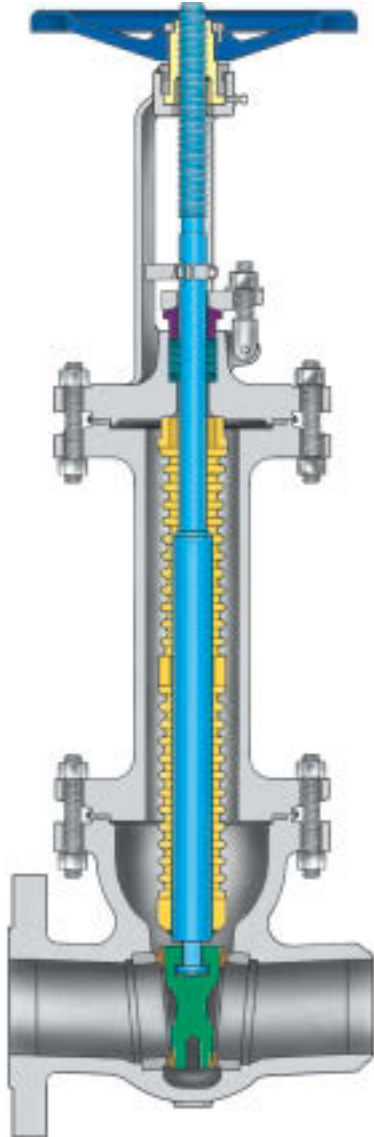




CAST STEEL BELLOWS SEAL BOLTED BONNET GATE VALVES

FLANGED OR BUTT WELD 2–12" (50–300 mm)
API 600, ASME CLASSES 150, 300, 600
WITH OPTIONAL PROVISION FOR SEAL WELDING



DESIGN FEATURES:

- **Long cycle life bellows (2000 cycles)** in Gr. 321 (stainless), Inconel for special applications, maybe replaced with Monel trim to resist corrosion or Hastelloy C for chlorine service.
- **Improved body-bonnet joint.** Graphite reinforced with SS foil gasket for Class 150 valves. Fully-encased, spiral wound graphite-filled Gr. 316 (stainless) gasket for Classes 300-600.
- **Bolted body-bonnet** for fast serviceability. Hermetically-sealed bonnets available for Classes 300 and 600.
- **Two or three section bellows assembly.**
- **Non-rotating stem** prevents torsion of bellows.
- **Two secondary stem seals:**
 - a) Backseat in open position
 - b) Graphite packing.
- **Welded-in seat** hardfaced with Stellite 6.
- **Wedge hardfaced** with Stellite 6 for long life.
- **Seating faces hardfaced** with Stellite 6, ground and lapped.

STANDARD MATERIALS

Part	Carbon steel	Stainless steel
Body/bonnet	A 216 Gr. WCB	A 351 Gr. CF8M
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	Austenitic ductile iron A 439 Gr. D-2C	
Packing	Graphite	

FIGURE NUMBERS

Class	Figure No.
150	0064V
300	1064V
600	2064V

Available in A 216 Gr. WCB, A 217 Gr. C5, A 352 Gr. LCB and A 351 Gr. CF8M.

PRESSURE/TEMPERATURE RATINGS

Material	Temp. °F °C	Working Pressure psig bar			Shell Test Pressure psig bar		
		150	300	600	150	300	600
A 216 Gr. WCB	100	285	740	1480	450	1125	2225
	38	20	51	102			
A 351 Gr. CF8M	800	80	410	825	31	78	153
	427	5.5	28	57			
A 351 Gr. CF8M	100	275	720	1440	425	1100	2175
	38	19	50	99			
A 351 Gr. CF8M	1000	20	350	700	29	76	150
	538	1.4	24	48			

DIMENSIONS AND WEIGHTS

Size in mm	Class 150							Class 300							Class 600						
	Center to Top		Face to Face		Weight		Center to Top	Center to Top	Face to Face		Weight		Center to Top	Center to Top	Face to Face		Weight				
	Closed	Open	BW	FL	BW	FL			Closed	Open	BW	FL			BW	FL	Closed	Open	BW	FL	BW
2	28.92	31.27	8.50	7.00	95	101	28.87	31.25	8.50	8.50	99	113	34.00	36.38	11.50	11.50	128	140			
50	735	794	216	178	43	46	733	794	216	216	45	51	864	924	292	292	58	64			
2½	31.17	33.93	9.50	7.50	104	111	30.62	33.38	9.50	9.50	108	123	35.75	38.75	13.00	13.00	143	156			
65	792	862	241	191	47	50	778	848	241	241	49	56	908	984	330	330	65	71			
3	31.25	35.37	11.13	8.00	120	131	30.62	34.37	11.13	11.13	150	175	36.00	39.75	14.00	14.00	177	204			
80	794	898	283	203	54	59	778	873	283	283	68	79	914	1010	356	356	80	93			
4	36.00	40.37	12.00	9.00	156	178	35.50	39.87	12.00	12.00	196	226	42.31	46.81	17.00	17.00	325	376			
100	914	1025	305	229	71	81	902	1013	305	305	89	103	1075	1189	432	432	148	171			
6	52.00	58.87	15.88	10.50	318	339	52.00	58.50	15.88	15.88	375	445	56.94	63.44	22.00	22.00	630	776			
150	1321	1495	403	267	145	154	1321	1486	403	403	170	202	1446	1611	559	559	286	352			
8	59.25	67.75	16.50	11.50	484	541	59.50	68.19	16.50	16.50	579	688	74.00	82.75	26.00	26.00	1004	1162			
200	1505	1721	419	292	220	246	1511	1732	419	419	263	312	1880	2102	660	660	456	527			
10	70.44	81.31	18.00	13.00	782	827	70.50	80.75	18.00	18.00	929	1070	90.00	100.25	31.00	31.00	1408	1688			
250	1789	2065	457	330	355	376	1791	2051	457	457	422	485	2286	2546	787	787	639	766			
12	80.53	93.03	19.75	14.00	1116	1167	78.25	91.12	19.75	19.75	1217	1465	104.00	116.75	33.00	33.00	1807	2129			
300	2045	2363	502	356	507	530	1988	2314	502	502	553	665	2642	2966	838	838	820	966			