

WALWORTH API 602 GLOBE VALVES

The Globe Valves are primarily used to modulate or regulate the volume of the flow.

A Globe Valve is not recommended when a continuous full flow of fluid is required due to the high pressure drop inherent to the design of a Globe Valve.

This type of valve should always be installed so the flow intake enters through the base of the valve seat. The valve has an arrow stamped on the body to indicate the preferred direction on flow.

Globe Valves may be used with fluids containing particles in suspension.

DESIGN FEATURES

- Valves in accordance with API-602.
- Socket Weld, Threaded, Combined or Flanged RF or RTJ ends.
- Bolted Bonnet or Welded Bonnet options.
- Standard or Full Port.
- Low fugitive emissions control.
- NACE Service either MR-0175 or MR-0103.
- Test in accordance with API-598.

Rising stem with precision acme thread.

Stem packing is designed for optimum control of fugitive emissions leakage to the atmosphere. The ultra-low emission leakage rate is assured by the fine finish on the stem, the reduced diametrical clearances and the stem straightness control.

Backseat designed to relieve back pressure on the stem packing when fully seated. Replacing stem packing under pressure is not recommended.

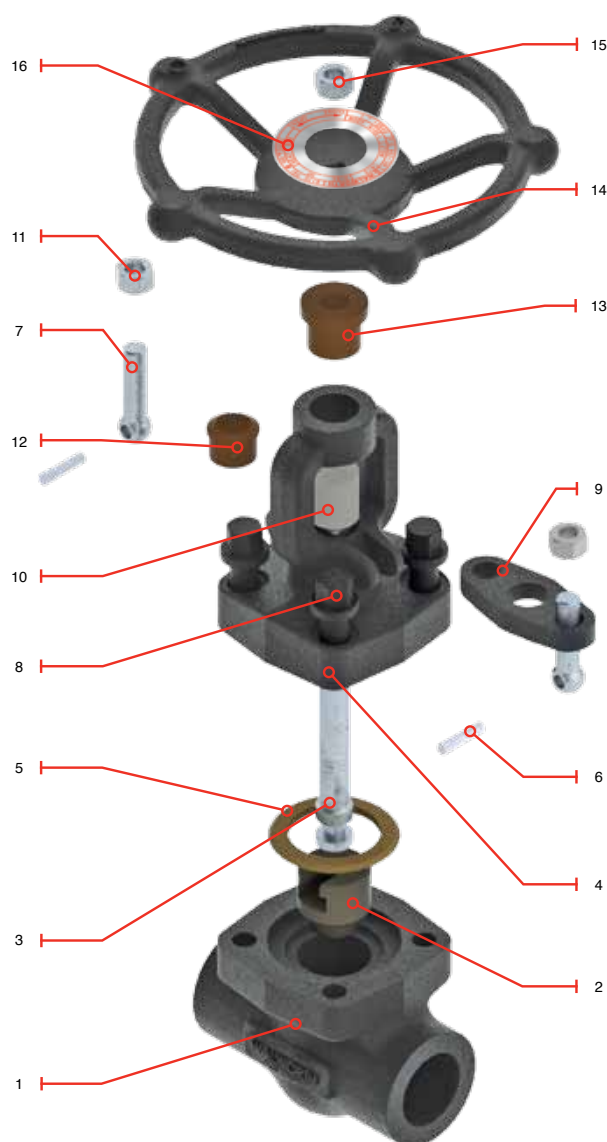
Body to bonnet joint designed to apply a uniform load to the gasket to assure a leak proof seal.

Stellited seat ring, providing increased resistance to wear, abrasion and erosion of the sealing surface.

Integral welded seat or threaded seat.

REGULAR BILL OF MATERIALS

No.	DESCRIPTION	TRIM 8 A 105N
1	BODY	A105
2	PLUG TYPE DISC	A276-420
3	STEM	A276-410
4	BONNET	A105
5	BONNET GASKET	304+ FLEXIBLE GRAPHITE
6	EYE BOLT PIN	A276-304
7	EYE BOLT	A193-B7
8	BONNET BOLTS	A193-B7
9	GLAND PLATE	A105
10	STEM PACKING	FLEXIBLE GRAPHITE
11	GLAND NUT	A194-2H
12	GLAND BUSHING	A276-420
13	STEM NUT	A276-410
14	HANDWHEEL	A197
15	HANDWHEEL NUT	A194-2H
16	IDENTIFICATION PLATE	ALUMINIUM



API 602 GLOBE VALVES TH & SW, CLASS 800

Design Characteristics

- API 602 & ASME B16.34
- Bolted or Welded Bonnet
- Tapered loose disc
- Stem with ACME Threaded (OS&Y)
- Bolted Gland Bushing
- Standard or Full Port
- Threaded, Socket Weld or Threaded x Socket Weld
- Spiral Wound Gasket
- Integral Seat Ring

