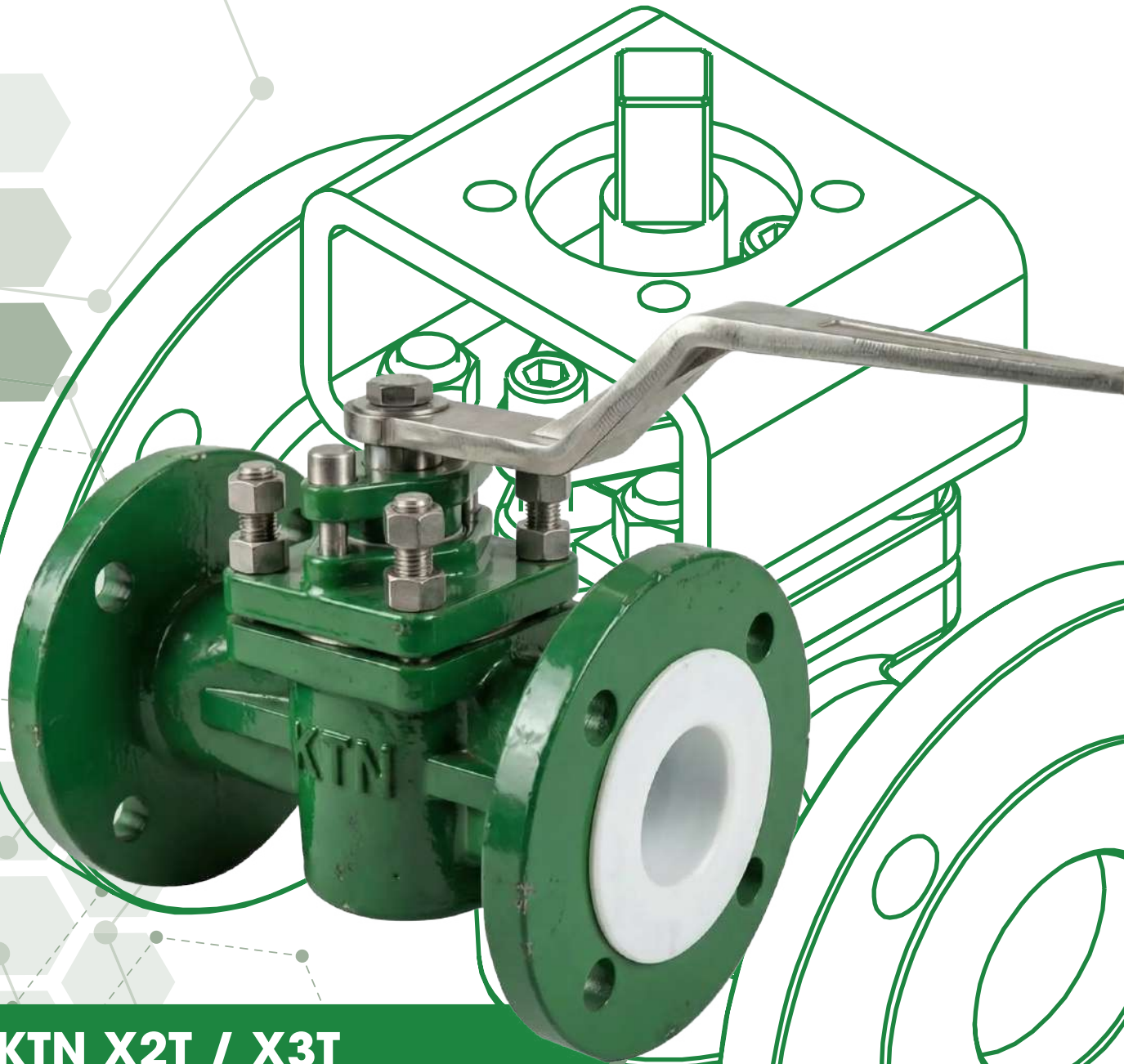




KTN X2T / X3T

PLUG

DN150-300|PN10-16

SLEEVE TYPE SOFT SEALING PLUG VALVE



- KTN fully lined plug valves are designed with a clear goal in mind: eliminating internal cavities. Thanks to the specially engineered body design, the liner is securely locked in place and even extends over the shaft sealing area, adding extra protection where it matters most.
- One detail that really stands out is how the lining is moulded into dovetail grooves in the body. This isn't just a design choice—it ensures the liner stays firmly in position, preventing collapse under vacuum conditions and avoiding blowout when operating under high pressure. In short, it holds up even in demanding environments.
- On top of that, the two-way, cavity-free design helps prevent the buildup of particles inside the valve. This makes it an excellent choice for slurry applications, where solid accumulation can often become a serious issue over time.
- The plug and body cavity are also designed with an ideal taper. And here's something practical: if sealing performance starts to decline due to wear during operation, the three adjustment bolts on the cover allow for external, in-line sealing adjustment. No need to stop everything—just fine-tune it and restore optimal sealing, extending the valve's service life.
- Sealing reliability is taken a step further with a secondary sealing system at the top. If the primary sealing surface fails, this second layer prevents leakage through the valve stem. It's a reassuring backup, especially in critical applications.
- Maintenance is also straightforward. By removing the four bolts on the cover, all internal components can be accessed easily. Parts can be replaced directly without removing the valve from the pipeline, saving both time and effort.
