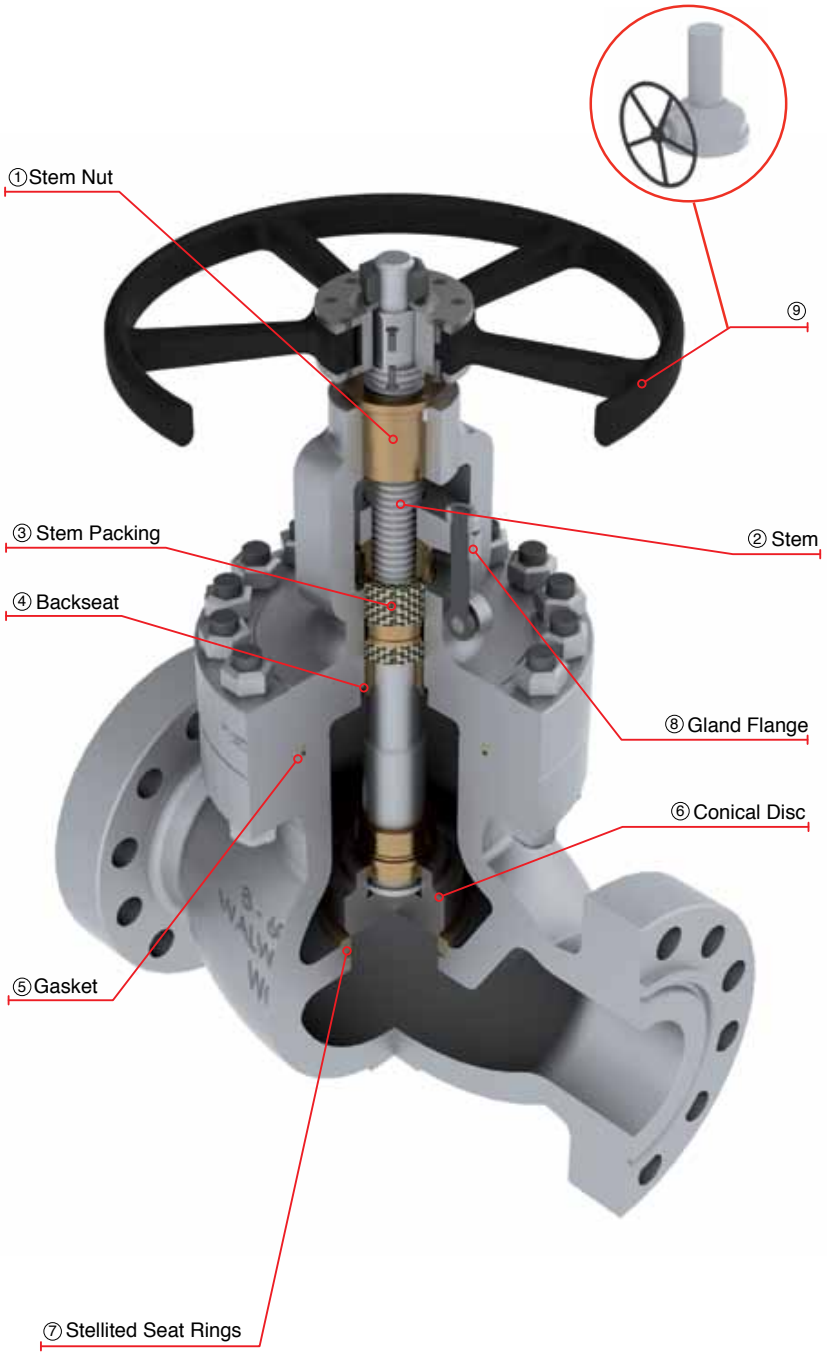
CAST STEEL GLOBE VALVES CLASS 600

CAST STEEL GLOBE VALVES WITH RISING HANDWHEEL AND STEM.

