

PLASTRULON MODEL FB1 1TTT PFA LINED FULL BORE BALL VALVE



Body.

Body material is Cast Ductile Iron to ASTM A395 and lined with 3 to 5 mm of high grade PFA. The liner is locked to the body via dovetail grooves to ensure positive retention of the liner under vacuum service.

The liner is fully compatible with virgin PTFE lined piping and is suitable for an extremely wide range of industrial fluids at temperatures of up to 200 degrees Celsius.

The minimum body cavity space reduces potential product accumulation and contamination problems. Metal to metal body joints fully control lining compression.

Full bore design ensures minimum pressure drop.

Face to face dimensions are as per ANSI B16.10 short pattern

Flange dimensions are as per ANSI B16.5

One-piece ball/stem.

The one piece ball/stem design prevents any ball-stem hysteresis and guarantees positioning of ball in open/closed conditions.

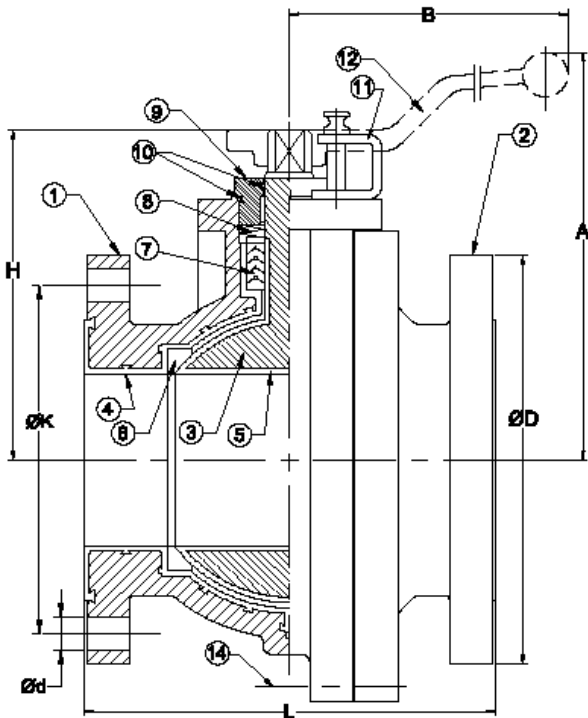
The ball/stem is made from precision cast in CF8 stainless steel and lined in PFA. The liner is locked to the ball/stem via tie-holes. The design of the ball/stem is inherently blow-out proof even under top works disassembly.

Long life seat rings.

Valve seat rings are manufactured from virgin PTFE to ensure maximum sealing performance capability. The seats are retained within machined recessed seat pockets away from the process flow.

High integrity gland.

Unique packing system. Self adjusting with permanent loading (Stainless steel Belleville springs). PTFE chevron packing provides stem seal integrity while maintaining low turning torque.



Item	Description	Materials
1	Body	ASTM A395
2	Adaptor	ASTM A395
3	Ball/Stem	ASTM A351 CF8
4	Body lining	PFA
5	Ball/Stem lining	PFA
6	Seat rings	PTFE
7	Packing ring set	PTFE
8	Disc spring set	SS304
9	Packing gland	ASTM A351 CF8
10	O'Ring seal set	Viton
11	Lever stop (lockable)	SS304
12	Lever	ASTM 216 WCB
13	ISO 5211 mounting pad	
14	fasteners	SS304
	Anti-Static device	SS304

Material options.	
Body	A216 WCB, A352 LCC, A351 CF8, A351 CF8M
Liner	FEP, ETFE, PVDF, PP

Dimensions All dimensions are in millimetres								Actuation		Flow Rates		Weight	
Size	L	B	ØD	Ød	ØK	H	A	ISO 5211	Operating torque (NM) no safety		Kv	Cv	Kg
									0 barg	10 barg	m³/h	US gpm	
1/2"	111	100	89	16	60.3	58.7	85	F05	10	5	17.4	20.5	5
1"	127	175	108	16	79.5	86.1	125	F05	15	10	61	70.5	5.5
1.5"	165	225	127	16	98.4	115.9	160	F07	30	20	188	219	12
2"	178	250	152.4	19	120.7	123.4	180	F07	45	32	276	321	15
3"	203	300	190.5	19	152.4	155.5	220	F10	90	75	591	692	29
4"	228	350	229	19	190.5	185	250	F10	225	195	1247	1451	46
6"	267	600	279	23	241.3	227	270	F10	308	280	2755	3215	76.5
8"	267	600	279	23	240.5	227	270	F12	308	280	2755	3215	95

Note: Size 200nb / 8" is reduced port with a minimum bore equivalent to size 150nb / 6"
 Torque figures are based on a lubricated duty and are constant.

