

CAST Iron Globe and Angle Valve Features



V V globe and angle valves are highly efficient for throttling service because disc and seat designs provide flow characteristics with proportionate relationships between valve lift and flow rate. This assures accurate regulated flow control. The additional advantage of an angle valve is that it provides a 90° turn in piping so fewer joints are required and make-up time and labour are reduced.



Bolted Bonnet is the most common design because there is practically no limitation on size. Multiple bolting permits equalized sealing pressure on the gasket against high pressure encountered in iron globe and angle valve applications.

There are two types of discs supplied in V V globe and angle valves:

Metal Disc in most valves is fully guided throughout its travel, minimizing vibration of internal parts and assuring true seating. The disc stem connection is designed to securely hold the disc yet permit swivel action. Disc materials are iron faced with 13% Cr. S.S & iron faced with G.M

Metal Plug Disc/ Needle Type is conically shaped. This design is universally accepted for rigorous service. Because of the wide seating surfaces, it is not easily harmed by foreign matter or wiredrawing. V V uses S.S in this design.

Seats are screwed in and can be reground or replaced whenever necessary.

Stem material is matched to service recommendations for improved operating dependability and life.

Packing Graphited asbestos

Backseating: Rising stem valves are equipped with backseats. It is recommended that the back seat be used as a means for determining the full open valve position. For normal operation in the open position, the stem should be backed off so that the back seat is not in contact. This permits the stem packing to assume its intended sealing function and not conceal unsatisfactory stem packing.



In the event of stem packing leakage, the back seat can be used to stop stem leakage until circumstances permit a system shut down and time for packing replacement.

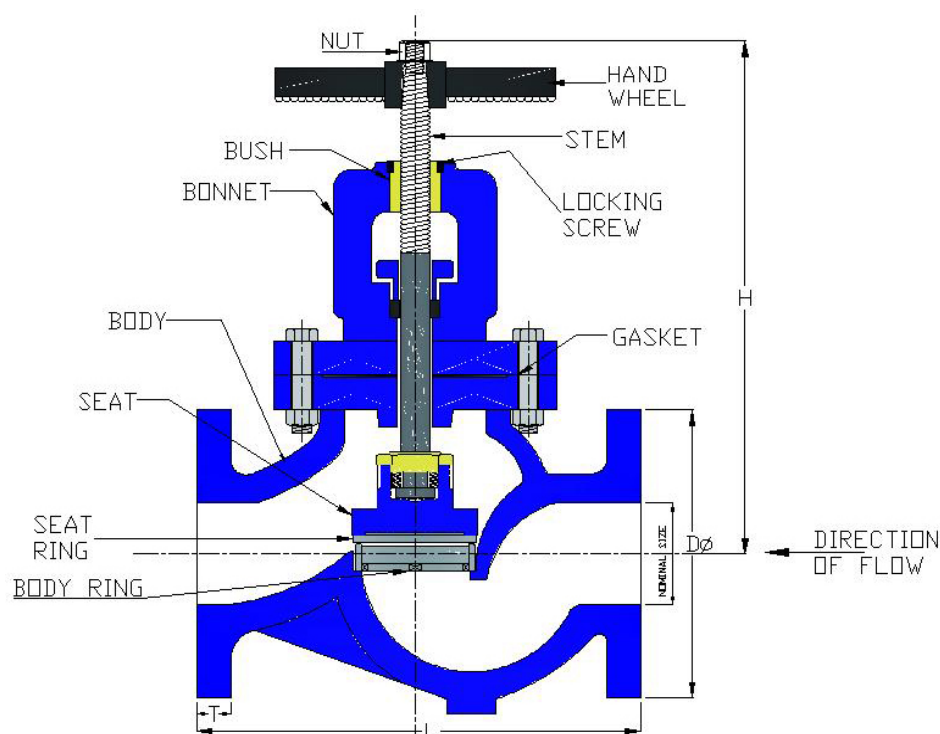
Stem packing replacement with the valve under pressure and backseated represents a hazard and should not be undertaken. The hazard is magnified as fluid pressure or temperature increases or when the fluid is toxic.

Handwheels are furnished on all valves

Face-To-Face Dimensions of flanged end valves conform to DIN 2533 PN 16

Figure No. 812**C.I Globe Valve**

PN 16 • Outside Screw & Yoke • Rising Stem • DIN: 2533



Max. Working Pressure : 10 Kg/cm².

