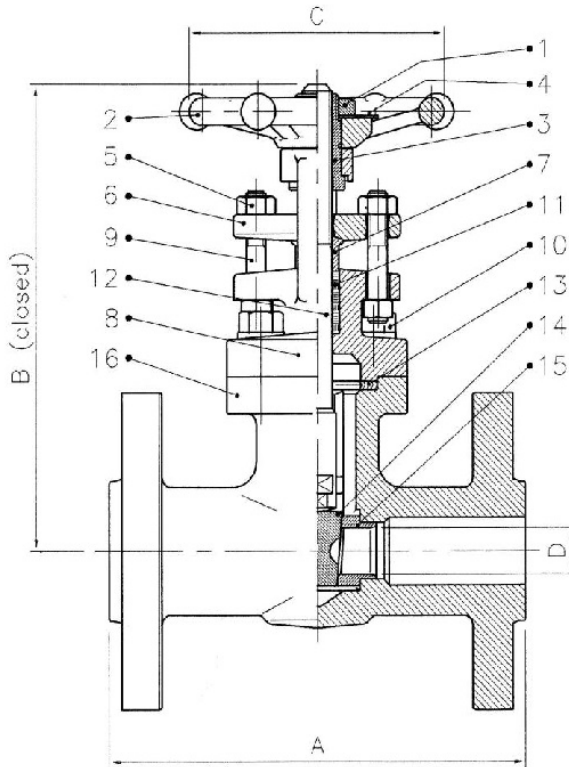


# FORGED GATE VALVES FLANGED ENDS

150 – 300 – 600 Lbs

DT-FGV-002



## BASIC DESIGN STANDARDS

<b>Basic Design</b>	ISO 15761 – API602
<b>Wall Thickness / Pressure / Temperature</b>	According to ANSI B16.34
<b>Ends Type</b>	RF according to ASME
<b>Dimensions</b>	ANSI B16.5
<b>Bore</b>	Reduced & Full

## TEST PRESSURE TO API 598 bar

Rating	Shell (water)	Seat (water)	Seat (air)
150	30	22	6.0
300	77	57	6.0
600	153	113	6.0
1500	382	280	6.0
2500	637	467	6.0

## BILL OF MATERIALS STANDARD ACCORDING TO ASTM

No	Part Name	Carbon Steel		Stainless Steel
		A105/F6	LF2/304	SS316
01	Handwheel Nut	Carbon Steel	Carbon Steel	A194 Gr.8
02	Handwheel	Carbon Steel	Carbon Steel	Carbon Steel + Rilsan
03	Yoke Sleeve	AISI 416	AISI 416	AISI 416
04	Name Plate	Aluminium	Aluminium	INOX
05	Gland Nuts	A194 Gr. 2H	A194 Gr. 2H	A194 Gr.8
06	Gland Flange	ASTM A105N	ASTM A350 LF2	ASTM A316
07	Packing Gland	A479 TP316	A479 TP316	A479 TP316L
08	Bonnet	ASTM A105N	ASTM A350 LF2	ASTM A182 F316L
09	Gland Studs	AISI 410	AISI 410	A193 B8M
10	Bolts B/B	A193 B7	A193 B7	A193 B8
11*	Packing	Graphoil	Graphoil	Graphoil
12	Stem	A479 TP410	A479 TP304	A479 TP316L
13*	Gasket B/B	F316 + Graphoil	F316 + Graphoil	F316 + Graphoil
14	Wedge	A479 TP410	A479 TP304	A479 TP316L
15	Seat Ring	A479 TP410	A479 TP304	A479 TP316L
16	Body	ASTM A105N	ASTM A350 LF2	ASTM A182 F316L

\* Recommended Spare Parts

# FORGED GATE VALVES FLANGED ENDS

150 – 300 – 600 Lbs

SIZE (Reduced Bore)		#150 RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	108	173	80	10	3.1
3/4"	20	118	180	80	14	4.0
1"	25	127	205	100	18	5.7
1-1/2"	40	165	260	140	29.5	10.6
2"	50	178	296	140	36.5	15.4

SIZE (Reduced Bore)		300# RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	140	174	80	10	4.0
3/4"	20	152.5	180	80	14	5.4
1"	25	165	205	100	18	6.5
1-1/2"	40	191	265	140	29.5	13.0
2"	50	216	296	170	36.5	17.4

SIZE (Reduced Bore)		600# RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	165	145	80	10	4.2
3/4"	20	191	155	80	14	5.6
1"	25	216	185	100	18	7.2
1-1/2"	40	241	248	140	29.5	14.5
2"	50	292	273	170	36.5	18.0

**ANSI CLASS**  
150 – 300 - 600

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

Temperature °C	WORKING PRESSURE (bar.g)					
	ASTM A105N (a)			ASTM A182 SS316 (c)		
	150#	300#	600#	150#	300#	600#
-29 to 38	19.7	51.0	102.1	19.0	49.7	99.3
93	17.9	46.6	93.1	16.2	42.8	85.5
149	15.9	45.2	90.7	14.8	38.6	77.2
204	13.8	43.8	87.6	13.4	35.5	70.7
260	11.7	41.4	82.8	11.7	33.1	65.9
316	9.7	37.9	75.5	9.7	31.0	62.1
343	8.6	36.9	74.1	8.6	30.7	61.4
371	7.6	36.9	73.4	7.6	29.7	60.0
399	6.6	34.8	69.7	6.6	29.3	59.0
427	5.5	28.3	56.9	5.5	29.0	58.3
454	4.5	18.6	36.9	4.5	29.0	57.6
482	3.4	11.7	23.8	3.4	28.6	57.2
510	2.4	7.2	14.1	2.4	26.6	53.4
538	1.4	3.4	7.2	1.4	24.1	48.3

- (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

**FORGED STEEL GATE VALVES R.B. CLASS 150-300-600**

## FORGED GATE VALVES FLANGED ENDS

150 – 300 – 600 Lbs

SIZE (Standard Bore)		#150 RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	108	180	80	14	3.2
3/4"	20	118	185	100	18	4.2
1"	25	127	210	120	24	5.8
1-1/2"	40	165	270	140	36.5	11
2"	50	178	300	170	48	16

SIZE (Standard Bore)		#300 RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	140	180	80	14	4.1
3/4"	20	153	188	100	18	5.5
1"	25	165	210	120	24	6.8
1-1/2"	40	191	270	170	36.5	13.5
2"	50	216	312	170	48	17.5

SIZE (Standard Bore)		#600 RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	165	180	80	14	4.5
3/4"	20	191	205	100	18	5.8
1"	25	216	232	120	24	7.5
1-1/2"	40	241	278	140	36.5	16
2"	50	292	327	170	48	23

FORGED STEEL GATE VALVES F.B. CLASS 150-300-600 RF