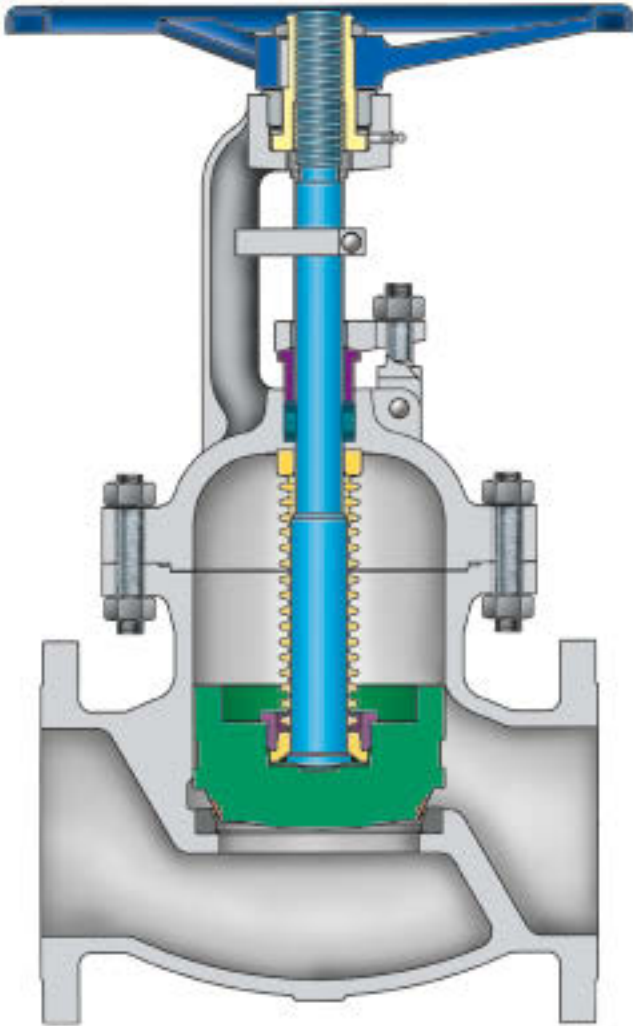




# CAST STEEL BELLOWS SEAL BOLTED BONNET GLOBE VALVES

2–8" (50–200 mm) API 600, ASME CLASSES 150, 300, 600



Available in A 216 Gr. WCB, A 217 Gr. WC6, A 217 Gr. C5, A 352 Gr. LCB and A 351 Gr. CF8M.

## DESIGN FEATURES:

- **Long cycle life bellows (3000 cycles)**  
in Gr. 321 (stainless), Inconel for special applications, or Hastelloy C for chlorine service.
- **Bolted body-bonnet joints** for fast serviceability. Fully enclosed spiral wound Gr. 316 (stainless) graphite gaskets.
- **Non-rotating stem** prevents torsion of bellows.
- **Two-secondary stem seals:**  
a) Back seat in open position. b) Graphite packing.
- **Bellows monitoring port** (optional). A plug can be connected to the space above the bellows to monitor performance.
- **Seat and disc hardfaced with Stellite 6**, ground and lapped.

## STANDARD MATERIALS

Part	Carbon Steel	Stainless Steel
Body/bonnet	A 216 Gr. WCB	A 351 Gr. CF8M
Stem	Gr. 13 CR	Gr. 316
Disc <sup>(1)</sup>	CA-15 or 13CR or A 105 HF	CF8M HFor F316 HF
Bellows	Gr. 321 (stainless), Inconel or Hastelloy	
Bellows fitting	Gr. 321 (stainless)	
Packing	Graphite	
Seat	Integral hardfaced Stellite 6	
Stem nut	Manganese bronze	

(1) Soft disc inserts available for gas or vacuum service.

## FIGURE NUMBERS

Class	Figure No.
150	0074V
300	1074V
600	2074V

## PRESSURE/TEMPERATURE RATINGS

Material	Temp. °F °C	Working Pressure			Shell Test Pressure		
		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		End to End	Weight		Center to Top	Center to Top	End to End	Weight		Center to Top	Center to Top	End to End	Weight				
	Closed	Open		BW	FL				BW	FL				BW	FL	BW	FL	
2	14.35	14.98	8.00	50	57	14.35	14.98	10.50	54	62	17.64	18.14	11.50	81	93			
50	364	380	203	23	26	364	380	267	25	28	448	461	292	37	42			
2½	14.72	15.34	8.50	56	60	14.72	15.34	11.50	65	74	18.00	19.43	13.00	120	131			
65	374	390	216	26	27	374	390	292	30	34	457	494	330	54	59			
3	17.07	17.82	9.50	85	105	17.07	17.82	12.50	91	117	24.30	25.03	14.00	175	195			
80	433	453	241	39	48	433	453	318	41	53	617	636	356	79	88			
4	21.16	22.16	11.50	124	156	21.16	22.16	14.00	134	175	27.72	28.75	17.00	288	360			
100	537	563	292	56	71	537	563	356	61	79	704	730	432	131	163			
6	23.76	25.01	16.00	246	286	23.76	25.01	17.50	267	343	38.82	40.32	22.00	560	660			
150	604	635	406	116	130	604	635	445	121	156	986	1024	559	254	299			
8	28.85	30.46	19.50	413	443	31.98	33.59	22.00	455	573	51.56	53.56	26.00	1418	1588			
200	733	774	495	187	201	812	853	559	206	260	1310	1360	660	643	720			