DESIGN FEATURES

- Globe valves design in accordance with API-623
- Globe valves option in accordance with API-603 only for stainless steel & nickel alloys.
- Globe valves for cryogenic service with gas column in accordance with BS-6364 upon request
- Flange dimensions in accordance with ASME B16.5 for valves up to 24" nominal diameter
- Handwheel, handwheel impact, chain wheel, gear operation, electric, pneumatic or hyydraulic actuation as per customer requirements
- By-pass, lantern rings, grease injectors, special connections, etc.
- Low fugitive emissions control
- NACE service either MR-01-75 or MR-01-03.
- Test in accordance with API-598
- Stop check design option available



① Stem Nut, replaceable in line to avoid shut down of pipe line process.

② Revolving rising stem with precision ACME single or double thread for quick operation. Surface finish suitable to seal properly to get low fugitive emissions.

③ 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 in the stem, the reduced diametrical clearances and the stem straightness control special designed packing. Live load packing arrangement available upon request.

④ Backseat either threaded or welded, designed to relieve back pressure on the stem packing when fully seated. Replacing stem packing under pressure is not recommended. Hard faced backseat available for severe service as customer requirements

⑤ Body to Bonnet Ring Type Joint designed to apply a uniform load to the gasket to assure a leak proof seal.

⑥ Conical Plug type Disc, integrally guided to assure true alignment between disc and valve body. The loose disc design allows the disc and seat ring sealing surface to seat correctly without damage.

⑦ Stellited Seat Ring is seal welded to provide a increased resistance to wear, abrasion, and erosion of the sealing surfaces.

⑧ Two pieces arrangement gland flange and stem packing bushing for self-alignment to avoid stem damage.

⑨ Impact Handwheel, the mechanism is based on transmitting the momentum generated by the mass of the handwheel through the impact/impulse generated during the snap closure action of the handwheel. This type of handwheel is used when a standard handwheel cannot create enough closing force to effect a seal. Gear operated is also available.

CAST STEEL GLOBE VALVES, CLASS 600
(HANDWHEEL OPERATED)

Design Features

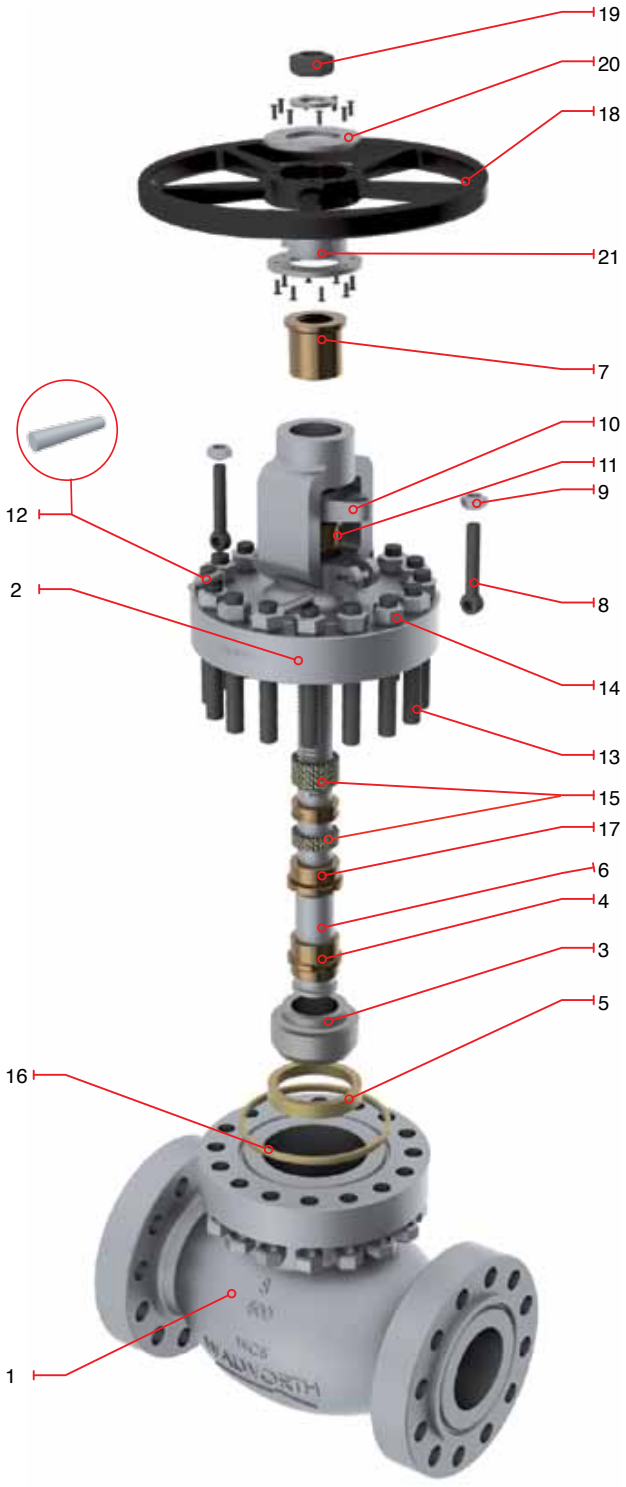
- Design in accordance with API-623
- Rising Stem and Handwheel: 2” to 6”
- Rising Stem and fixed handwheel 8” and up
- Flange dimensions as per ASME B16.5
- End to end dimensions as per ASME B16.10
- WE dimensions as per ASME B 16.25
- Bonnet with Bearings: 8” and larger
- Size 2” and 8” Handwheel operated as standard

