

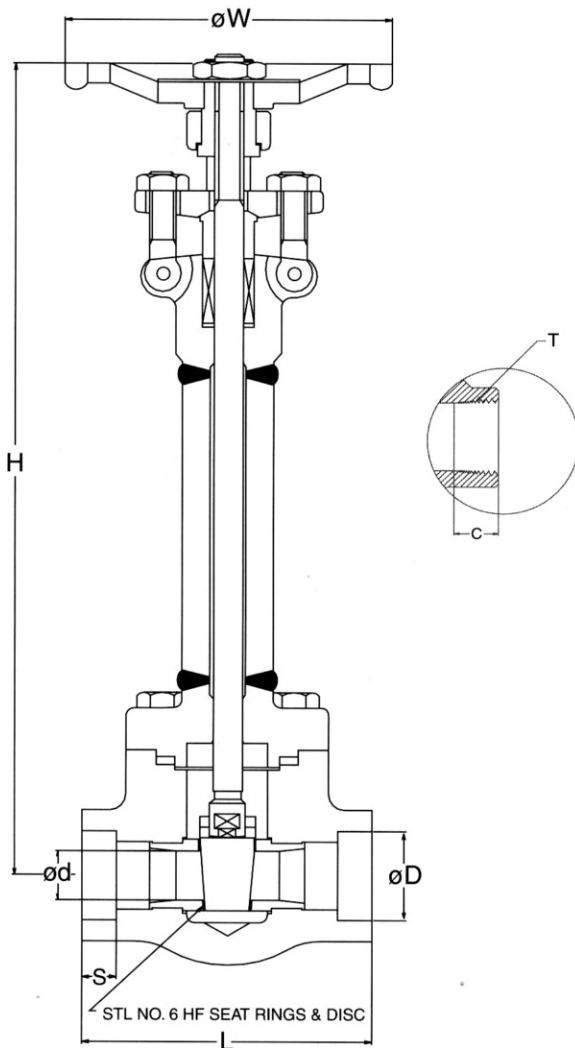
## 800 LBS

# GATE VALVE

## FORGED STEEL

**CRYOGENIC SERVICE  
EXTENDED BONNET TYPE  
B.B., O.S.&Y., RISING STEM  
FIGURE NO. 9180**

**SOCKET WELD ENDS  
SCREWED ENDS**



Ratings:	Test Pressure (API 598):
Stainless Steel — ASTM A182 F316 1,920 p.s.i. at -20°F to 100°F	Hydraulic : Shell — 2,900 p.s.i. Seat — 2,125 p.s.i. Air : Seat — 80 p.s.i.
Stainless Steel — ASTM A182 F316L 1,600 p.s.i. at -20°F to 100°F	Hydraulic : Shell — 2,400 p.s.i. Seat — 1,775 p.s.i. Air : Seat — 80 p.s.i.

### Standard Materials

Part Name	Material
Body	ASTM A182 F316 or F316L
Seat Ring (HF)	ASTM A276-316
Disc (HF)	ASTM A351 CF8M
Stem	ASTM A276-316
Gasket	TEFLON + AISI 316
Bonnet Bolt	ASTM A193 Gr. B8M
Extended Bonnet	ASTM A182 F316 or F316L
Packing Washer	ASTM A276-316
Gland Packing	TEFLON
Eye Bolt Pin	ASTM A276-304
Eye Bolt	ASTM A193 Gr. B8
Gland	ASTM A276-316
Gland Flange	ASTM A182 F316
Eye Bolt Nut	ASTM A194 Gr. 8
Sleeve	ASTM B148 C954
Sleeve Washer	ASTM A276-430
Hand Wheel	ASTM A47
Name Plate	316SS
Lock Nut	ASTM A108-1025

This valve can be used in LIQUIFIED AIR, OXYGEN, and NITROGEN. Bonnet extension allows use on highly insulated lines; the expansion chamber assures heat loss so that packing and other valve control components can operate at ambient temperature.

### Valve Dimensions mm (inch)

SIZE	CENTER TO TOP (OPEN) H	END TO END L	HAND WHEEL DIA. W	SEAT PORT ød	SOCKET WELD		THREAD T	THREAD DEPTH C	WEIGHT KG (LB)
					BORE øD	DEPTH S			
1/2"	277 (10.90)	79 (3.11)	100 (3.94)	13.0 (0.51)	21.70 (0.85) - 22.20 (0.87)	10 (0.39)	1/2" NPT	13.5 (0.53)	4.14 (9.1)
3/4"	277 (10.90)	92 (3.62)	100 (3.94)	13.0 (0.51)	27.05 (1.06) - 27.55 (1.08)	13 (0.51)	3/4" NPT	14.0 (0.55)	5.32 (11.7)
1"	331 (13.03)	111 (4.37)	125 (4.92)	19.0 (0.75)	33.80 (1.33) - 34.30 (1.35)	13 (0.51)	1" NPT	17.5 (0.69)	8.31 (18.3)
1-1/4"	385 (15.16)	120 (4.72)	160 (6.30)	29.2 (1.15)	42.55 (1.68) - 43.05 (1.70)	13 (0.51)	1-1/4" NPT	18.0 (0.71)	11.68 (25.8)
1-1/2"	385 (15.16)	120 (4.72)	160 (6.30)	29.2 (1.15)	48.65 (1.91) - 49.15 (1.93)	13 (0.51)	1-1/2" NPT	18.5 (0.73)	11.46 (25.3)
2"	431 (16.97)	140 (5.51)	180 (7.09)	37.3 (1.47)	61.10 (2.41) - 61.60 (2.43)	16 (0.63)	2" NPT	19.0 (0.75)	18.9 (41.7)