

Technical Requirements

1. Design & manufacture as to: API 600
2. Face-to-face dimension standard as to: ASME B16.10
3. Flange dimension conforms as to: ASME B16.5
4. Testing & Inspection as to: API 598
5. Pressure-temperature conforms as to: ASME B16.34
6. Corrosion resistance standard conforms as to: NACE MR-01-75
7. Visual Examination conforms as to: 100% MSS SP-55

1. Nondestructive Testing		
1.1 Pressure Test	Mandatory	Yes
1.2 Chemical Composition Certification (PMI)	Mandatory	Yes
1.3 Penetrant Test	Mandatory	Yes
1.4 Magnetic Particle Test	Mandatory	Yes

Performance Standard

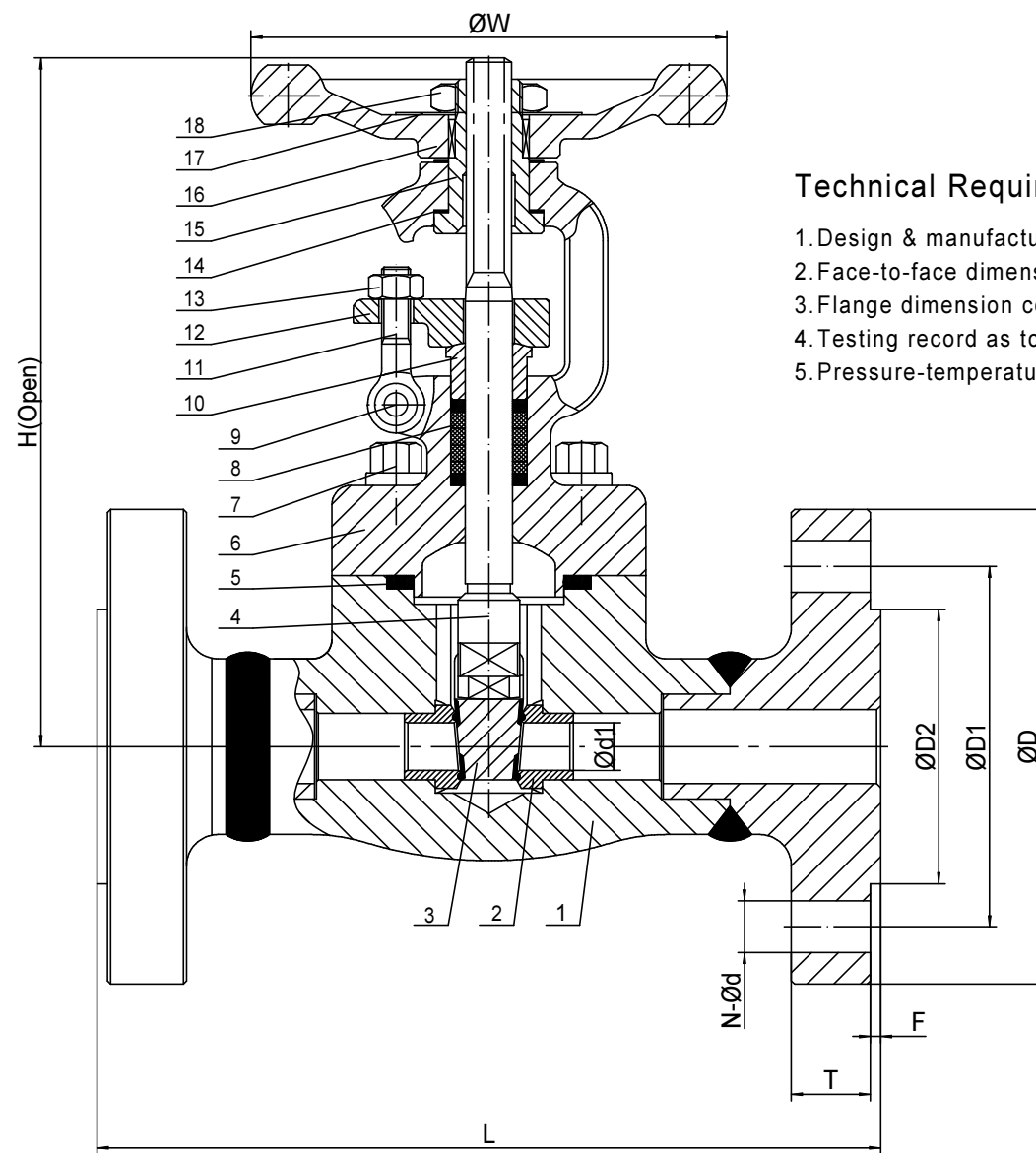
Nominal Bore	NPS	1"~8"
Nominal Pressure	Class	150 LB
Pressure Test		
Shell Test	3.0	Mpa
Seal Test	2.2	
Backseat Test	2.2	
Air Test	0.6	
Working Temperature	-29°C ~ +425°C	
Suitable Medium	Water. Oil. Gas. Steam. etc	