Catalog Figure No.	ID Plant Figure No.	Type of Ends
5295RF	5295F	Flanged Raised Face
5295RTJ	5295RJ	Flanged Ring Type Joint
5295WE	5295WE	Buttweld

Regular Bill of Materials

No.	Description	STANDARD MATERIAL
1	Body	ASTM A 216 GR WCB
2	Bonnet	ASTM A 216 GR WCB
3	Disc	ASTM A 276 Type 410
4	Disc Lock Nut	Alloy Steel
5	Seat Ring	ASTM A 515 GR 70 + ST6
6	Stem	ASTM A 276 Type 410
7	Stem Nut	ASTM B 148 UNS C95600
8	Eyebolt	Alloy Steel
9	Eyebolt Nut	ASTM A 307
10	Gland Flange	ASTM A 515 GR 70
11	Packing Bushing	ASTM A 108 GR 1020
12	Eyebolt Pin	Alloy Steel
13	Bonnet Stud	ASTM A 193 GR B7
14	Bonnet Stud Nut	ASTM A 194 GR 2H
15	Stem Packing	Graphite
16	Ring type Joint Gasket	ASTM A 108 GR 1010
17	Bonnet Bushing	ASTM A 276 Type 410
18	Handwheel	ASTM A 197
19	Handwheel Nut	ASTM A 307
20	Clamp	Commercial Steel
21	Impact Bushing	ASTM A 216 GR WCB
22*	Stem Nut Set Screw	Alloy Steel
23*	Identification Plate	Stainless Steel

*Not Shown



CAST STEEL GLOBE VALVES, CLASS 600
(HANDWHEEL OPERATED)

Design Features

- Design in accordance with API-623
- Rising Stem and Handwheel: 2” to 6”
- Rising stem and fixed handwheel 8”
- Flange dimensions as per ASME B16.5
- End to end dimensions as per ASME B16.10
- WE dimensions as per ASME B 16.25
- Bonnet with Bearings: 8” and larger
- Size 2” and 8” Handwheel operated as standard

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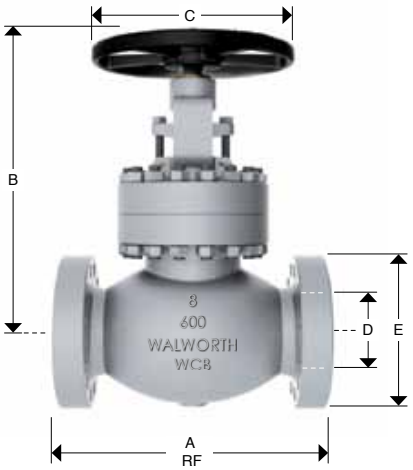

