



Lined Plug Valve

Overview

Fluorine-Lined Plug Valves are engineered for corrosive, abrasive, or high-purity media. Featuring a fully fluoroplastic-lined interior—typically PTFE—that covers all wetted parts, these valves utilize a rotating plug for quick shut-off, regulation, or flow diversion. Their design ensures reliable sealing, simplifies piping systems, and maintains isolation integrity.



Feature

- **Corrosion & Abrasion Resistant:** Full PTFE/fluoroplastic lining for aggressive and abrasive media.
- **Low Flow Resistance:** Straight-through flow design minimizes pressure drop.
- **Self-Cleaning Action:** Plug rotation wipes sealing surfaces, suitable for slurries and sticky fluids.
- **Thermal Compensation:** Double-groove sealing rings secure lining and absorb thermal deformation.
- **Quick 90° Operation:** Enables rapid open/close or flow diversion.
- **Multi-Port Options:** Three-way and multi-way designs simplify system layout.
- **Easy Maintenance:** Adjustable flange allows seal compensation and inline servicing.



Application

Widely utilized for handling corrosive, abrasive, and high-purity fluids across industries including chemical processing, pharmaceuticals, metallurgy, water treatment, and power generation—particularly in FGD systems and chemical dosing applications.

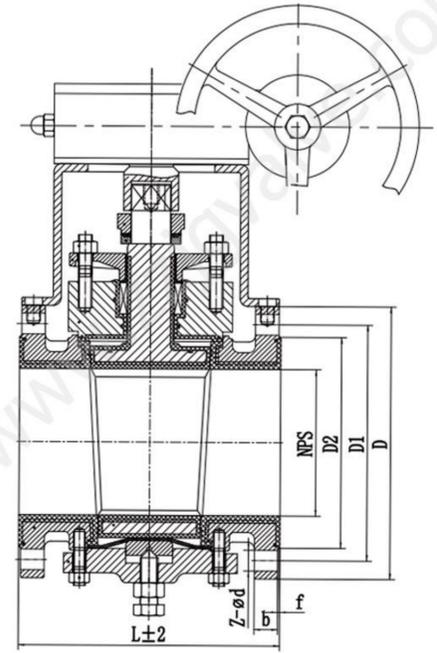
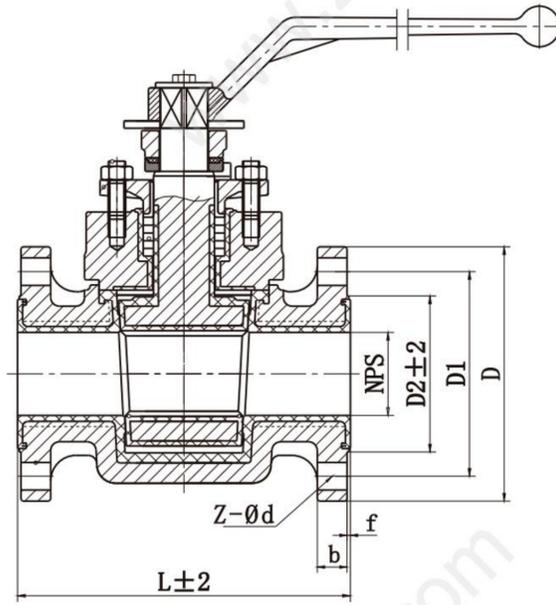
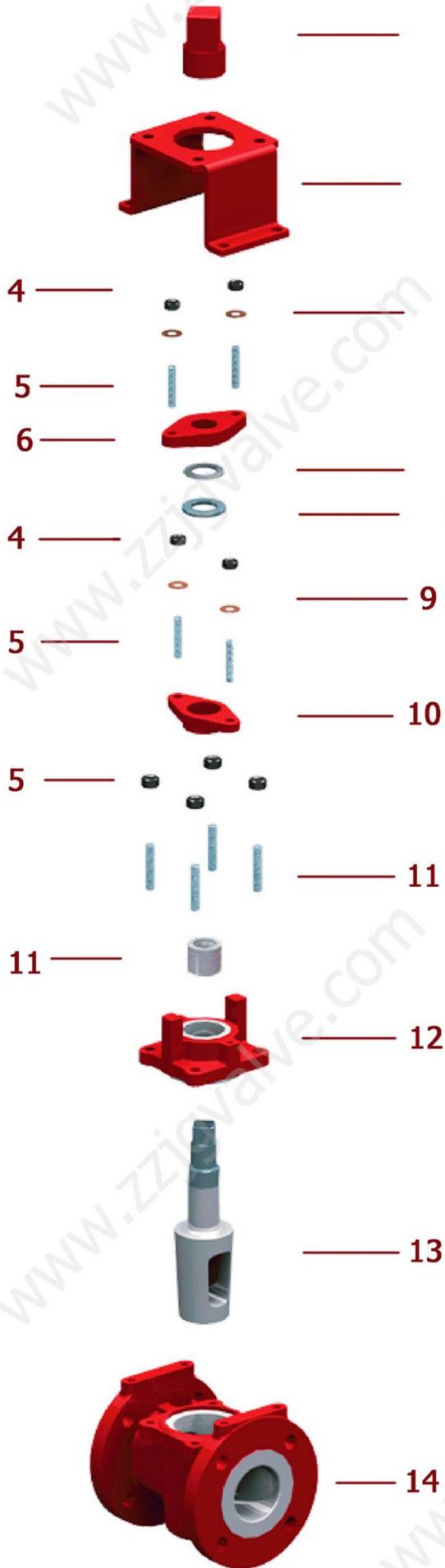
Technical specifications

