

The G-Series valve is a general service, uni-directional ASME 600 Class full-bore valve for drain and vent applications with clean, low-pressure steam, gas or liquid. The floating ball design with metal/graphite laminated seats lower torque and actuator requirements.

## Features

### Ball and seat

- Alternating layers of stainless and laminated composite graphite seat with electro-plated stainless ball provide tight shut-off
- Rotating ball does not displace volume or solids
- Full bore protects sealing surfaces and meets TDP-1 2013 with no restrictions to flow

### Blowout-proof stem

- One-piece design meets industry safety standards

### Low torque

- Self-lubricating composite seat leads to smaller actuator packages with lower initial investment and operating costs

## Operator

- Standard with hand lever and actuator mounting bracket with lock-out
- Easily adapts to manual or automated actuation

## Applications

- Extraction steam drains
- Low pressure HRSG tube drains
- Isolation valve for bypass lines cold reheat drains
- Drip leg drains

## Specifications

Size: 1 to 3 inch (25 to 80 dn)  
Temperature\*: 900° F (482° C)

## End Connections

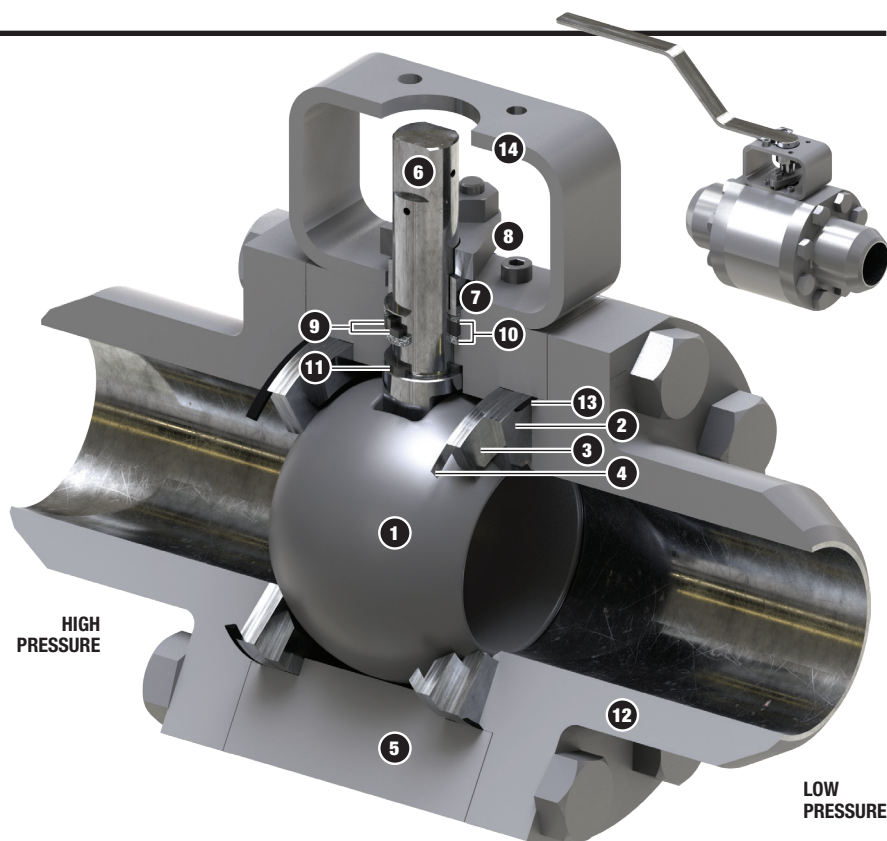
Standard configurations include:  
Socketweld (1 to 2 inch) and  
Buttweld (3 inch Schedule 80)

\* A105 limited to 800° F (426° C)

Bill of Materials		
Item No.	Description	Material
1	Ball	A182-F316SS / Electroless Nickel Plated
2	Seat	316SS / Graphite
3	Seat Retainer	A276 316SS
4	Seat Gasket	316SS / Graphite
5	Body*	A105
6	Stem	A638 Gr 660 (A286)
7	Gland Flange Thruster	316SS
8	Gland Flange	316SS
9	Stem Packing	Expanded Graphite
10	Anti-extrusion Rings	Braided Graphite with Inconel Wires
11	Bearing Stem Seal	316SS
12	End Connect*	A105
13	Body Gasket	Graphite
14	Mounting Flange Adapter	Carbon Steel

**SS = Stainless Steel**

\* Also available in 316SS and F22



Temperature vs Pressure — Standard Class Ratings										
Class	Material	Temperature °F								
		-20 to 100	200	300	400	500	600	700	800	900
<b>ASME 600</b> Maximum Pressure (psig)	A105	1480	1360	1310	1265	1205	1135	1060	825	—
	F316	1440	1240	1120	1025	955	900	870	845	830
	F22	1500	1500	1455	1410	1330	1210	1135	1015	900
Class	Material	Temperature °C								
		-29 to 38	100	150	200	250	300	350	400	475
<b>ASME 600</b> Maximum Pressure (bar)	A105	102.1	93.2	90.2	87.6	83.9	79.6	75.1	69.4	—
	F316	99.3	84.4	77.0	71.3	66.8	63.2	60.7	58.9	57.3
	F22	103.4	103.0	100.3	97.2	92.7	85.7	80.4	73.3	63.4