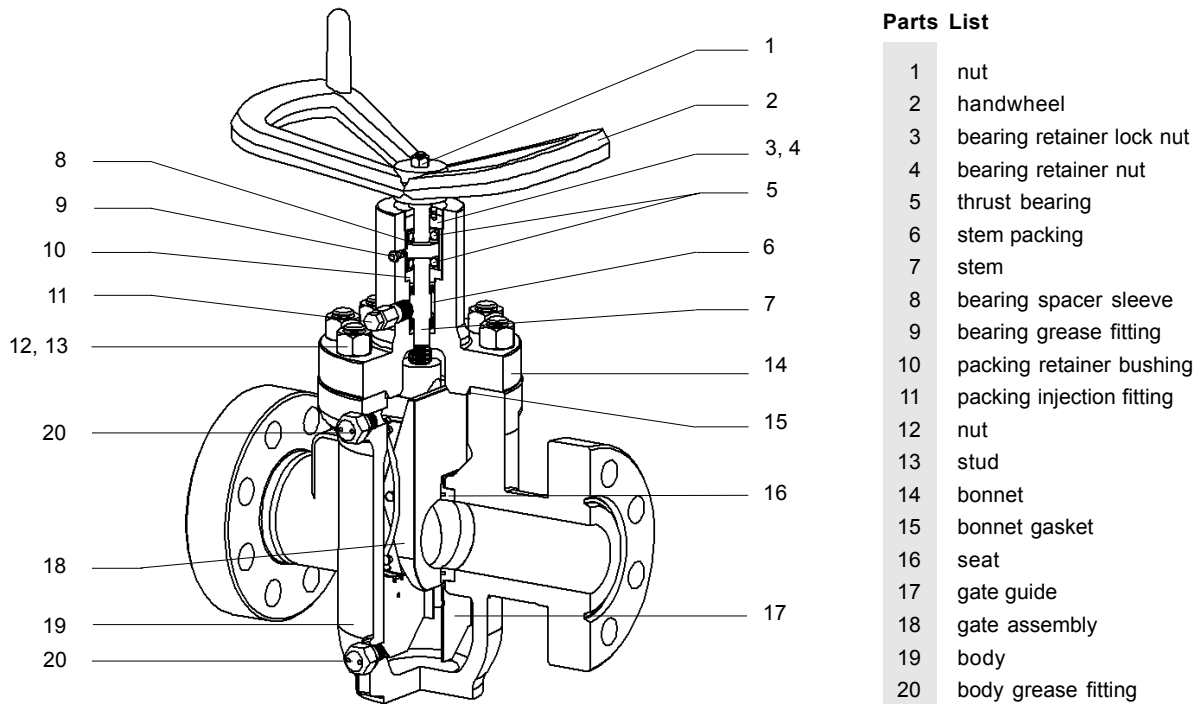




Crown Model A Gate Valve



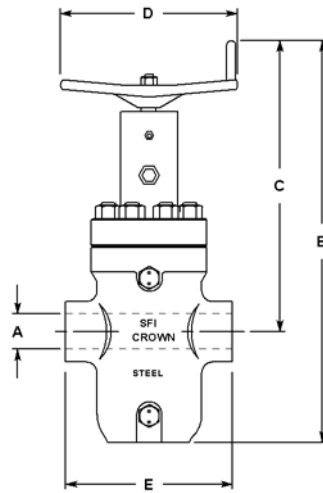
The Crown Model A gate valve utilizes an expanding gate to provide a positive mechanical seal in a wide variety of applications. This valve is available for 2000, 3000 or 5000 psi working pressures and can be supplied in sizes up to 4^{1/16}" flanged or threaded.

Main Design and Construction Features:

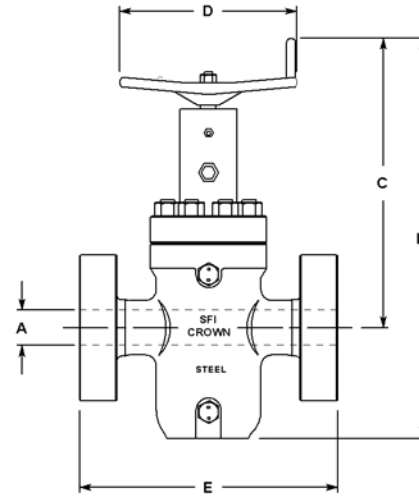
- Integral cast steel body and one-piece bonnet.
- Non-rising stem design.
- Parallel expanding gate provides a tight mechanical metal seal between the seats, protecting body and operating components from flow in both open and closed positions.
- PTFE ring in each seat ensures an initial seal between seats and gate in addition to the metal-to-metal seal generated by full expansion of the gate.
- Valve does not rely on line pressure for sealing.
- Roller thrust bearings minimize valve operating torque.
- External bearing grease fitting allows easy lubrication of stem bearings.
- Packing injection fitting allows the stem packing to be energized under pressure.
- Body cavity is filled with grease to allow easier operation, corrosion resistance and longer life. Two safety-capped grease fittings are provided on the body so that grease may be added at any time.
- Continuous full bore / thru conduit flow at sealing surfaces minimizes pressure drop and turbulence.