*Torque without safety factor. Safety factor of 1.25-1.5 is recommended

Size		Outline			Flange Size						Weight	Torque
NPS	DN	L	H	ØW	ØD	ØD1	ØD2	N-Ød	T	F	Kg	N*M
1"	25	127	235	Ø150	Ø110	Ø79.4	Ø51	4-Ø16	13	2	8	8.5
1 1/2"	40	165	298	Ø180	Ø125	Ø98.4	Ø73	4-Ø16	16	2	10	12
2"	50	178	323	Ø200	Ø150	Ø120.7	Ø92	4-Ø19	17.5	2	13	17.3
2 1/2"	65	191	355	Ø200	Ø180	Ø139.7	Ø105	4-Ø19	21	2	18	19.3
3"	80	203	383	Ø250	Ø190	Ø152.4	Ø127	4-Ø19	22.5	2	22	26
4"	100	229	457	Ø300	Ø230	Ø190.5	Ø157	8-Ø19	22.5	2	35	38.3
5"	125	254	632	Ø300	Ø255	Ø215.9	Ø186	8-Ø22	22.5	2	45	45.7
6"	150	267	635	Ø300	Ø280	Ø241.3	Ø216	8-Ø22	24	2	58	63.5
8"	200	292	762	Ø350	Ø345	Ø298.5	Ø270	8-Ø22	27	2	95	98.4

21	Locking Nut	A194 8M	
20	Nameplate	SS304	
19	Handwheel	A47	
18	Locking Nut	A194 8M	
17	Sealant Injection	Brass	
16	Stem Nut	Brass	
15	Nut	A194 8M	
14	Packing Gland	A351 CF3M	
13	Packing Bushing	A182 F316L	
12	Eye-Bolt	A193 B8M	
11	Pin	SS316L	
10	Packing	Graphite	
9	Back Seat	SS316L	
8	Bonnet	A351 CF3M	
7	Gasket Seal	SS316L+Graphite	
6	Bolt	A193 B8M	
5	Nut	A194 8M	
4	Stem	A182 F316L	
3	Body	A351 CF3M	
2	Seat	SS316L	
1	Wedge	A351 CF3M	

No.	Name	Material	Remark
TAG NO. "			
Design	Approve	Graphics	
Technics	Date	Describe	Gate Valve OS&Y
Check		Model	NPS 1"~8" Class 150LB RF SS316L



Technical Requirements

1. Design & manufacture as to: API 602
2. Face-to-face dimension standard as to: ASME B16.10
3. Flange dimension conforms as to: ASME B16.5
4. Testing record as to: API 598
5. Pressure-temperature conforms as to: ASME B16.34

Performance Standard

Nominal Bore	NPS	1/2"~2"
Nominal Pressure	Class	150 LB
Pressure Test		
Shell Test	3.0	Mpa
Seal Test	2.2	
Backseat Test	2.2	
Air Test	0.6	
Working Temperature	-29°C ~ +425°C	
Suitable Medium	Water. Oil. Gas. Steam. etc	

1.	Nondestructive Testing		
1.1	Pressure Test	Mandatory	Yes
1.2	Chemical Composition Certification (PMI)	Mandatory	Yes
1.3	Penetrant Test	Mandatory	Yes
1.4	Magnetic Particle Test	Mandatory	Yes

18	Locking Nut	A194 8	
17	Nameplate	SS304	
16	Handwheel	A47	
15	Stem Nuts	13Cr	
14	Thrust Washer	GR.B	
13	Nuts	A194 8M	
12	Packing Gland	A182 F316L	
11	Eye-Bolt	A193 B8M	
10	Packing Bushing	A182 F316L	
9	Pin	SS316L	
8	Packing	Graphite	
7	Bolt	A193 B8M	
6	Bonnet	A182 F316L	
5	Gasket Seal	SS316L+Graphite	
4	Stem	A182 F316L	
3	Wedge	A182 F316L	
2	Seat	A182 F316L	
1	Body	A182 F316L	

Size		Bore	Outline			Flange Size					Weight	
NPS	DN	Ød1	L	H	ØW	ØD	ØD1	ØD2	N-Ød	T		F
1/2"	15	10	108	180	Ø100	Ø90	Ø60.3	Ø35	4-Ø16	10	2	3 Kg
3/4"	20	12.7	117	182	Ø100	Ø100	Ø69.9	Ø43	4-Ø16	11.5	2	3.5 Kg
1"	25	18	127	216	Ø125	Ø110	Ø79.4	Ø51	4-Ø16	13	2	5.5 Kg
1 1/4"	32	23	140	240	Ø160	Ø115	Ø88.9	Ø64	4-Ø16	14.5	2	6.8 Kg
1 1/2"	40	28.5	165	246	Ø160	Ø125	Ø98.4	Ø73	4-Ø16	16	2	9.3 Kg
2"	50	36	178	283	Ø180	Ø150	Ø120.7	Ø92	4-Ø19	17.5	2	14.5 Kg

No.	Name	Material	Remark
TAG NO.:			
		PTV Solutions	
Design		Approve	Graphics Genral View
Technics		Date	Describe Gate Valve
Check			Model NPS 1/2"~2" Class 150LB RF F316L/F316L