

# PGTV

## GATE VALVE



### DESCRIPTION:

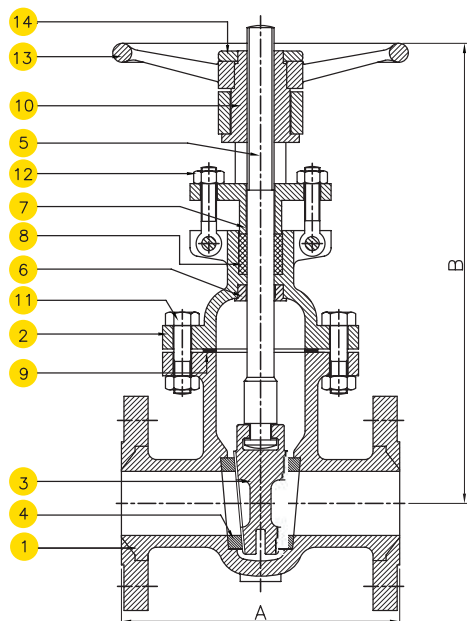
Pennant Gate Valves conform to API 600/API 602/ API 603/ ASME B16.34 and are provided with smooth machined full bores. Full opening of the wedge eliminates

additional pressure drop across the valve. Seal welded seat rings ensure perfect tightness for a longer period of services.

### STANDARD:

DESIGN STANDARD	API 600/API 602/API 603/ ASME B16.34
INSPECTION AND TESTING STANDARD	API 598
FACE TO FACE	AS PER ANSI B 16.10/MANUFACTURING STANDARD
END CONNECTIONS	FLANGED ENDS - ANSI B16.5   BUTTWELD ENDS - ANSI B16.25 SOCKETWELD ENDS - ANSI B16.11   SCREWED ENDS- ASME B1.20.1
SIZE RANGE	DN15 to DN300
PRESSURE RATING	#150, #300, #800 & #1500
OPERATION	HAND WHEEL/GEAR/PNEUMATIC CYLINDER/ELECTRICAL ACTUATOR OPERATED
TRIM CONFIGURATION	STANDARD - API 600 No. 1 OPTIONAL - No. 2,4,5,8,10

### CAST GATE VALVES (#150 & #300)



### MATERIAL

NO.	PART NAME	MATERIAL	QTY.
1.	BODY	ASTM A216 Gr. WCB	1
2.	BONNET	ASTM A216 Gr. WCB	1
3.	WEDGE	ASTM A216 Gr. WCB WITH 13% Cr. STEEL DEPOSITED - MIN 250 BHN	1
4.	SEAT RING	AISI 410(13% Cr. STEEL) - MIN 300 BHN	2
5.	STEM	AISI 410(13% Cr. STEEL)	1
6.	BACK SEAT BUSH	AISI 410(13% Cr. STEEL)	1
7.	GLAND BUSH	AISI 410	1
8.	GLAND PACKING	GRAFOIL - TOP & BOTTOM BRAIDED RINGS & MIDDLE MOULDED RING	1 set
9.	GASKET	GRAPHITE ASBESTOS/NON CAF	1
10.	YOKE SLEEVE	CARBON STEEL/ D2	1
11.	BONNET STUD/NUT	ASTM A193 Gr. B7/ASTM A194 Gr. 2H	*
12.	EYE BOLT & NUT	ASTM A193 Gr. B7/ASTM A194 Gr. 2H	2/2
13.	HAND WHEEL	S. G. IRON/CAST IRON	1
14.	WHEEL NUT	M. S.	1
*		VARIES WITH SIZE	

### DIMENSION TABLE:

Size	#150				#300		
	A		B	APPROX. WT.	A	B	APPROX. WT.
RF	BW						
25	127	127	95	7.5	165	257	11
40	165	165	112	13	190	256	18
50	178	216	116	15	216	265	20
65	191	241	150	25	241	350	35
80	203	282	141	32	283	400	48
100	229	305	184	47	305	502	58
125	254	381	189	52	381	635	65
150	267	403	240	63	403	635	80
200	292	419	289	126	419	662	140
250	330	457	245	214	457	735	250
300	356	502	297	253	502	755	280

All Dimensions are in mm. weights in kg.

## FORGED GATE VALVE (#800 & #1500)

### MATERIAL:

NO.	PART NAME	MATERIAL	QTY.
1.	BODY	ASTM A105	1
2.	BONNET	ASTM A105	1
3.	WEDGE	ASTM 410 (13% Cr. STEEL) - MIN 250 BHN	1
4.	SEAT RING	ASTM 410 (13% Cr. STEEL) - MIN 300 BHN	2
5.	STEM	ASTM 410 (13% Cr. STEEL)	1
6.	GLAND FLANGE	AISI A105	1
7.	GLAND BUSH	ASTM 410 (13% Cr. STEEL)	1
8.	GLAND PACKING	GRAFOIL - TOP & BOTTOM BRAIDED RINGS & MIDDLE MOULDED RING	1 set
9.	GASKET	S.S. SPIRAL WOUND WITH GRAFOIL	1
10.	YOKE SLEEVE	CARBON STEEL/D2	1
11.	BONNET BOLT	ASTM A193 Gr. B7	4
12.	EYE BOLT & NUT	ASTM A193 Gr. B7/ASTM A194 Gr. 2H	2/2
13.	HAND WHEEL	S. G. IRON/MALLEABLE IRON	1
14.	HAND WHEEL NUT	M. S.	1

### DIMENSION TABLE:

SIZE	A	B	APPROX. WT.
15	85	123	1.9
20	92	136	2.5
25	105	144	3.2
40	125	182	7.9
50	135	204	10.5

### FEATURES OF GATE VALVES

- Valve provided with back seating arrangement
- Solid & flexible wedges are available
- Flanged Ends/Butt Weld Ends/Socket Weld Ends/Screwed Ends are available
- Bi-directional shut-off
- Optional electrical gear & Pneumatic actuator operated
- Outside screw and yoke construction
- Hardness difference between seat ring & wedges is min. 50 BHN

