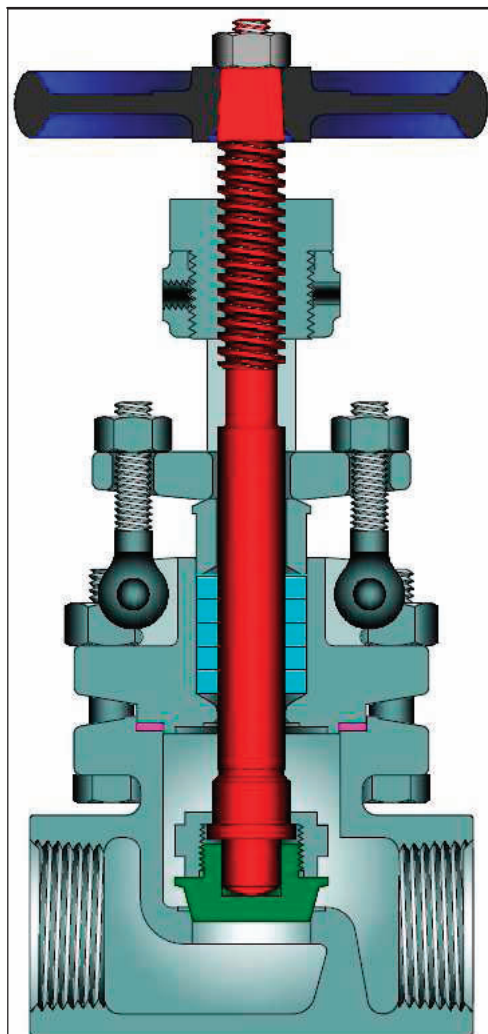


API 603 WALL GLOBE VALVES
BOLTED BONNET, CLASSES 200-600
¼" to 2" (6 TO 50 mm), THREADED OR SOCKET WELD ENDS
CAST STAINLESS STEEL



PART	MATERIALS
Body	A351 Gr. CF3M
Bonnet	A351 Gr. CF8M
Disc	A276 316
Disc Nut	A276 316
Stem	A276 316
Gland Flange	A351 Gr. CF8M
Eye Bolt	A193 Gr. B8
Eye Bolt Nut	A194 Gr. 8
Gland	A276 316
Packing	PTFE
Gasket	PTFE
Hand Wheel	A47
Hand Wheel Nut	Steel
Stem Bushing	A582 416
Body / Bonnet Bolt	A193 Gr. B8
Body / Bonnet Nut	A194 Gr.8
Set Screw	Steel
Identification Plate	Series 300 SST

Class	Figure Number
200	2474
300	2447 (1)
600	1983 (1)

1) See pages 16-18 for flanged and butt weld designs.

Design Specifications

Item	Applicable Specification
Wall thickness	API 603 & B16.34
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End Threads-NPT	ASME B1.20.1
Socket Weld Ends	ASME B16.11
Materials	ASTM

DESIGN FEATURES:

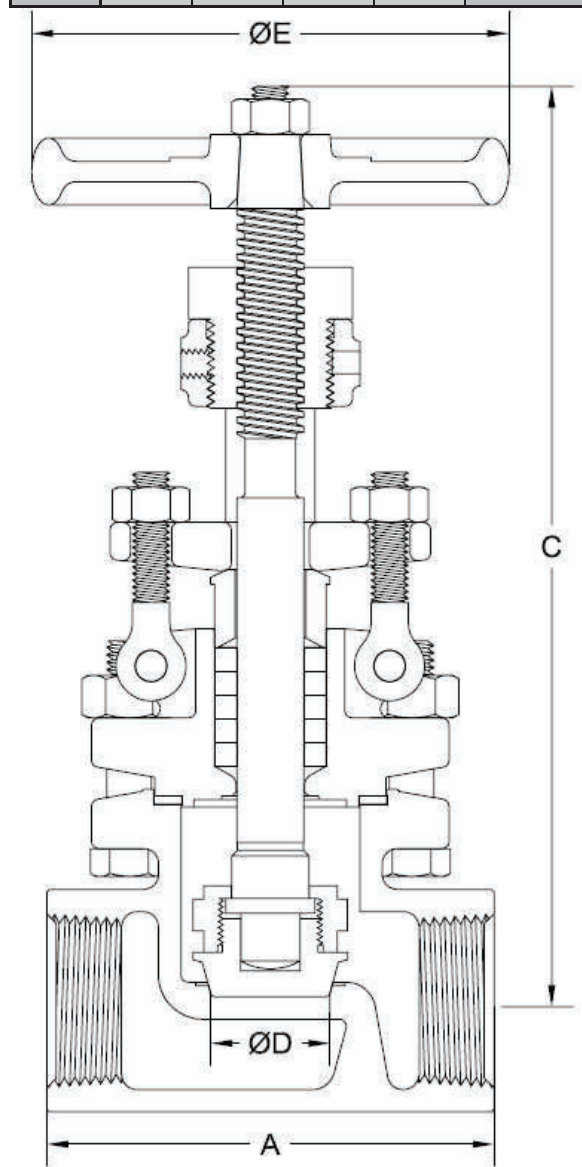
- **Seat face:** Ground and lapped to a smooth finish.
- **Body and bonnet joint** accurately machined. Gasket materials and details on page 6.
- **Swivel disc** for optimal seating and longer seat life .
- **Stems** are rotating / rising design.
- **Each valve** is shell, seat and backseat pressure tested per industry standard API 598.
- **Body and bonnet** castings are precision machined.
- **Gland** has two-piece construction for easy alignment.

