

**PRECISION CAST BODY, PLUG AND COVER**

FluoroSeal<sup>®</sup> Lined Plug Valves use high precision investment casting method for all major pressure holding components.

**CORROSION PROTECTION**

FluoroSeal<sup>®</sup> standard base model offers Carbon Steel body, plug and cover (ASTM A216 Gr. WCB).

- Low porosity PFA (Perfluoroalkoxy) as standard liner
- All cast parts have an epoxy based coating prior to lining for added protection from corrosion attack due to permeation

**LOCKED-IN LINER**

FluoroSeal<sup>®</sup> Lined Plug Valves feature an unpigmented virgin PFA 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.

- Prevents liner collapse in vacuum conditions
- Prevents blow out in high temperature and pressure combined conditions
- Transfer Molding insures equal distribution and consistency of liner throughout the entire surface of the lined components as per ASTM F1545
- No weak sections in the valve liner
- All liner defects are directly visible

**CAVITY-FREE DESIGN**

By design, Lined Plug Valves are cavity-free both in open and closed positions.

- No particle accumulation
- Ideal for corrosive slurry applications

**SUPERIOR SEALING CAPABILITIES**

The interface between the tapered outer plug and the tapered inner body liner provides a 360° primary sealing area. Additional sealing levels are achieved by a delta ring and PTFE diaphragm, both protected by a metal diaphragm. The metal diaphragm assists in encapsulation, acts as an antistatic device, and is a metal seal to atmosphere, in case of PTFE failure.

- Tight shutoff
- Compression seal (upstream and downstream)
- Bi-directional valve
- Sealed at both plug and stem

**ADDITIONAL FEATURES**

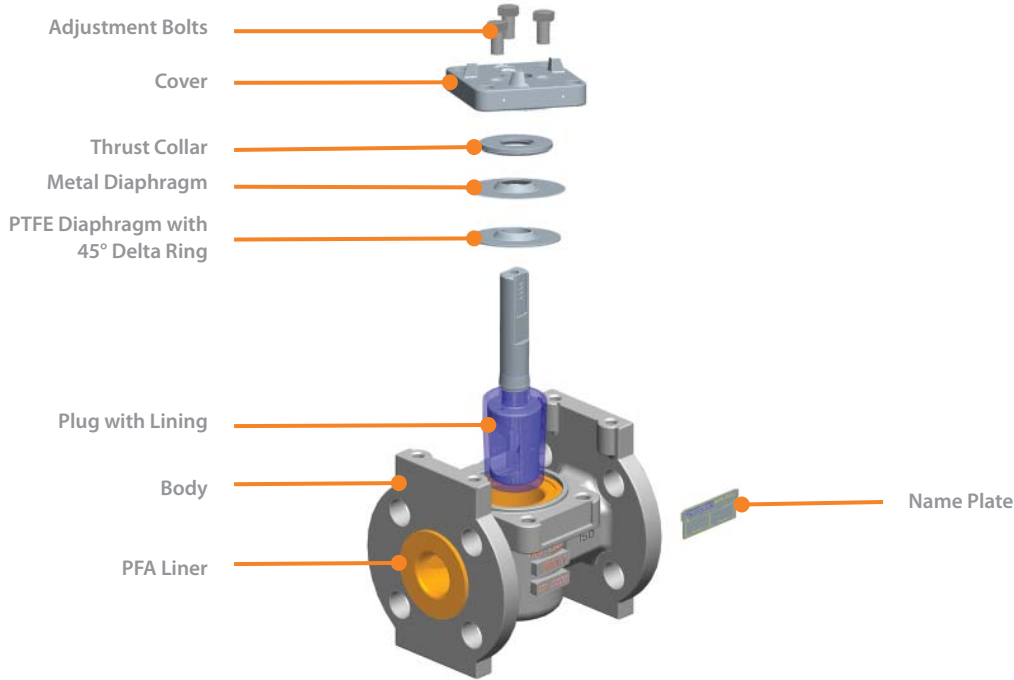
- ISO mount, explosion proof stem design
- Standard body material is WCB (1.0619) with a PFA lining
- Wrench or enclosed gear operated, actuators optional on all sizes



