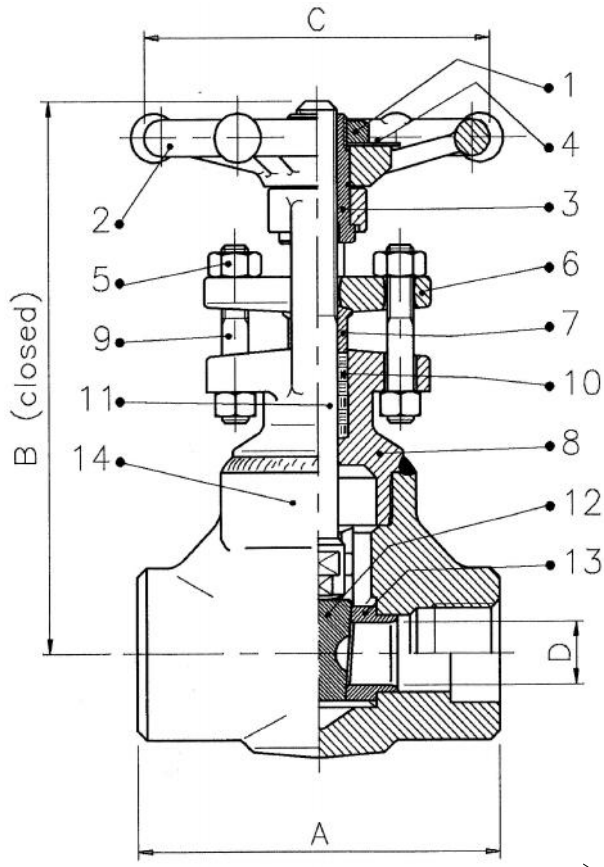


# FORGED GATE VALVES WELDED BONNET

**2500 Lbs**

**DT-FGV-009**



BW Welded-End version

**BASIC DESIGN STANDARDS**

**Basic Design** ISO 15761 – API602

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

**Ends Dimensions** SW according to ANSI 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	637	467	6.0

**BILL OF MATERIALS STANDARD ACCORDING TO ASTM**

No	Part Name	A105/F6	F316/316
1	Handwheel Nut	Carbon Steel	A194 Gr.8
2	Handwheel	Carbon Steel	Carbon Steel + Rislant
3	Yoke Sleeve	AISI 416	AISI 416
4	Name Plate	Aluminium	INOX
5	Gland Nuts	A194 Gr.2H	A194 Gr.8
6	Gland Flange	ASTM A105	ASTM A182 F316
7	Packing Gland	A479 TP316	A479 TP316L
8	Bonnet	ASTM A105	ASTM A182 F316
9	Gland Studs	AISI 410	A193 B8M
10	Packing	Graphoil	Graphoil
11	Stem	A479 TP410	A479 TP316L
12	Wedge	A479 TP410	A479 TP316
13	Seat Rings	A479 TP410	A479 TP316
14	Body	ASTM A105N	ASTM A182 F316L

\* Recommended Spare Parts

Other materials available on request

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# FORGED GATE VALVES WELDED BONNET

**2500 Lbs**

ANSI CLASS 2500		PRESSURE – TEMPERATURE RATINGS TO ANSI B16.34	
Temperature °C	WORKING PRESSURE (bar.g) ASTM A105N (a)		
	A105	F316	
-29 to 38	425.5	413.8	
93	387.9	355.9	
149	377.2	321.4	
204	364.1	295.2	
260	344.1	274.5	
316	314.5	259.3	
343	308.6	255.2	
371	306.2	249.7	
399	289.7	245.5	
427	236.6	242.8	
454	153.8	240.0	
482	98.6	238.6	
510	59.3	222.1	
538	29.7	201.0	
566	-	197.6	
593	-	175.5	
621	-	135.9	
649	-	106.6	
677	-	84.8	
704	-	66.9	
732	-	55.2	
760	-	43.4	
788	-	33.4	
816	-	23.8	

(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 2500# (Full Bore)		DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/4"	8	110	175	100	8	3.5
3/8"	10	110	175	100	10	3.5
1/2"	15	110	175	100	10	3.5
3/4"	20	120	210	120	14	5.5
1"	25	130	240	140	18	7.5
1-1/4"	32	130	280	170	24	10
1-1/2"	40	210	310	170	29	16
2"	50	240	355	260	36.5	25

**FORGED STEEL GATE VALVES CLASS 2500#**