

Patent No.: ZL200520107320.3

XProduct Description

- Youfumi fully lined plug valves are cavity-free due to the special body design, the liner is firmly locked.
- Plug coating is extended over the shaft sealing.
- The lining are moulded into dovetail recesses in the body to lock them in place to prevents liner collapse in vacuum conditions and blow out in high pressure conditions.
- Two way cavity free designs prevent accumulation of particulate matter making it an ideal choice for slurry application.
- There is ideal taper design for the plug and the body cavity. When it failures to seal as a result of worn in using process, the three adjusting bolts in the cover work for external adjustment of in-line seal, to assure a maximum sealing capability and an extended service life.
- Top sealing components form the second sealing. When the sealing surface failures to work, it prevents medium leaking through the valve stem.
- Disassemble the four bolts on the cover, all the parts in valve can be took out, and replace the parts directly without the need to remove valve from pipeline.
- Lined three-way plug valve is the best choice for corrosive diverter valve application.

- It can sustain any corrosive medium in addition to the "molten alkali metals and fluorine elements". It is ideal products used in chlor-alkali, industrial in organic chemicals, metal and mining, nitrogen and phosphatic fertilizers, petroleum refining, pharmaceutical etc.
- Lining material: PFA, FEP, PO etc.
- Operation methods: manual, worm gear, electric, pneumatic and hydraulic actuator.
- Youfumi lined plug valves are available as per the needs of applications in additional sizes and other than standard materials.



Lined Three-way Plug Valve





****Technical Specification**

Design & Standard	Manufacture	HG/T 3704, 0	API6D			
Face-to-fa Dimensio	ace n Standard	HG/T 3704, 0	GB/T 12221	ASME B16.10		
Flange St	tandard	HG/T 20592,	GB/T 9119	ASME B16.5		
Inspection Test Stan		GB/T 13927,	JB/T 9092	API 598		
Nominal [Diameter	DN15~DN300	1/2"~12"			
Nominal Pressure (MPa)		1.0	1.6	150Lb		
	Shell Test	1.5	1.5	1.5		
Pressure Test (MPa)	High Pressure Sealing	1.1	1.1	1.1		
(IVII a)	Low Pressure Sealing	0.6	0.6	0.6		
Temperat	ure Range (°C)	PFA: -30~	FEP: -30~150			
Applicable	e Medium	Strong corrosive medium i.e. hydrochloric aci 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	Top cap bolt		A193 B8					
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					





Lined Plug Valve

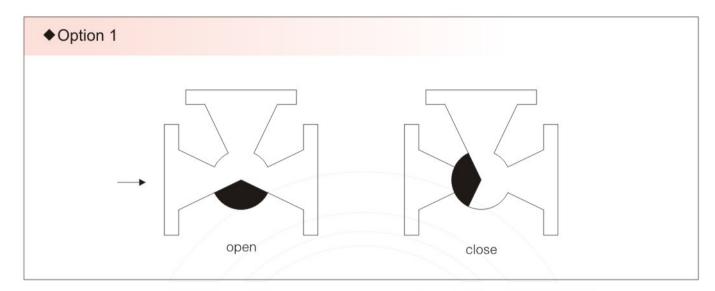
ALined Valve

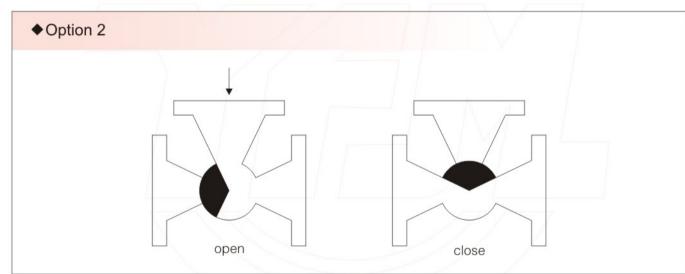
Lined Plug Valve-Three Way

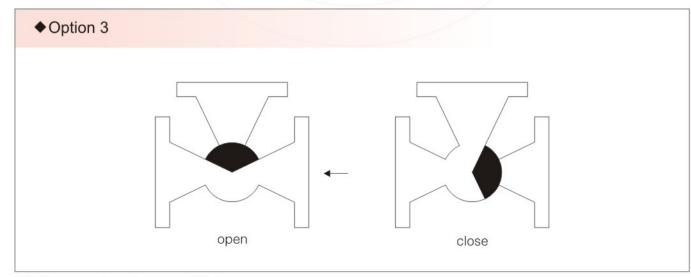


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***Optional Flow Arrangements**



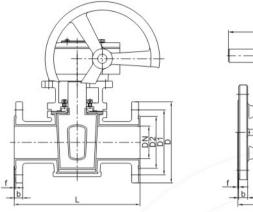




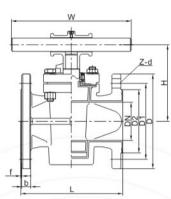
Note: For more options, please consult factory.