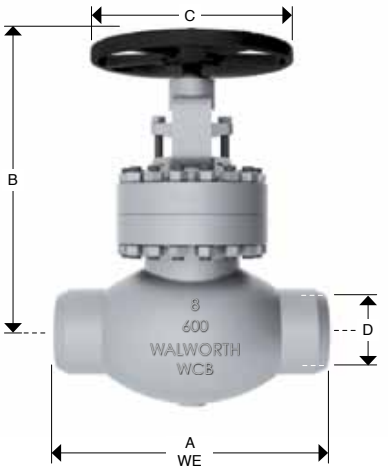

Dimensions and Weights

D Nominal Diameter	mm	51	64	76	102	152	200
	in	2	2 1/2	3	4	6	8
A (RF and WE)	mm	292	330	356	432	559	660
	in	11 1/2	13	14	17	22	26
A* (RTJ)	mm	295	333	359	435	562	663
	in	11 5/8	13 1/8	14 1/8	17 1/8	22 1/8	26 1/8
B	mm	400	501	493	582	783	925
	in	15 3/4	19 3/4	19 1/2	22 7/8	30 7/8	36 3/8
C	mm	250	300	350	400	500	560
	in	10	12	14	16	20	22
E	mm	165	190	210	273	356	419
	in	6 1/2	7 1/2	8 1/4	10 3/4	14	16 1/2
Weight 5295RF	Kg	36	63	66	120	278	429
	lb	79	139	145	264	611	944
Weight 5295WE	Kg	30	52	55	102	236	365
	lb	66	115	121	224	519	802

For size and dimensions not shown, please contact our Sales Department.

CAST STEEL GLOBE VALVES, CLASS 600
(GEAR OPERATED)

Design Features

- Design in accordance with API-623
- Rising stem
- Flange dimensions as per ASME B16.5
- End to end dimensions as per ASME B16.10
- WE dimensions as per ASME B 16.25
- Bonnet with Bearings: 8” and larger
- Size 10” and up Gear operated as standard

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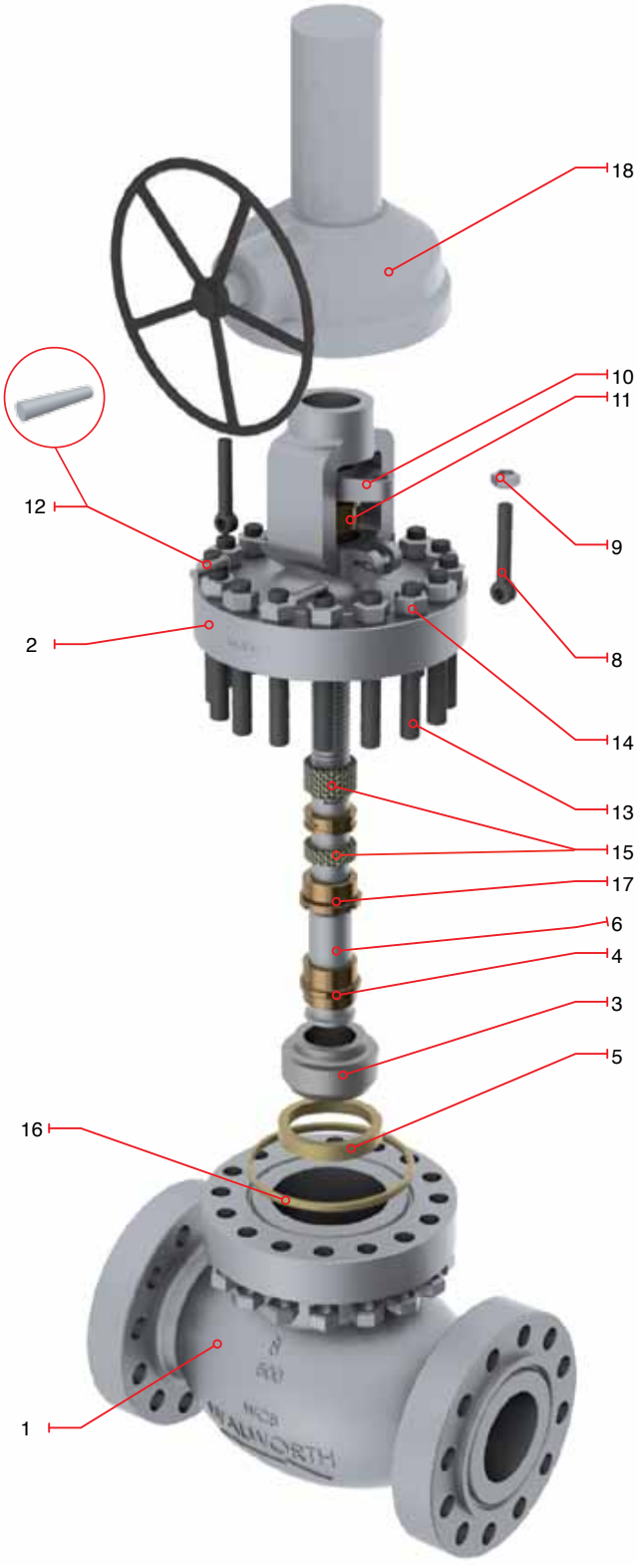
11	Packing Bushing	ASTM A 108 GR 1020
12	Eyebolt Pin	Alloy Steel
13	Bonnet Stud	ASTM A 193 GR B7
14	Bonnet Stud Nut	ASTM A 194 GR 2H
15	Stem Packing	Graphite
16	Rising type Joint Gasket	ASTM A 108 GR 1010
17	Bonnet Bushing	ASTM A 276 Type 410
18	Gear Operator	as customer requirements
*19	Operator Bolts	Alloy Steel
*20	Identification Plate	Stainless Steel

