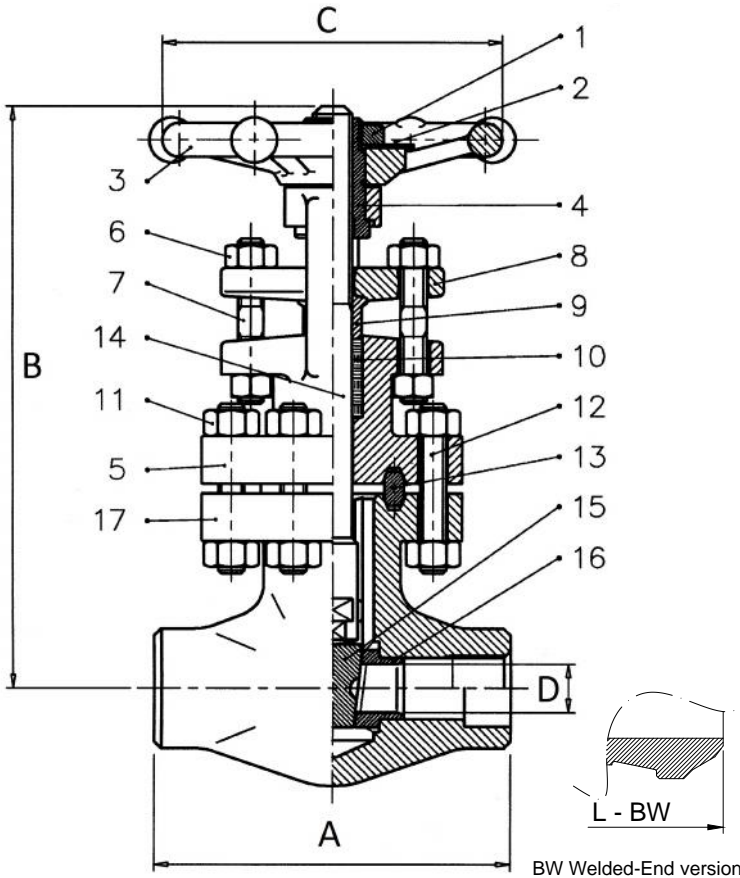


2500 Lbs

DT-FGV-005



### BASIC DESIGN STANDARDS

**Basic Design** ISO 15761 – API 602

**Wall Thickness / Pressure / Temperature** According to ANSI B16.34

**Ends** SW according to ANSI

**Dimensions** B16.34 / NPT-F according to ASME B1.20

**Bore** Full

### TEST PRESSURE TO API 598 bar

Class	Shell (water)	Seat (water)	Seat (air)
2500	638	474	6.0

### BILL OF MATERIALS STANDARD ACCORDING TO ASTM

No	Part Name	Carbon Steel		Alloy Steel	Stainless Steel
		A105/F6	LF2/304	F11/F6 HF	SS316
01	Handwheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	A194 Gr.8
02	Name Plate	Aluminium	Aluminium	Aluminium	INOX
03	Handwheel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel + Rislant
04	Yoke Sleeve	AISI 416	AISI 416	AISI 416	AISI 416
05	Bonnet	ASTM A105N	ASTM A350 LF2	ASTM A182 F11	ASTM A182 F316L
06	Gland Nuts	A194 Gr. 2H	A194 Gr. 2H	A194 Gr. 2H	A194 Gr.8
07	Gland Studs	AISI 410	AISI 410	AISI 410	A193 B8M
08	Gland Flange	ASTM A105N	ASTM A350 LF2	ASTM A182 F11	ASTM A316
09	Packing Gland	A479 TP316	A479 TP316	A479 TP316	A479 TP316L
10	Packing	Graphoil	Graphoil	Graphoil	Graphoil
11	Bolts B/B	A193 B7	A193 B7	A193 B7	A193 B8
12	Studs B/B	A194 Gr. 2H	A194 Gr. 2H	A194 Gr. 2H	A194 Gr.8
13	Ring Joint B/B	SOFT IRON	SOFT IRON	SOFT IRON	SOFT IRON
14	Stem	A479 TP410	A479 TP304	A479 TP410	A479 TP316L
15	Wedge	A479 TP410	A479 TP304	A479 TP410 + STL.6	A479 TP316L
16	Seat Ring	A479 TP410	A479 TP304	A479 TP410 + STL.6	A479 TP316L
17	Body	ASTM A105N	ASTM A350 LF2	ASTM A182 F11	ASTM A182 F316L

\* Recommended Spare Parts

## 2500 Lbs

**FORGED STEEL GATE VALVES CLASS 2500 LBS**

**ANSI CLASS 2500**

**PRESSURE – TEMPERATURE RATINGS TO ANSI B16.34**

Temperature °C	WORKING PRESSURE (bar.g)		
	ASTM A105N (a)	ASTM A182 F11 (b)	ASTM A182 SS316 (c)
-29 to 38	425.5	431.0	413.8
93	387.9	431.0	355.9
149	377.2	414.8	321.4
204	364.1	398.3	295.2
260	344.1	382.1	274.5
316	314.5	347.6	259.3
343	308.6	338.3	255.2
371	306.2	326.2	249.7
399	289.7	305.5	245.5
427	236.6	291.7	242.8
454	153.8	280.0	240.0
482	98.6	258.3	238.6
510	59.3	183.1	222.1
538	29.7	124.1	201.0
566		82.8	197.6
593		55.2	175.5
621		35.5	135.9
649		21.7	106.6

(a) Permissible, but not recommended for prolonged usage above 427 °C  
 (b) Permissible, but not recommended for prolonged usage above 594 °C  
 (c) For welding end valves only: Flanged end ratings terminate at 538°C

SIZE (Full Bore)		DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/4"	8	110	205	100	8	5.5
3/8"	10	110	205	100	10	5.5
1/2"	15	110	210	100	10	5.5
3/4"	20	120	255	120	14	8.5
1"	25	130	265	140	18	10.2
1-1/4"	32	210	365	170	24	26
1-1/2"	40	210	375	170	29	26
2"	50	240	390	260	36.5	37