Design	Face to Face	Flange Dimensions	Test	Marking	Supply
GB/T 22130, HG/T 3704	GB/T 12221	HG/T 20592	GB/T 13927 (Spark Test)	GB/T 12220	GB/T 12252
API 599, ASME B16.34	ASME B16.10	ASME B16.5	API 598 (Spark Test)	ASME B16.34, MSS SP-25	API 599





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Flange type lever operated plug valve (Fully lined) Flange type gear operated plug valve (Fully lined)

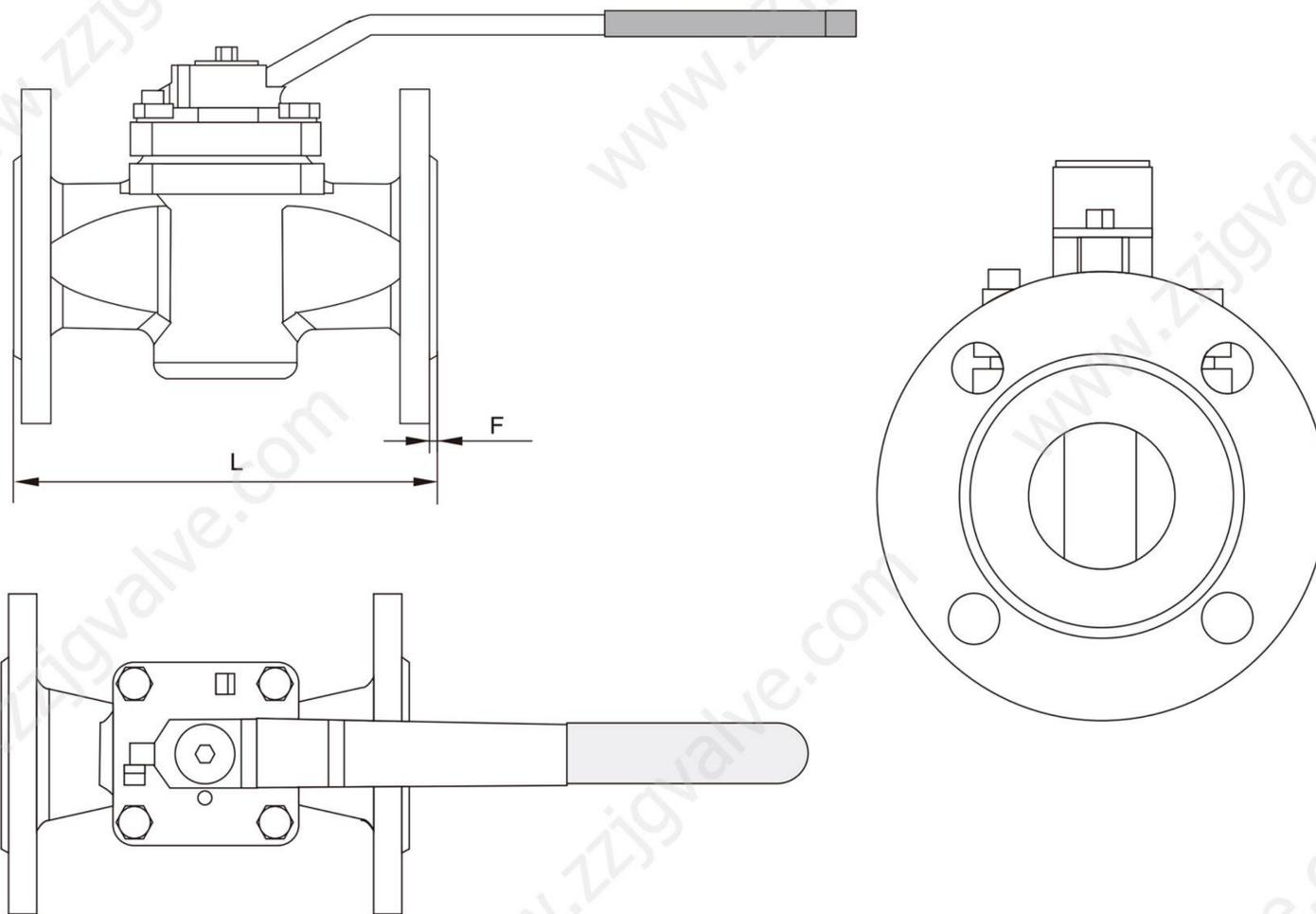
Main Parts Material

No.	Description	Material	Material
1	Joint shaft	A105	A182 F304
2	Yoke	A216 WCB	A351 CF8
3	Belleville Spring	17-7	17-7
4	Nut	A194 2H	A194 8
5	Bolt	A193 B7	A193 B8
6	Plug Adjustment Flange	A216 WCB	A351 CF8
7	PTFE Gasket	PTFE	PTFE
8	Metal Washer	A3	304
9	Belleville Spring	17-7	17-7
10	Gland Flange	A216 WCB	A351 CF8
11	Packing	PTFE	PTFE
12	Bonnet	A216 WCB+F46/PFA	A216 WCB+F46/PFA
13	Plug	A216 WCB+F46/PFA	A216 WCB+F46/PFA
14	Body	A216 WCB+F46/PFA	A216 WCB+F46/PFA





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Main Dimensions

DN	NPS	ASME B16.5		JIS B221210K		DIN2532 PN10		Weight [kg]	CV
		L	f	L	f	L	f		
15	1/2	108	2	130	2	130	2	2.4	10
20	3/4	117	2	150	2	150	2	2.4	12
25	1	127	2	160	2	160	2	3.4	17
40	1 1/2	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