*Not Shown



CAST STEEL GLOBE VALVES, CLASS 600
(GEAR OPERATED)

Design Features

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- Rising Stem
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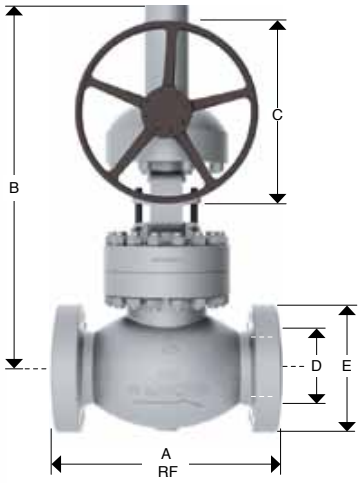

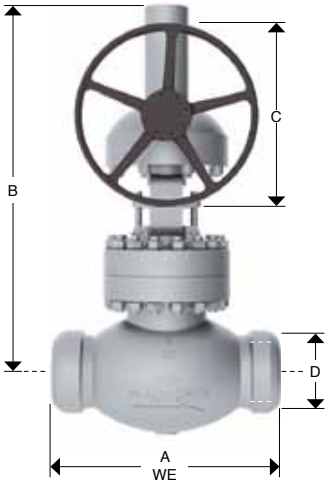

Dimensions and Weights

D Nominal Diameter	mm	254	305	356	406	457	508	610
	in	10	12	14	16	18	20	24
A (RF and WE)	mm	787	838	889	991	PCR	PCR	PCR
	in	31	33	35	39	PCR	PCR	PCR
A* (RTJ)	mm	790	841	892	994	PCR	PCR	PCR
	in	31 1/8	33 1/8	35 1/8	39 1/8	PCR	PCR	PCR
B	mm	994	1122	1196	1327	PCR	PCR	PCR
	in	39 1/8	44 1/8	47 1/8	52 1/4	PCR	PCR	PCR
C	mm	640	700	600	600	PCR	PCR	PCR
	in	25	28	23 5/8	23 5/8	PCR	PCR	PCR
E	mm	508	559	603	686	745	815	940
	in	20	22	23 3/4	27	29 1/4	32	37
Weight 5295RF	Kg	737	1194	1421	1899	PCR	PCR	PCR
	lb	1621	2627	3126	4178	PCR	PCR	PCR
Weight 5295WE	Kg	649	1051	1322	1766	PCR	PCR	PCR
	lb	1427	2312	2907	3885	PCR	PCR	PCR

PCR = Per customer request