- In terms of chemical resistance, these valves can handle a wide range of corrosive media—even more aggressive substances like molten alkali metals and fluorine elements. That's why they are widely used in industries such as chlor-alkali, chemical processing, and pharmaceuticals.
- For materials, lining options include PFA, FEP, PO, and others, depending on the application requirements. As for operation, multiple options are available: manual, worm gear, electric, pneumatic, or hydraulic actuation.
- KTN also offers flexibility in sizes and materials, allowing customization beyond standard specifications to meet specific application needs.

Technical Specification

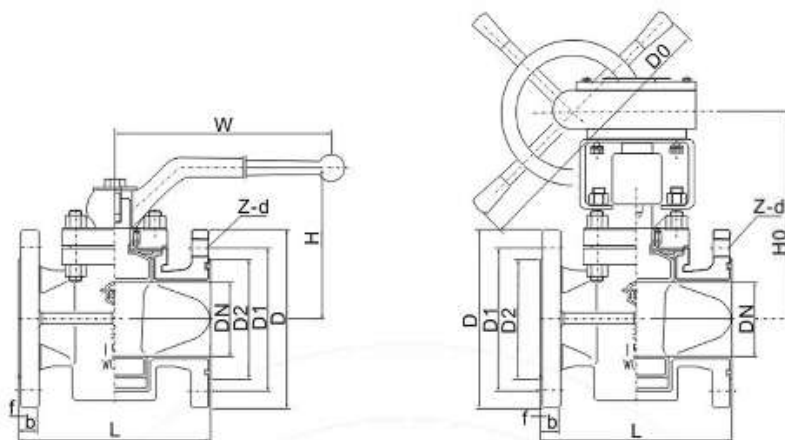
Design & Manufacture Standard		HG/T 3704, GB/T 12240		API 6D
Face-to-face Dimension Standard		HG/T 3704, GB/T 12221		ASME B16.10
Flange Standard		HG/T 20592, GB/T 9119		ASME B16.5
Inspection & Test Standard		GB/T 13927, JB/T 9092		API 598
Nominal Diameter		DN15-DN300		1/2"-12"
Pressure (MPa)		1.0	1.6	150LB
Pressure Test (MPa)	Shell Test	1.5	1.5	1.5
	High Pressure Sealing	1.1	1.1	1.1
	Low Pressure Sealing	0.6	0.6	0.6
Temperature Range (*C)		PFA:-30-200		FEP: -30~150
Applicable Medium		Strong corrosive medium i.e. hydrochloric acid Nitric acid, Hydrofluoric acid, Liquid chlorine Sulfuric Acid and Aqua regia etc.		

Material Specification

NO.	NAME	MATERIAL		
1	Body blot	A193 B7	A320 B8	A193 B8M
2	Handle seat	A216 WCB	A351 CF8	A351 CF8M
3	Operation rod	1025 SS304		
4	Top cap bolt	A193 B7	A320 B8	A193 B8M
5	Adjusting screw	A193 B7	A320 B8	A193 B8M
6	Bonnet	A216 WCB	A351 CF8	A351 CF8M
7	Metal gasket	SS304		
8	V-shape gasket	PTFE		
9	Wedge ring	PTFE		
10	Plug	A216 WCB +Lining material	A351 CF8 +Lining material	A351 CF8M +Lining material
11	Body	A216 WCB +Lining material	A351 CF8 +Lining material	A351 CF8M +Lining material



DIN

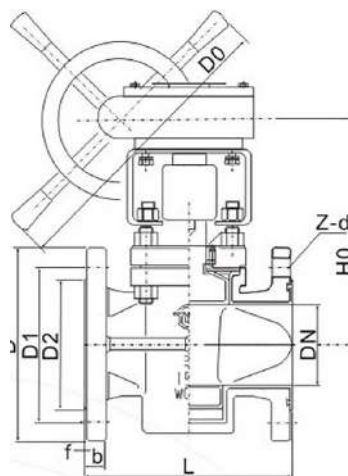
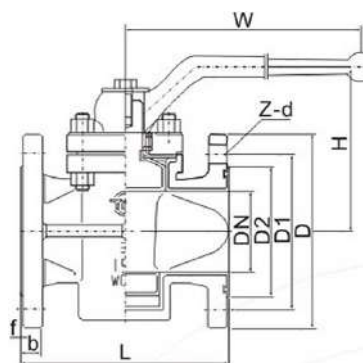