- **Each valve** has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- **Other available options** as follows:
 - Alternate valve materials available
 - NACE service
 - Special cleaning for applications such as oxygen or chlorine
 - Other options available as specified

NOTE: Powell reserves the right to convert threaded ends to socket weld when needed, which will result in thread remnants as pipe stop.

GLOBE VALVE DIMENSIONS (CLASS 200—600).

SIZE	ASME 200						ASME 300					
	A	C	D	E	WT	lb	A	C	D	E	WT	lb
	mm					kg	mm					kg
¼	2.88	6.8	0.50	3.0	3.5	2.5	2.88	6.8	0.50	3.0	3.6	2.5
7	73	171	13	76	1.6		73	171	13	76	1.6	
⅜	2.88	6.8	0.50	3.0	3.5	2.5	2.88	6.8	0.50	3.0	3.6	2.5
10	73	171	13	76	1.6		73	171	13	76	1.6	
½	2.88	6.8	0.50	3.0	3.5	2.5	2.88	6.8	0.50	3.0	3.8	2.5
13	73	171	13	76	1.6		73	171	13	76	1.7	
¾	3.25	7.3	0.75	3.5	4.5	5.8	3.25	7.3	0.75	3.5	4.6	5.8
20	83	186	19	89	2.0		83	186	19	89	2.1	
1	3.75	8.2	1.00	4.0	6.7	10.7	3.75	8.2	1.00	4.0	7.1	10.7
25	95	208	25	102	3.0		95	208	25	102	3.2	
1¼	5.50	8.9	1.50	5.0	10.5	25	5.50	8.9	1.50	5.0	13.5	25
32	140	226	38	127	4.8		140	226	38	127	6.1	
1½	5.50	9.9	1.50	5.0	13.7	25	5.50	9.9	1.50	5.0	19.1	25
38	140	251	38	127	6.2		140	251	38	127	8.7	
2	6.00	10.9	2.00	6.0	19.8	50	6.00	10.9	2.00	6.0	25.8	50
50	152	276	51	152	9.0		152	276	51	152	11.7	



SIZE	ASME 600					
	A	C	D	E	WT	lb
	mm					kg
¼	2.88	6.8	0.50	3.0	3.7	2.5
7	73	171	13	76	1.7	
⅜	2.88	6.8	0.50	3.0	3.7	2.5
10	73	171	13	76	1.7	
½	2.88	6.8	0.50	3.0	3.7	2.5
13	73	171	13	76	1.7	
¾	3.25	7.3	0.75	3.5	4.8	5.8
20	83	186	19	89	2.2	
1	3.75	8.3	1.00	5.0	7.4	10.7
25	95	211	25	127	3.4	
1¼	5.00	10.6	1.25	6.0	17.5	17.1
32	127	269	32	152	7.9	
1½	5.63	10.9	1.50	7.0	21.0	25
38	143	276	38	178	9.5	
2	6.25	12.8	2.00	8.0	40.0	50
50	159	324	51	203	18.1	

C = Center to top open

WT = Weight

C_V = Flow Coefficient