



Xmas Tree Gate Valve [GXT]

Standard: API 6A

DN 50 (2 1/16) ÷ DN 100 (4 1/16)
Working pressure 2000 ÷ 5000 psi

Design

- Through-conduit and bi-directional
- Casted body and bonnet
- Bolted bonnet (BB)
- Inside screw, non-rising back-seating stem (IS&NRS)
- Forged, one-piece, guided solid wedge
- Safe and absolute metal/metal sealing
- The interior of the valve filled with grease for easier manipulation and anti-freezing water sediment
- Flanged ends according to : API Spec. 6A tip 6B-Ring Joint
- Threaded end according to API Std. 5B

Applications

- Valves is used for equipping assemblies and pipeline on whels in exploitation of naphta, earth gas and water in temperature range from -60°C up to 121°C.

Media

- Depending on the gate valves materials for: water, gas, oil (WOG) and other non-aggressive media

Pressure and temperature

- Working pressures up to 5000 psi
- Temperature up to 121°C

Materials

- Cr-Mo and stainless steels

Advantages

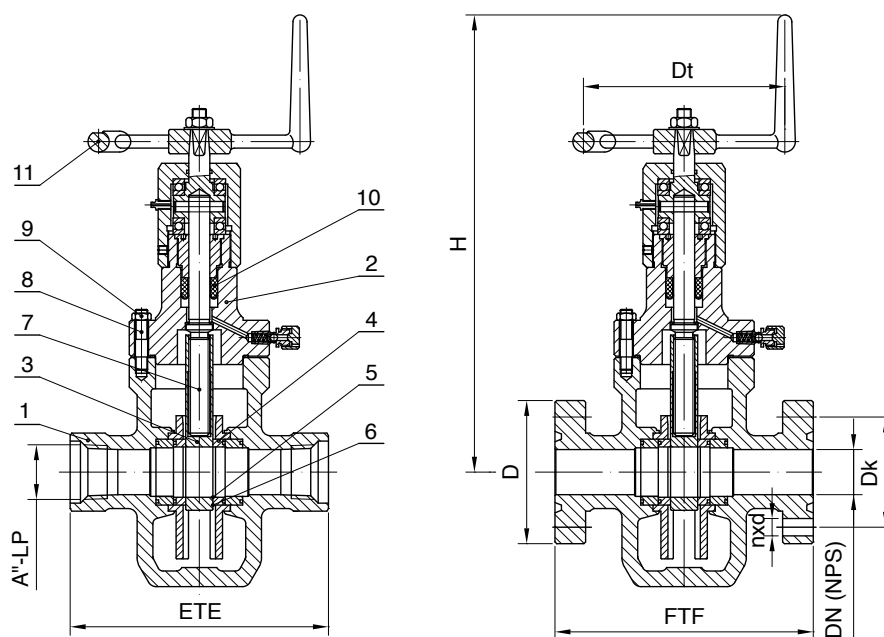
- Long service life
- Respect to emission standards
- Zero leakage also on the low pressures
- Easy handling and maintenance
- Stem packing replacement in working conditions

Options

- Flanges and welding ends according to: GOST, DIN, itd.
- Other paint finishes are available upon customer's request
- Gate valve complete with counter flanges, bolting and gaskets.

Testing

- Every produced valve was tested according to API Spec. 6A



Drawing D.5.1 Parts and dimensions

List of materials

Table D.5.1

Item	Part	Class of material according to API 6A Spec.	
		AA,BB,DD ^{a)} , EE ^{a)}	CC,FF ^{a)}
		Temperature Class according to API 6A Spec.	
		K ÷ V (-60°C up to 121°C)	
1	Body	A487 4A	A217 CA 15
2	Bonnet	A487 4A	A217 CA 15
3	Gate	A182 F6a	
4	Body seat ring	A182 F6a	
5	Trim	Body Seats	HF -nitrided
6		Gate Seats	HF -nitrided
7		Stem	A276 T420 -nitrided
8	Stud Bolts	A193 B7	A193 B7M ^{a)}
9	Nuts	A194 2H	A194 2HM ^{a)}
9	Stem Packing	PTFE + VITON	
10	Handwheel	cast steel	

a) In compliance with NACE MR 0175

[GXT] Dimensions

Table D.5.2

Xmas Tree Gate Valve 2000 psi (140 bar)											
DN (NPS)	A	D	Dk	H	d	n	ETE	FTF	Dt	FTF	ETE
		(mm)								(kg)	
50(2 1/16). 2000 psi	2	165	127	486	19	8	229	295	230	53	44
65(2 9/16). 2000 psi	2 1/2	190	149,2	578	22	8	264	333	280	94	80
80(3 1/8). 2000 psi	3	210	168,3	594	22	8	292	359	380	124	106
100(4 1/16). 2000 psi	4	275	215,9	637	25,4	8	320	435	380	203	171
Xmas Tree Gate Valve 3000÷5000 psi (210÷350 bar)											
50(2 1/16). 3 / 5000 psi	2	215	165,1	505	26	8	229	371	280	100	73
65(2 9/16). 3 / 5000 psi	2 1/2	245	190,5	578	30	8	264	422	380	140	105

ETE – End-to-End dimensions with threaded ends.