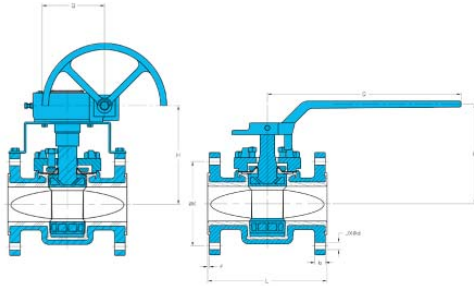
Lined Plug Cutaway

LINED-R006-S

# LINED PLUG VALVES



Lined Valve Exploded View



## LINED ANSI/ASME CLASS 150 LBS

Flanged Ends

Wrench or Enclosed Gear Operated, Actuators Optional on All Sizes

Dimensions to ANSI B16.5 & B16.10

EG = Enclosed gear operated N = Number of holes \* Available upon request

Two (2) top holes in flanges are tapped with UNC threads. See Hole-UNC column

SIZE & PRODUCT DESCRIPTION	L		H		D		K		g		b		f		d		Q		N	Hole-UNC
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	#	
1/2" LR152F/W-WCB/PFA	4.33	109.98	3.70	93.98	3.50	88.90	2.38	60.45	1.38	35.05	0.31	7.87	0.06	1.52	0.63	16.00	8.00	203.00	4	-
3/4" LR152F/W-WCB/PFA	4.69	119.13	3.70	93.98	3.88	98.55	2.75	69.85	1.69	42.93	0.34	8.64	0.06	1.52	0.63	16.00	8.00	203.00	4	-
1" LR152F/W-WCB/PFA	5.00	127.00	4.40	111.76	4.25	108.00	3.13	79.50	2.00	50.80	0.38	9.65	0.06	1.52	0.63	16.00	9.00	229.00	4	-
1 1/2" LR152F/W-WCB/PFA	6.50	165.10	5.20	132.08	5.00	127.00	3.88	98.60	2.88	73.20	0.50	12.70	0.06	1.52	0.63	16.00	14.25	362.00	4	-
2" LR152F/W-WCB/PFA	7.00	177.80	6.00	152.40	6.00	152.40	4.75	120.70	3.63	92.00	0.56	14.22	0.06	1.52	0.75	19.00	16.50	419.00	4	-
3" LR152F/W-WCB/PFA	8.00	203.20	6.60	167.64	7.50	190.50	6.00	152.40	5.00	127.00	0.69	17.53	0.06	1.52	0.75	19.00	16.50	419.00	4	-
4" LR152F/W-WCB/PFA	9.00	228.60	7.80	198.12	9.00	228.60	7.50	190.50	6.19	157.20	0.88	22.40	0.06	1.52	0.75	19.00	23.60	599.44	8	-
4" LR152F/EG-WCB/PFA	9.00	228.60	9.00	228.60	9.00	228.60	7.50	190.50	6.19	157.20	0.88	22.40	0.06	1.52	0.75	19.00	7.25	184.00	8	-
6" LR152F/EG-WCB/PFA	10.50	266.70	10.70	271.78	11.00	279.40	9.50	241.30	8.50	215.90	0.94	23.88	0.06	1.52	0.88	22.40	7.25	184.00	8	-
8" LR152F/EG-WCB/PFA*	11.50	292.10	13.00	330.20	13.50	342.90	11.75	298.50	10.63	269.80	1.06	26.92	0.14	3.56	0.88	22.40	9.75	248.00	8	3/4"-10
10" LR152F/EG-WCB/PFA*	13.00	330.20	14.90	378.46	16.00	406.40	14.25	362.00	12.75	323.90	1.12	28.45	0.14	3.56	1.00	25.40	9.75	248.00	12	7/8"-9
12" LR152F/EG-WCB/PFA*	14.00	355.60	15.70	398.78	19.00	482.60	17.00	431.80	15.00	381.00	1.19	30.23	0.14	3.56	1.00	25.40	13.75	349.25	12	7/8"-9
14" LR152F/EG-WCB/PFA*	15.00	381.00	15.70	398.78	21.00	533.40	18.75	476.30	16.25	412.80	1.31	33.27	0.14	3.56	1.12	28.40	13.75	349.25	12	1"-8

## LINED DIN PN 16

Flanged Ends

Dimensions to DIN EN 1092-1 & DIN EN 558-1 Enclosed gear optional on DN 100, and standard on DN 125 and DN 150

N = Number of holes

Two (2) top holes in flanges are tapped with metric threads. See Bolt Size column

SIZE	PN	L		H	D	K	g	b	f	d	Q	N	Bolt Size
		mm	mm										
DN 25	16	160.00	145.00	115.00	85.00	68.00	18.00	2.00	14.00	210.00	4	M12	
DN 32	16	180.00	176.00	140.00	100.00	78.00	18.00	2.00	18.00	262.50	4	M16	
DN 40	16	200.00	176.00	150.00	110.00	88.00	18.00	2.00	18.00	262.50	4	M16	
DN 50	16	230.00	195.00	165.00	125.00	102.00	18.00	2.00	18.00	419.10	4	M16	
DN 65	16	290.00	173.00	185.00	145.00	122.00	18.00	2.00	18.00	419.10	8*	M16	
DN 80	16	310.00	173.00	200.00	160.00	138.00	20.00	2.00	18.00	419.10	8	M16	
DN 100	16	350.00	200.00	220.00	180.00	158.00	20.00	2.00	18.00	618.00	8	M16	
DN 125	16	325.00	303.00	250.00	210.00	188.00	22.00	2.00	18.00	184.20	8	M16	
DN 150	16	350.00	290.00	285.00	240.00	212.00	22.00	2.00	22.00	184.20	8	M20	