Crown Gate Valves



Threaded Valves



Flanged End Valves

Dimensional Data

psi (MPa)	Size	(mm)	A	B	C	D	E		N	Wt	
							threaded	flanged		threaded	flanged
2000 (13.8)	2 1/16	(52)	2.06	23.62	18.69	11.0	9.83	11.62	13.0	85	100
	2 9/16	(65)	2.56	25.56	19.94	12.5	11.60	13.12	15.5	125	140
	3 1/8	(79)	3.19	29.25	22.12	12.5	11.69	14.12	20.0	180	200
	4 1/16	(103)	4.12	34.62	25.69	16.0	-	17.12	24.5	-	390
3000 (20.7)	2 1/16	(52)	2.06	24.25	18.94	12.5	9.83	14.62	13.0	115	160
	2 9/16	(65)	2.56	26.00	19.81	12.5	12.25	16.62	15.5	145	220
	3 1/8	(79)	3.19	30.06	22.62	16.0	11.69	17.12	20.0	225	280
	4 1/16	(103)	4.12	35.31	26.19	20.0	-	20.12	24.5	-	490
5000 (34.5)	2 1/16	(52)	2.06	24.25	18.94	12.5	9.83	14.62	13.0	115	160
	2 9/16	(65)	2.56	26.00	19.81	12.5	12.25	16.62	15.5	145	220
	3 1/8	(79)	3.19	30.00	22.62	16.0	11.69	18.62	20.0	225	320
	4 1/16	(103)	4.12	35.50	26.19	20.0	-	21.62	24.5	-	600

Dimensions in inches
N = number of turns required to open
Wt = lbs

Trim Chart

Service	Trim	Matl Class	Body & Bonnet	Bonnet		Seat	Stem
				Seal	Gate		
general oilfield oil and gas	T-21	AA	alloy steel	CS	alloy steel	alloy steel	alloy steel
general oilfield low temp -50 °F	T-36	AA	alloy steel	CS	alloy steel	alloy steel	alloy steel
general with slight CO ₂ corrosion	T-22	BB	alloy steel	SS	13 Cr SS	17-4 PH	17-4 PH
corrosive with high CO ₂	T-23	CC	13 Cr SS	SS	13 Cr SS HF	17-4 PH	17-4 PH
SOG	T-24	DD-NL	alloy steel	SS	alloy steel HF	17-4 PH	alloy steel
SOG	T-24N	DD-NL	alloy steel	SS	alloy steel HF	17-4 PH	CRA
SOG	T-24Z	DD-0.5/ZZ	alloy steel	SS	alloy steel HF	17-4 PH	17-4PH
SOG	UD	DD-NL	alloy steel	CS	alloy steel SH	alloy steel	alloy steel
SOG low temp -50 °F	T-37	DD-NL	alloy steel	SS	alloy steel HF	17-4 PH	alloy steel
slight CO ₂ corrosion and SOG	T-25	EE-0.5/ZZ	alloy steel	SS	13 Cr SS HF	17-4 PH	17-4 PH
waterflood	T-27	EE-0.5/ZZ	alloy steel (2)	SS	316 SS HF	17-4 PH	17-4 PH
slight CO ₂ corrosion and SOG	T-25N	EE-NL	alloy steel	SS	13 Cr SS HF	17-4 PH	CRA
waterflood	T-27N	EE-15.0	alloy steel (2)	SS	316 SS HF	17-4 PH	CRA
corrosive with high CO ₂ and SOG	T-26	FF-0.5/ZZ	13 Cr SS	SS	13 Cr SS HF	17-4 PH	17-4 PH
corrosive with high CO ₂ and SOG	T-26N	FF-NL	13 Cr SS	SS	13 Cr SS HF	17-4 PH	CRA
extremely corrosive	T-78	HH-NL	CRA (1)	CRA	CRA HF	CRA	CRA

SOG Sour Oil and Gas H₂S NACE MR0175
(1) or Alloy Steel Clad 625
(2) PTFE base or ENC coating

Materials subject to change without notice. Special trims available.