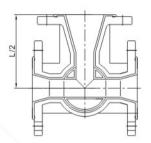
Lined Three-way Plug Valve

ALined Valve



Lined Plug Valve-Three Way





HG/T 20592 PN10

Unit:mm

DN	L	D	D1	D2	Z-d	f	b	Н	W	H0
25	160	115	85	65	4-14	2	14	98	260	-
32	180	140	100	78	4-18	3	16	101	260	-
40	200	150	110	85	4-18	3	16	128	320	-
50	230	165	125	100	4-18	3	16	128	320	-
65	290	185	145	120	4-18	3	18	135	320	-
80	310	200	160	135	8-18	3	20	164	400	322
100	350	220	180	155	8-18	3	20	178	400	332
125	400	250	210	185	8-18	3	22	205	-	385
150	480	285	240	210	8-23	3	24	220	-	405

HG/T 20592 PN16

25	160	115	85	65	4-14	2	14	98	260	-
32	180	140	100	78	4-18	3	16	101	260	-
40	200	150	110	85	4-18	3	16	128	320	-
50	230	165	125	100	4-18	3	16	128	320	-
65	290	185	145	120	4-18	3	18	135	320	5
80	310	200	160	135	8-18	3	20	164	400	322
100	350	220	180	155	8-18	3	20	178	400	332
125	400	250	210	185	8-18	3	22	205	2	385
150	480	285	240	210	8-23	3	24	220	-	405

Note: For more size please consult factory.



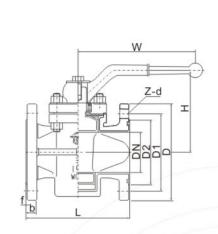
Lined Valve Lined Plug Valve

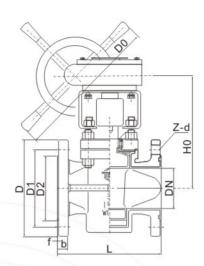


ALined Valve Lined Plug Valve



ANSI Lined Plug Valve





ASME B16.5 Class 150

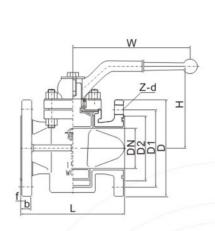
SIME	316.5 C	lass150								, L	Jnit:mm
NPS	DN	L	D	D1	D2	Z-d	f	b	Н	W	Н0
1/2	15	110	89	60.5	35	4-16	2	11	85	180	-
3/4	20	117	98	70.0	43	4-16	2	13	88	180	-
1	25	127	108	79.5	51	4-16	2	14	98	260	-
11/4	32	140	117	89.0	64	4-16	2	15.7	101	260	-
11/2	40	165	127	98.5	73	4-16	2	17.5	128	320	-
2	50	178	152	120.5	92	4-19	2	19	128	320	-
21/2	65	190	178	139.5	105	4-19	2	22	135	320	-
3	80	203	190	152.5	127	4-19	2	24	164	400	322
4	100	229	229	190.5	157	8-19	2	24	178	400	332
5	125	254	254	216.0	186	8-22	3	24	205	-	385
6	150	267	279	241.5	216	8-22	3	25.4	220	-	405
8	200	292	343	298.5	270	8-22	3	28.5	7	-	455
10	250	330	406	362.0	324	12-25	3	30	/-	-	490

