



### Applications

- Refineries, power stations, process and general industry
- For water, steam, gas, oil, and other media
- Other applications on request

### Operating Data

- Maximum allowable pressure 105 bar
- Maximum allowable temperature 816°C

### Materials

- ASTM A105 up to 800°F (425°C)
- ASTM A182 F304 up to 1500°F (816°C)
- ASTM A182 F316 up to 1500°F (816°C)

### Trim Materials

- Trim 1 13Cr/13Cr
- Trim 2 304/304
- Trim 5 Stellite/Stellite
- Trim 8 Stellite/13Cr
- Trim 10 316/316

### Design

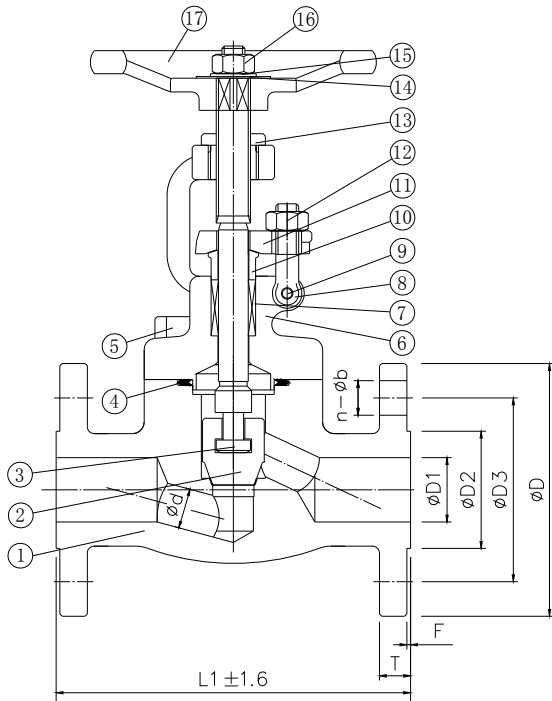
- Design per API 602
- Pressure/temperature rating per ASME B16.34
- End-end dimension per ASME B16.10
- Flange dimensions per ASME B16.5
- Testing per API 598
- Bolted bonnet
- Outside screw and yoke
- Rotating stem

### Variants on request

- Other material and trim
- Butt weld execution

### On all enquiries/orders please specify

1. Valve type
2. ANSI pressure class
3. Size
4. Design pressure
5. Design temperature
6. Differential pressure-shut off
7. Flow medium
8. Material of construction
9. Trim material (API trim number)
10. Type of end connection
11. Variants

**Dimension**

**150 Class**

NPS	L1	ød	øD1	øD2	øD3	øD	T	F	n-øb
½"	108	10	15	35	60.5	89	11.5	1.6	4-16
¾"	117	13	20	43	70	98.5	13	1.6	4-16
1"	127	18	25	51	79.3	108	14.5	1.6	4-16
1¼"	140	22	32	64	89	117	16	1.6	4-16
1½"	165	30	40	73	98.6	127	17.5	1.6	4-16
2"	203	35	50	92	120.7	152	19.5	1.6	4-19

**300 Class**

NPS	L1	ød	øD1	øD2	øD3	øD	T	F	n-øb
½"	152	10	15	35	66.5	95	14.5	1.6	4-16
¾"	178	13	20	43	82.5	117	16	1.6	4-19
1"	203	18	25	51	89	124	18	1.6	4-19
1¼"	216	22	32	63	98.5	133	19	1.6	4-19
1½"	229	30	40	73	114.3	156	21	1.6	4-22.5
2"	267	35	50	92	127	165	22.5	1.6	8-19

**600 Class**

NPS	L1	ød	øD1	øD2	øD3	øD	T	F	n-øb
½"	165	10	15	35	66.5	95	14.5	6.4	4-16
¾"	190	13	20	43	82.5	117	16	6.4	4-19
1"	216	18	25	51	89	124	18	6.4	4-19
1¼"	229	22	32	64	98.5	133	21	6.4	4-19
1½"	241	30	40	73	114.3	156	22.5	6.4	4-22
2"	292	35	50	92	127	165	25.5	6.4	8-19

**Valve Materials**

Part No.	Part Name	A105	F304	F316
1	Body	A105+STL6	A182-F304	A182-F316
2	Disc	A276-420	A276-304	A276-316
3	Stem	A276-410	A276-304	A276-316
4	Gasket	304+Graphite	316+Graphite	316+Graphite
5	Bonnet Bolt	A193-B7	A193-B8	A193-B8M
6	Bonnet	A105	A182-F304	A182-F316
7	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite
8	Gland Bolt	A193-410	A193-304	A193-304
9	Gland Bolt Pin	A276-410	A276-304	A276-304
10	Packing Flange	A276-410	A276-304	A276-304
11	Gland Flange	A105	304	304
12	Nut	A194-2H	A194-8	A194-8M
13	Stem Nut		A276-410	
14	Washer		A276-410	
15	Nameplate		Stainless Steel	
16	Hand Wheel Nut		A194-2H	
17	Hand Wheel		A197	

Note. At temperatures above 538°C use only when the carbon content is 0.04% or higher.

**Trim Materials**

Part Name	Trim 1 13Cr/13Cr	Trim 2 304/304	Trim 5 Stellite/Stellite	Trim 8 Stellite/13Cr	Trim 10 316/316
Wedge Face	13Cr	304 Stainless Steel	Stellite	13Cr	316 Stainless Steel
Body Sealing Face	13Cr	304 Stainless Steel	Stellite	Stellite	316 Stainless Steel