



### 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	300 LB
<b>Pressure Test</b>		
Shell Test	7.5	Mpa
Seal Test	5.5	
Backseat Test	5.5	
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 2H	
17	Nameplate	SS304	
16	Handwheel	A47	
15	Stem Nuts	13Cr	
14	Thrust Washer	GR.B	
13	Nuts	A194 2H	
12	Packing Gland	ASTM A105	
11	Eye-Bolt	A193 B7	
10	Packing Bushing	13Cr	
9	Pin	13Cr	
8	Packing	Graphite	
7	Bolt	A193 B7	
6	Bonnet	ASTM A105	
5	Gasket Seal	SS304+Graphite	
4	Stem	A182 F6a	
3	Wedge	13Cr	
2	Seat	13Cr+Stellite 6	
1	Body	ASTM A105	

Size		Bore	Outline			Flange Size						Weight
NPS	DN	Ød1	L	H	ØW	ØD	ØD1	ØD2	N-Ød	T	F	
1/2"	15	10	140	166	Ø100	Ø95	Ø86.7	Ø35	4-Ø16	13	2	3.5 Kg
3/4"	20	12.7	152	169	Ø100	Ø115	Ø82.6	Ø43	4-Ø19	14.5	2	4.3 Kg
1"	25	18	165	193	Ø125	Ø125	Ø88.9	Ø51	4-Ø19	16	2	6.8 Kg
1 1/4"	32	23	178	230	Ø160	Ø135	Ø98.4	Ø64	4-Ø19	17.5	2	11 Kg
1 1/2"	40	28.5	190	246	Ø160	Ø155	Ø114.3	Ø73	4-Ø22	19.5	2	12.2 Kg
2"	50	36	216	283	Ø180	Ø165	Ø127	Ø92	8-Ø19	21	2	16.5 Kg

No.	Name	Material	Remark
TAG NO.:			
		<b>PTV</b> Solutions	
Design		Approve	Graphics Genral View
Technics		Date	Describe Gate Valve
Check			Model NPS 1/2"~2" Class 300LB RF Trim:08#