PORT	CLASS	CATALOG FIGURE No.	ENDS TYPES
Standard	800 Bolted Bonnet	5520S	Threaded
		5520SW	Socket Weld
		5520SSW	Threaded X Socket Weld
Full	800 Bolted Bonnet	5528S	Threaded
		5528SW	Socket Weld
		5528SSW	Threaded X Socket Weld
Standard	800 Welded Bonnet	5527S	Threaded
		5527SW	Socket Weld
		5527SSW	Threaded X Socket Weld
Full	800 Welded Bonnet	5529S	Threaded
		5529SW	Socket Weld
		5529SSW	Threaded X Socket Weld

Dimensions and Weights

Fig. 5520 Standard Port, Bolted Bonnet

Sizes	in	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	mm	6	10	13	19	25	32	38	51
A	in	3.11	3.11	3.11	3.62	4.37	4.72	5.98	6.77
	mm	79	79	79	92	111	120	152	172
B (open)	in	6.06	6.06	6.22	6.22	7.55	8.94	9.45	10.98
	mm	154	154	158	158	192	227	240	279
C	in	3.94	3.94	3.94	3.94	4.92	6.30	6.30	7.09
	mm	100	100	100	100	125	160	160	180
D	in	0.26	0.39	0.39	0.51	.68	0.91	1.12	1.38
	mm	6.5	10.0	10.0	13.0	17.5	23.0	28.5	35.0
E	in	1.34	1.34	1.34	1.57	1.92	2.24	2.52	3.07
	mm	34	34	34	40	49	58	64	78
Weight	lb	4.62	4.62	4.4	4.84	5.5	12.1	15.4	25.3
	kg	2.1	2.1	2.0	2.2	2.5	5.5	7.0	11.5

Fig. 5527 Standard Port, Welded Bonnet

Sizes	in	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	mm	6	10	13	19	25	32	38	51
A	in	3.11	3.11	3.11	3.62	4.37	4.72	5.98	6.77
	mm	79	79	79	92	111	120	152	172
B (open)	in	6.06	6.06	6.22	6.22	7.56	8.94	9.45	10.98
	mm	154	154	158	158	192	227	240	279
C	in	3.94	3.94	3.94	3.94	4.92	6.30	6.30	7.09
	mm	100	100	100	100	125	160	160	180
D	in	0.26	0.39	0.39	0.51	0.69	0.91	1.12	1.38
	mm	6.5	10.0	10.0	13.0	17.5	23.0	28.5	35.0
E	in	1.34	1.34	1.34	1.57	1.93	2.28	2.52	3.07
	mm	34	34	34	40	49	58	64	78
Weight	lb	4.4	4.4	4.18	4.62	8.14	11.88	15.18	25.08
	kg	2.0	2.0	1.9	2.1	3.7	5.4	6.9	11.4

Fig. 5528 Full Port, Bolted Bonnet

Sizes	in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	mm	13	19	25	32	38	51
A	in	3.62	4.37	4.72	5.98	6.77	8.66
	mm	92	111	120	152	172	220
B (open)	in	6.22	7.56	8.94	9.45	10.98	12.80
	mm	158	192	227	240	279	325
C	in	6.29	4.92	6.30	6.30	7.09	7.87
	mm	160	125	160	160	180	200
D	in	0.51	0.69	0.91	1.12	1.40	1.85
	mm	13	17.5	23.0	28.5	35.5	47.0
E	in	1.57	1.93	2.28	2.52	3.07	3.46
	mm	40	49	58	64	78	88
Weight	lb	4.84	8.36	12.1	15.4	25.3	26.4
	kg	2.2	3.8	5.5	7.0	11.5	12.0

Fig. 5529 Full Port, Welded Bonnet

Sizes	in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	mm	13	19	25	32	38	51
A	in	3.62	4.37	4.72	5.98	6.77	8.66
	mm	92	111	120	152	172	220
B (open)	in	6.22	7.56	8.94	9.45	10.98	12.80
	mm	158	192	227	240	279	325
C	in	3.94	4.92	6.30	6.30	7.09	7.87
	mm	100	125	160	160	180	200
D	in	0.51	0.69	0.91	1.12	1.42	1.85
	mm	13	17.5	23.0	28.5	36.0	47.0
E	in	1.57	1.93	2.28	2.52	3.11	3.46
	mm	40	49	58	64	79	88
Weight	lb	4.62	8.14	11.88	15.18	25.08	26.18
	kg	2.1	3.7	5.4	6.9	11.4	11.9