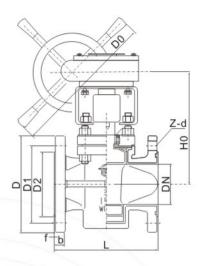
ASME B16.5 Class300

15	140	95	66.5	35	4-16	2	14	85	180	-
20	152	117	82.5	43	4-19	2	15.7	88	180	-
25	165	124	89.0	51	4-19	2	17.5	98	260	-
32	178	133	98.5	64	4-19	2	19	101	260	-
40	190	156	114.5	73	4-22	2	20.5	128	320	-
50	216	165	127.0	92	8-19	2	22.4	128	320	-
65	241	190	149.0	105	8-22	2	25.4	135	320	-
80	283	210	168.5	127	8-22	2	28.4	164	400	322
100	305	254	200.0	157	8-22	2	32	178	400	332
125	381	279	235.0	186	8-22	3	35	205	1-1	385
150	403	318	270.0	216	12-22	3	36.6	220	-	405
200	419	381	330.0	270	12-25	3	41			455
250	457	445	387.5	324	16-29	3	47.8	-	-	490
	20 25 32 40 50 65 80 100 125 150 200	20 152 25 165 32 178 40 190 50 216 65 241 80 283 100 305 125 381 150 403 200 419	20 152 117 25 165 124 32 178 133 40 190 156 50 216 165 65 241 190 80 283 210 100 305 254 125 381 279 150 403 318 200 419 381	20 152 117 82.5 25 165 124 89.0 32 178 133 98.5 40 190 156 114.5 50 216 165 127.0 65 241 190 149.0 80 283 210 168.5 100 305 254 200.0 125 381 279 235.0 150 403 318 270.0 200 419 381 330.0	20 152 117 82.5 43 25 165 124 89.0 51 32 178 133 98.5 64 40 190 156 114.5 73 50 216 165 127.0 92 65 241 190 149.0 105 80 283 210 168.5 127 100 305 254 200.0 157 125 381 279 235.0 186 150 403 318 270.0 216 200 419 381 330.0 270	20 152 117 82.5 43 4-19 25 165 124 89.0 51 4-19 32 178 133 98.5 64 4-19 40 190 156 114.5 73 4-22 50 216 165 127.0 92 8-19 65 241 190 149.0 105 8-22 80 283 210 168.5 127 8-22 100 305 254 200.0 157 8-22 125 381 279 235.0 186 8-22 150 403 318 270.0 216 12-22 200 419 381 330.0 270 12-25	20 152 117 82.5 43 4-19 2 25 165 124 89.0 51 4-19 2 32 178 133 98.5 64 4-19 2 40 190 156 114.5 73 4-22 2 50 216 165 127.0 92 8-19 2 65 241 190 149.0 105 8-22 2 80 283 210 168.5 127 8-22 2 100 305 254 200.0 157 8-22 2 125 381 279 235.0 186 8-22 3 150 403 318 270.0 216 12-22 3 200 419 381 330.0 270 12-25 3	20 152 117 82.5 43 4-19 2 15.7 25 165 124 89.0 51 4-19 2 17.5 32 178 133 98.5 64 4-19 2 19 40 190 156 114.5 73 4-22 2 20.5 50 216 165 127.0 92 8-19 2 22.4 65 241 190 149.0 105 8-22 2 25.4 80 283 210 168.5 127 8-22 2 28.4 100 305 254 200.0 157 8-22 2 32 125 381 279 235.0 186 8-22 3 35 150 403 318 270.0 216 12-22 3 36.6 200 419 381 330.0 270 12-25 3 41	20 152 117 82.5 43 4-19 2 15.7 88 25 165 124 89.0 51 4-19 2 17.5 98 32 178 133 98.5 64 4-19 2 19 101 40 190 156 114.5 73 4-22 2 20.5 128 50 216 165 127.0 92 8-19 2 22.4 128 65 241 190 149.0 105 8-22 2 25.4 135 80 283 210 168.5 127 8-22 2 28.4 164 100 305 254 200.0 157 8-22 2 32 178 125 381 279 235.0 186 8-22 3 35 205 150 403 318 270.0 216 12-22 3 36.6 220 200 419 381 330.0 270 12-25 3 41 -	20 152 117 82.5 43 4-19 2 15.7 88 180 25 165 124 89.0 51 4-19 2 17.5 98 260 32 178 133 98.5 64 4-19 2 19 101 260 40 190 156 114.5 73 4-22 2 20.5 128 320 50 216 165 127.0 92 8-19 2 22.4 128 320 65 241 190 149.0 105 8-22 2 25.4 135 320 80 283 210 168.5 127 8-22 2 28.4 164 400 100 305 254 200.0 157 8-22 2 32 178 400 125 381 279 235.0 186 8-22 3 35 205 - 150 403 318 270.0 216 12-22 3 36.6 220 - 200 419 381 330.0 270 12-25 3 41 - -

Note: For more size please consult factory.

GB Lined Plug Valve





HG/T 20592 PN10

Unit:mm

DN	L	D	D1	D2	Z-d	f	b	Н	W	Н0
15	110	95	65	45	4-14	2	14	85	180	-
20	117	105	75	55	4-14	2	14	88	180	-
25	127	115	85	65	4-14	2	14	98	260	-
32	140	140	100	78	4-18	3	16	101	260	-
40	165	150	110	85	4-18	3	16	128	320	1.5
50	178	165	125	100	4-18	3	16	128	320	1.5
65	190	185	145	120	4-18	3	18	135	320	-
80	203	200	160	135	8-18	3	20	164	400	322
100	229	220	180	155	8-18	3	20	178	400	332
125	254	250	210	185	8-18	3	22	205	-	385
150	267	285	240	210	8-23	3	24	220	12.70	405
200	292	340	295	265	8-23	3	26	-/	-	455
250	330	395	350	320	12-23	4	28	7	-	490

HG/T 20592 PN16

15	110	95	65	45	4-14	2	14	85	180	-
20	117	105	75	55	4-14	2	14	88	180	S=0
25	127	115	85	65	4-14	2	14	98	260	1-
32	140	140	100	78	4-18	3	16	101	260	0.70
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	18	135	320	-
80	203	200	160	135	8-18	3	20	164	400	322
100	229	220	180	155	8-18	3	20	178	400	332
125	254	250	210	185	8-18	3	22	205	-	385
150	267	285	240	210	8-23	3	24	220	1.5	405
200	292	340	295	265	12-23	3	26	-	-	455
250	330	405	355	320	12-26	4	28	-	-	490