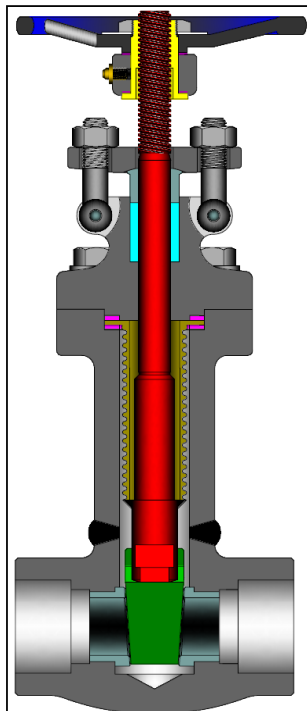


# API 602 BELLOW-SEAL GATE VALVES

FORGED CARBON, STAINLESS STEEL OR ALLOY STEEL

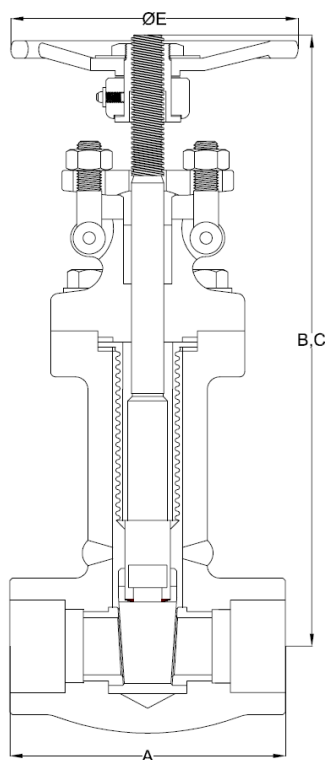
1/2" - 2" (13 - 50mm), ASME CLASS 800



## DESIGN FEATURES:

- Standard trim is API trim 12 with 316Ti bellows.
- Stems are non-rotating with surface finish to maximize packing seal for low fugitive emissions.
- Each valve is shell, seat and backseat pressure tested per industry standard API 598.
- Other Bellows material options are available. Bellows are hydro-formed rather than welded.
- Other available options as follows:
  - » Alternate valve materials such as chrome and stainless steel alloys
  - » Alternate trim materials
  - » NACE service
  - » Special cleaning for applications such as oxygen or chlorine
  - » Other options available as specified.

Class	Fig. No.
800	BG08



## Design Specifications

Item	Applicable Specification
Wall thickness	API 602
Pressure - temperature ratings	ASME B16.34 & API 602
General valve design	API 602 & B16.34
End to End dimensions	ASME B16.10
Thread design	ASME B1.20.1
Socket Weld design	ASME B16.11
Materials	ASTM

**THREADED AND CLASS 150-600  
FLANGED ENDS AVAILABLE.**

**B = Center to top closed  
C = Center to top open**

## STANDARD MATERIALS (Other materials available)

PART	MATERIALS	
Body	A105	A182F316L
Bonnet	A105	A182 F316
Wedge	A182 F316	
Seat Ring	SST 316 + Stellite 6 Faced	
Stem	A182 F316	
Stem Bushing	A 439 Ductile NI-Resist Gr. D2	
Bellows	316Ti	
Gland Flange	A105	Series 300 SST
Eye Bolt	A193 Gr. B7	A193 Gr. B8M
Eye Bolt Nut	A194 Gr. 2H	A194 Gr.8M
Gland	SST 316	
Packing	Graphite	
Packing Washer / Packing Spacer	SST 316	
Gasket (2)	Spiral Wound SST with Graphite	
Hand Wheel	Malleable Iron or Steel	
Hand Wheel Nut	Malleable Iron or Steel	
Key	Steel	
Body / Bonnet Bolting	A193 Gr. B7	A193 Gr. B8M
Identification Plate	Series 300 SST	

SIZE	ASME 800			
in	A	B	C	E
mm				
½	3.11	9.6	10.2	3.9
13	79	244	260	100
¾	3.62	9.6	10.2	3.9
19	92	244	260	100
1	4.37	11.6	12.4	4.9
25	111	295	316	125
1¼	4.72	16.4	17.5	6.3
32	120	416	445	160
1½	4.72	16.4	17.5	6.3
38	120	416	445	160
2	5.51	19.0	20.6	7.1
50	140	483	524	180

**ADDITIONAL SIZES, MATERIALS AND CLASSES AVAILABLE UPON REQUEST.**