

PLASTRULON MODEL FB21TTT PFA LINED FULL BORE BALL VALVE



CE
0038

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: DIN 3202/F1

Flange dimensions: DIN 2501 PN16

One-piece ball/stem.

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

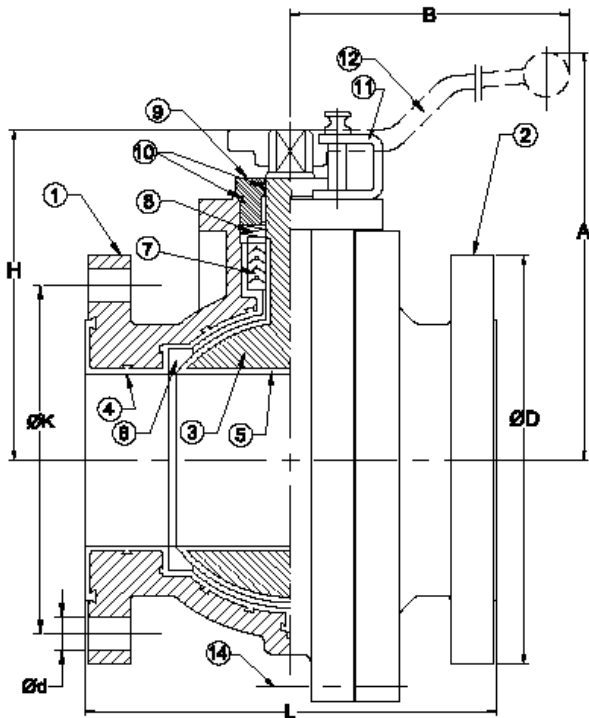
The ball/stem is made from precision cast in CF8 stainless steel and lined in PFA. The liner is locked to the ball/stem via tie-holes. The design of the ball/stem is inherently blow-out proof even under top works disassembly.

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 x n	ØK	H	A	ISO 5211	Operating torque (NM) no safety		Kv	Cv	Kg
									0 barg	10 barg			
15mm	130	100	95	14 x 4	65	58.7	85	F05	10	5	17.4	20.5	6
20mm	150	175	105	14 x 4	75	86.1	125	F05	15	10	61	70.5	6.5
25mm	160	175	115	14 x 4	85	86.1	125	F05	15	10	61	70.5	6.5
40mm	200	225	150	18 x 4	110	115.9	160	F07	30	20	188	219	15
50mm	230	250	165	18 x 4	125	123.4	180	F07	45	32	276	321	18
80mm	310	300	200	18 x 8	160	155.5	220	F10	90	75	591	692	35
100mm	350	350	220	18 x 8	180	185	250	F10	225	195	1247	1451	57
150mm	480	600	285	23 x 8	240	227	270	F10	308	280	2755	3215	99
200mm	457	600	340	23 x 12	295	227	270	F12	308	280	2755	3215	120

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 our constant.

