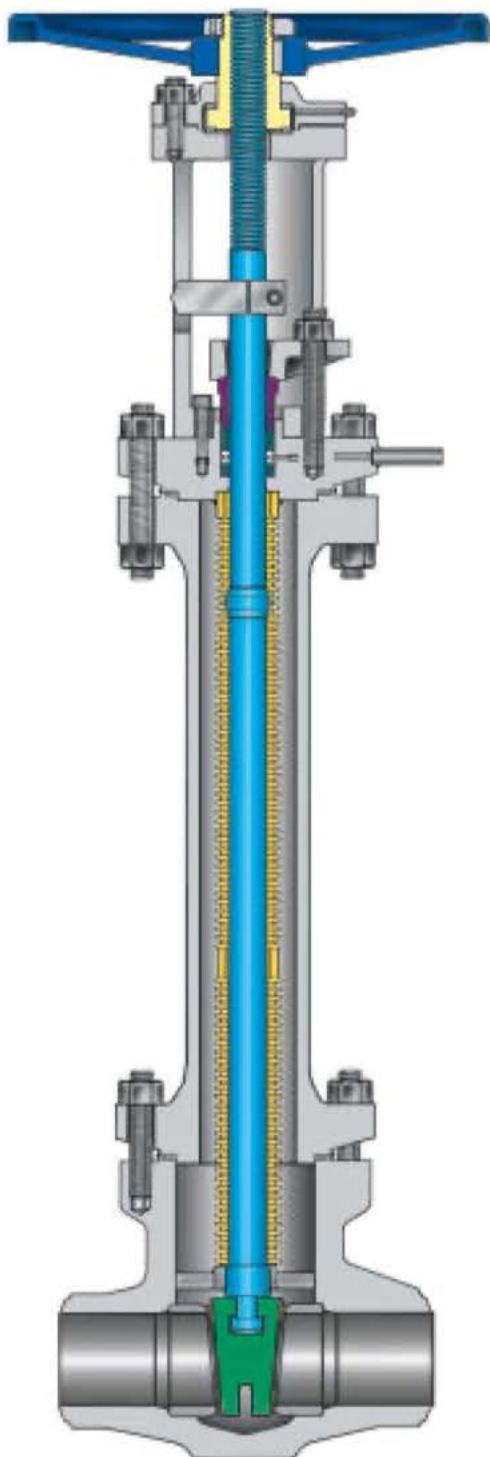




FORGED STEEL BELLOWS SEAL BOLTED BONNET GATE VALVES

2–6" (50–150 mm) ASME CLASSES 600, 1500
WITH OPTIONAL PROVISION FOR SEAL WELDING



DESIGN FEATURES:

- **Long cycle life bellows (2000 cycles)** in Gr. 321 (stainless) or Inconel. Designed for, and successfully tested in, high pressure/temperature conditions.
- **Bellows monitoring port** (optional). Connected to the space above the bellows to monitor performance.
- **Non-rotating stem** prevents torsion of bellows.
- **Two secondary stem seals:**
 - a) Backseat in open position.
 - b) Graphite packing.
- **Forged for higher safety.** Increased toughness, strength and fatigue resistance.
- **Two-part bellows.**
- **Low torque.**
 - a) Non-rotating stem prevents torsion of bellows
 - b) Stem nut thrust bearings
 - c) Central lubrication
- **Seating faces hardfaced** with Stellite 6, ground and lapped.

STANDARD MATERIALS

Part	Carbon steel	Stainless steel
Body / bonnet	A 105	A 182 Gr. F316
Wedge	Stellite faced	Stellite faced
Seats	Stellite faced A 105	Stellite faced CF8M
Stem	Gr. 13 CR	Gr. 316
Bellows	Gr. 321 (stainless) or Inconel	
Stem nut	Manganese bronze	
Packing	Graphite	

PRESSURE/TEMPERATURE RATINGS

Material	Temp. °F °C	Working Pressure psig bar			Shell Test Pressure psig bar		
		600	900	1500	600	900	1500
A 105	100	1480	2220	3705	2225	3350	5575
	38	102	153	256			
	800	825	1235	2060			
	427	57	85	142			
A 182 Gr. F316	100	1440	2160	3600	2175	3250	5400
	38	99	149	248			
	1000	700	1050	1750			
	538	48	72	121			

FIGURE NUMBERS

Class	Figure No.
600	2054R
900	7054R
1500	3054R

DIMENSIONS AND WEIGHTS

Size in mm	Center to Top Closed			End to End (Butt Weld)			Weight (Butt Weld)		
	600	900	1500	600	900	1500	600	900	1500
2	25	30	36	8.50	8.50	8.50	120	138	145
50	635	762	914	216	216	216	59	63	66
2½	35	42	50	10	10	10	130	150	170
65	889	1067	1270	254	254	254	59	68	77
3	47	56	67	12	12	12	260	290	330
80	1194	1422	1702	305	305	305	118	132	150
4	57	68	81	12	14	16	325	350	380
100	1448	1727	2057	305	356	406	148	159	172
6	67	80	96	18	20	22	1040	1160	1380
150	1702	2032	2438	457	508	559	472	526	626

All valves available in A 105N,
A 182 Gr. F22 or Gr. F316.