Lined Gate Valve

Patent No.: ZL01210939.8
ZL201020627350.8

※Product Description

- Gate valve can be divided into rising stem gate valve, which refers to the disc doing lift movement in straight line along with the valve stem, and non-rising stem gate valve which refers to the stem nut located in the disc, when the stem rotates, the disc doing lift movement in straight line.
- Youfumi lined gate valve adopts new design structure, solving the inconvenient or jammed operation phenomenon caused by particles, fibers and medium deposition in the screw groove of common non-rising gate valve.
- Valve installation position is not subject to any restrictions.
- 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 gate valves are available as per the needs of applications in additional sizes and other than standard materials.

PFA Lined Gate Valve

Lined Gate Valve

YOUFUMI

※Technical Specification

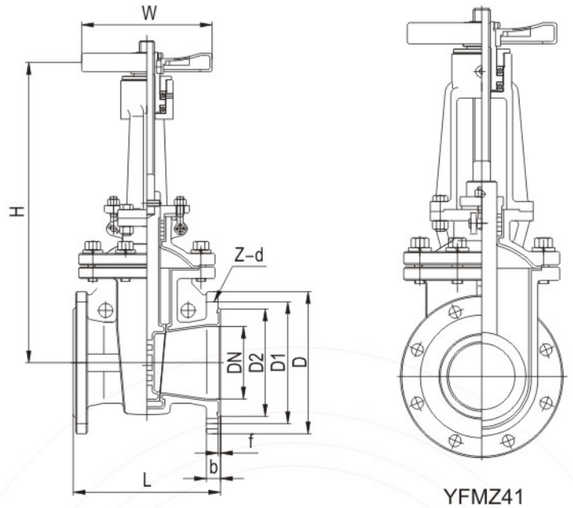
Design & Manufacture Standard		HG/T 3704, GB/T 12234		API 600
Face-to-face Dimension Standard		HG/T 3704, GB/T 12221		ASME B16.10
Flange Standard		HG/T 20592, GB/T 9119		ASME B16.5, JIS B2220
Inspection & Test Standard		GB/T 13927, JB/T 9092		API 598
Nominal Diameter		DN25~DN350		1"~14"
Nominal Pressure (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	PO: -10~80
Applicable Medium		Strong corrosive medium i.e. hydrochloric acid, Nitric acid, Hydrofluoric acid, Liquid chlorine, Sulfuric Acid and Aqua regia etc.		

Note: Test standard refers general valve standard, high pressure should be customized for processing.

※Material Specification

Name	Carbon Steel	Stainless Steel			
	C	P	R	PL	RL
Body/bonnet	WCB	CF8	CF8M	CF3	CF3M
Located clamp/Gland	WCB	CF8	CF8M	CF3	CF3M
Stem	2Cr13 SS304 SS410				
Lining material/seat	FEP、PFA、PO				
Stem nut	Copper				
Handwheel	QT400-15				
Bolt	A193 B7	A320 B8		A193 B8M	
Nut	A194 2H	A194 8		A194 8M	

Lined Gate Valve



YFMZ41

HG/T 20592 PN10

Unit:mm

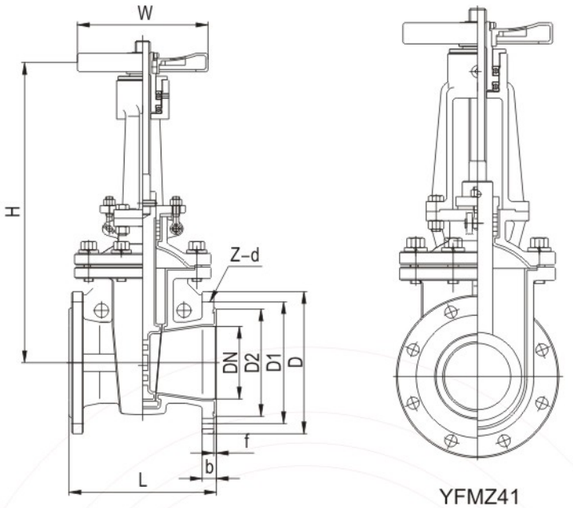
DN	L	D	D1	D2	Z-d	f	b	H	Do
25	127	115	85	65	4-14	2	14	-	160
32	140	140	100	78	4-18	3	16	-	160
40	165	150	110	85	4-18	3	16	-	180
50	178	165	125	100	4-18	3	16	295	180
65	190	185	145	120	4-18	3	18	335	220
80	203	200	160	135	8-18	3	20	402	250
100	229	220	180	155	8-18	3	20	455	280
125	254	250	210	185	8-18	3	22	605	320
150	267	285	240	210	8-23	3	24	690	360
200	292	340	295	265	8-23	3	26	727	400
250	330	395	350	320	12-23	4	28	970	450
300	356	445	400	368	12-23	4	28	1135	500

HG/T20592 PN16

25	127	115	85	65	4-14	2	14	-	160
32	140	140	100	78	4-18	3	16	-	160
40	165	150	110	85	4-18	3	16	-	180
50	178	165	125	100	4-18	3	16	295	180
65	190	185	145	120	4-18	3	18	335	220
80	203	200	160	135	8-18	3	20	402	250
100	229	220	180	155	8-18	3	20	455	280
125	254	250	210	185	8-18	3	22	605	320
150	267	285	240	210	8-23	3	24	690	360
200	292	340	295	265	12-23	3	26	727	400
250	330	410	355	320	12-26	4	28	970	450
300	356	465	410	375	12-26	4	28	1135	500

Note: For more size please consult factory.

Lined Gate Valve



YFMZ41

HG/T 20592 PN25

Unit:mm

DN	L	D	D1	D2	Z-d	f	b	H	Do
25	127	115	85	65	4-14	2	16	-	160
32	140	140	100	78	4-18	3	18	-	160
40	165	150	110	85	4-18	3	18	-	180
50	178	165	125	100	4-18	3	20	295	180
65	190	185	145	120	8-18	3	22	335	220
80	203	200	160	135	8-18	3	22	402	250
100	229	235	190	160	8-23	3	24	455	280
125	254	270	220	188	8-26	3	28	605	320
150	267	300	250	218	8-26	3	30	690	360
200	292	360	310	278	12-26	3	34	727	400
250	330	425	370	332	12-30	4	36	970	450
300	356	485	430	390	16-30	4	40	1135	500

ASME Class150

1	127	108	79.5	51	4-16	2	14	-	160
11/4	140	117	89.0	64	4-16	3	16	-	160
11/2	165	127	98.5	73	4-16	3	17.5	-	180
2	178	152	120.5	92	4-19	3	19	295	180
21/2	190	178	139.5	105	4-19	3	22	335	220
3	203	190	152.5	127	4-19	3	24	402	250
4	229	229	190.5	157	8-19	3	24	455	280
5	254	254	216.0	186	8-22	3	24	605	320
6	267	279	241.5	216	8-22	3	25	690	360
8	292	343	298.5	270	8-22	3	28	727	400
10	330	406	362.0	324	12-25	4	30	970	450
12	356	483	432.0	381	12-25	4	32	1135	500