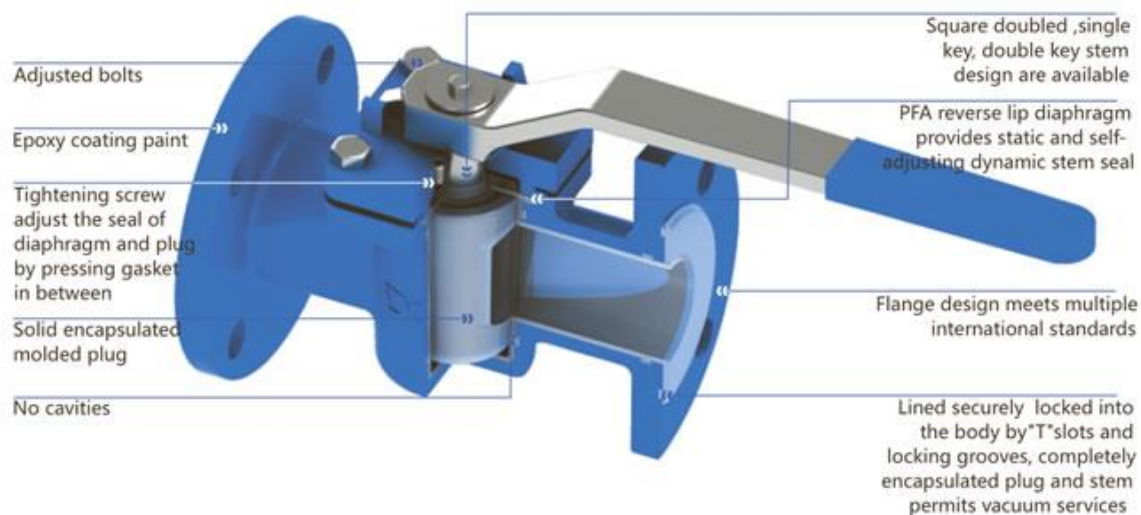
Our lining plug valves has a carbon steel body with a PFA fluoropolymer liner to all wetted parts. The plug is also encapsulated in PFA providing maximum corrosion resistance. The seat area is far greater than that of comparable ball valve assuring bubble tight shut off. The seal is assured both up and down stream independent of the line pressure. There is no need to replace seats, the valve can be re-seated whilst inline by a quick and easy stem adjustment.

The PFA lined Plug Valve mainly was used for aggressive medium in chemical plants, such as sulfuric acid plant, Hypochlorous acid, Hydrochloric acid, Sodium hydroxide etc.

If some chemicals not so aggressive, the FEP grade fluoroplastic material also is available for economic choice.

Product Features:

1. Bi-directional flow
2. Quarter-turn operation
3. Non-lubricated
4. Self-cleaning on each operation
5. 2-way and multiport configurations
6. Special service and jacketed designs available
7. All casting components traceable to mill test certificates
8. Prevents liner collapse in vacuum conditions
9. Prevents blow out in high temperature and pressure combined conditions
10. No weak sections in the valve liner
11. All liner defects are directly visible
12. No particle accumulation
13. Ideal for corrosive slurry applications superior sealing capabilities

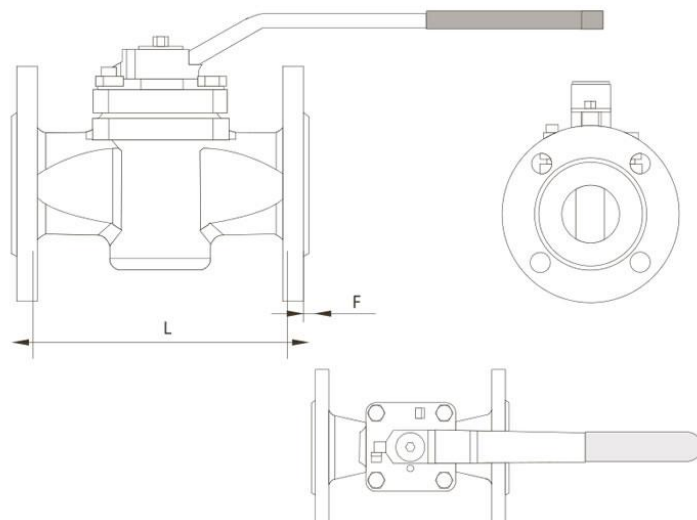


No.	Designation	Qty.	Materials	Materials According to Norms		
				ASME	JIS	DIN
1	BODY	1	Carbon Steel Lined PFA/FEP	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel Lined PFA/FEP	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron Lined PFA/FEP	ASTM A395	FCD400	GGG-40 (0.7040)
2	ONE-PIECE PLUG	1	Carbon Steel Lined PFA/FEP	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel Lined PFA/FEP	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
3	O-RING	1	VITON	-	-	-
4	DIAPHRAGM	1	PFA/PTFE	-	-	-
5	GASKET	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
6	BONNET	1	Carbon Steel	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
7	WASHER	4	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
8	BONNET BOLT	4	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
9	HANDLE	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
10	WASHER	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
11	HUB BOLT	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
12	SCREW	3	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301

Plug valves are recognised as being the best type of valve for positive shut off of process. It has excellent environment sealing too, due to its inherent plug design. The valve is supplied with a PTFE sleeve as standard and can be adjusted inline to reseal if required. The valve can be supplied in a wide selection on metals from cast steel to specialist corrosion resisting alloys.

Non-Lubricated Sleeved and Lined Plug Valves incorporate the best PTFE fluorocarbon seat design. With little required maintenance and trouble-free operation, a high integrity bubble-tight seal is provided both in-line and to atmosphere.

PTFE Sleeved Metallic Non-lubricated Plug Valve



DN	NPS	ASME B16.5		JIS B2212 10K		DIN2532 Pn10		Weight	CV
mm	in	L	f	L	f	L	f	[kg]	
15	½	108	2	130	2	130	2	2.4	10
20	¾	117	2	150	2	150	2	2.4	12
25	1	127	2	160	2	160	2	3.4	17
40	1½	165	2	200	2	200	2	4.9	39
50	2	178	2	230	2	230	2	6	70
80	3	203	2	310	2	310	2	9	180
100	4	229	2	350	2	350	2	19	305
150	6	267	2	480	2	480	2	48	712
200	8	292	2	600	2	600	2	65	1011
250	10	330	2	730	2	730	2	88	1840
300	12	356	2	850	2	850	2	125	2435

General Applications:

1. Chemically highly corrosive and toxic media
2. Purification plants
3. Pharmaceutical Industry
4. Adhesives, Paper Industry, Fuel Transport
5. Paint manufacture and processing
6. Food Industry
7. Transport of hazardous materials
8. Wet chloric gas
9. Conditioning of materials, e.g. galvanizing and pickling
10. Processing of ore
11. Fuel transport and storage

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