X2-PN10										
DN	L	D	D1	D2	Z-d	f	b	H	W	H0
15	110	95	65	45	4-14	2.5	14	85	180	-
20	117	105	75	55	4-14	2.5	16	88	180	-
25	127	115	85	65	4-14	2.5	16	98	260	-
32	140	140	100	78	4-18	2.5	16	101	260	-
40	165	150	110	85	4-18	3	16	128	320	-
50	178	165	125	100	4-18	3	16	128	320	-
65	190	185	145	120	4-18	3.5	16	135	320	-
80	203	200	160	135	8-18	3.5	18	164	400	322
100	229	220	180	155	8-18	4	18	178	400	322
125	254	250	210	185	8-18	4	20	205	-	385
150	267	285	240	210	8-23	4	20	220	-	405
200	292	340	295	265	8-23	4.5	22	-	-	455
250	330	395	350	320	12-23	4.5	24	-	-	490
X2-PN16										
DN	L	D	D1	D2	Z-d	f	b	H	W	H0
15	110	95	65	45	4-14	2.5	14	85	180	-
20	117	105	75	55	4-14	2.5	16	88	180	-
25	127	115	85	65	4-14	2.5	16	98	260	-
32	140	140	100	78	4-18	2.5	16	101	260	-
40	165	150	110	85	4-18	3	16	128	320	-
50	178	165	125	100	4-18	3	16	128	320	-
65	190	185	145	120	4-18	3.5	16	135	320	-
80	203	200	160	135	8-18	3.5	18	164	400	322
100	229	220	180	155	8-18	4	18	178	400	322
125	254	250	210	185	8-18	4	20	205	-	385
150	267	285	240	210	8-23	4	20	220	-	405
200	292	340	295	265	12-23	4.5	22	-	-	455
250	330	405	355	320	12-26	4.5	24	-	-	490

KTN X2T/X3T

SLEEVE TYPE SOFT SEALING PLUG VALVE

ANSI



X3 - Class150											
NPS	DN	L	D	D1	D2	Z-d	f	b	H	W	H0
1/2	15	110	89	60.5	35	4-16	2.5	8	85	180	-
3/4	20	117	98	70.0	43	4-16	2.5	8.9	88	180	-
1	25	127	108	79.5	51	4-16	2.5	9.6	98	260	-
1 1/4	32	140	117	89.0	64	4-16	2.5	11.2	101	260	-
1 1/2	40	165	127	98.5	73	4-16	3	12.7	128	320	-
2	50	178	152	120.5	92	4-19	3	14.3	128	320	-
2 1/2	65	190	178	139.5	105	4-19	3.5	15.9	135	320	-
3	80	203	190	152.5	127	4-19	3.5	17.5	164	400	322
4	100	229	229	190.5	157	8-19	4	22.3	178	400	322
5	125	254	254	216.0	186	8-22	4	22.3	205	-	385
6	150	267	279	241.5	216	8-22	4	23.9	220	-	405
8	200	292	343	298.5	270	8-22	4.5	27	-	-	455
10	250	330	406	362.0	324	12-25	4.5	28.6	-	-	490
X3 - Class300											
NPS	DN	L	D	D1	D2	Z-d	f	b	H	W	H0
1/2	15	110	95	66.5	35	4-16	2.5	8	85	180	-
3/4	20	117	117	82.5	43	4-19	2.5	8.9	88	180	-
1	25	127	124	89.0	51	4-19	2.5	9.6	98	260	-
1 1/4	32	140	133	98.5	64	4-19	2.5	11.2	101	260	-
1 1/2	40	165	156	114.5	73	4-22	3	12.7	128	320	-
2	50	178	165	127.0	92	8-19	3	14.3	128	320	-
2 1/2	65	190	190	149.0	105	8-22	3.5	15.9	135	320	-
3	80	203	210	168.5	127	8-22	3.5	17.5	164	400	322
4	100	229	254	200.0	157	8-22	4	22.3	178	400	332
5	125	254	279	235.0	186	8-22	4	22.3	205	-	385
6	150	267	318	270.0	216	12-22	4	23.9	220	-	405
8	200	292	381	330.0	270	12-25	4.5	27	-	-	455
10	250	330	445	387.5	324	16-29	4.5	28.6	-	-	490