Max. Working Temp. : 200°C / 400 F

Features

- Integral yoke bonnet
- Valves are provided with a Back Seat
- 13% Cr. S.S Body Ring & Seat Ring or G.M Trim.
- Stem Provided with ACME Threads
- Packing Graphited Asbestos
- Gaskets Compressed Asbestos Fibre
- Flanges as per DIN 2533
- Bolted Bonnet
- Size Range : 15 mm-150 mm
- Seating : S.S / G.M
- Stem : S.S AISI 410

Dimensions

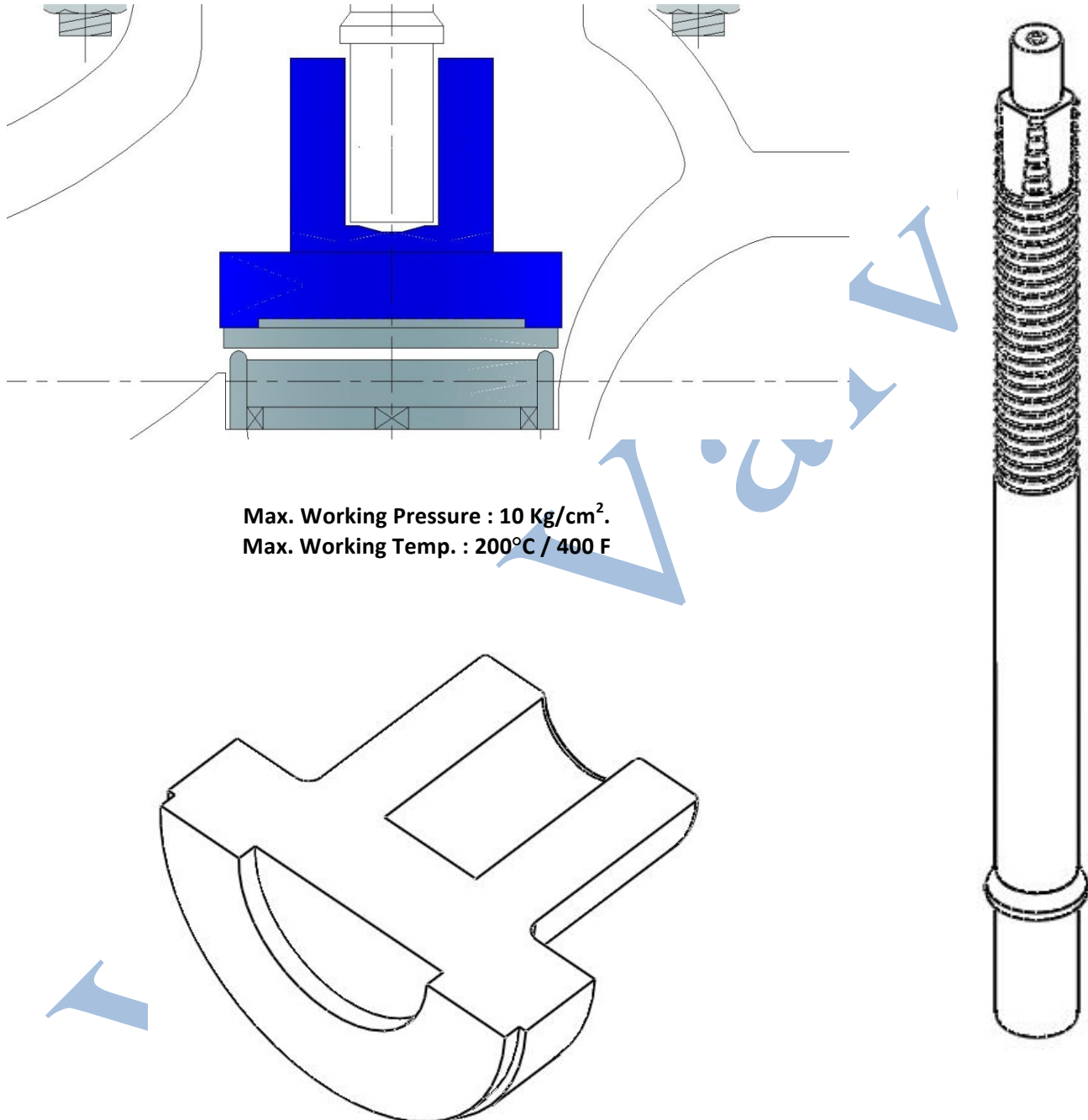
Nominal Size	L	D (Dia.)	H (Appx.)	T (Thickness)
mm	mm	mm	mm	mm
15	130	95	180	14
20	150	105	180	16
25	160	115	185	16
32	180	140	200	18
40	200	150	250	18
50	230	165	270	20
65	290	185	340	20
80	310	200	380	22
100	350	220	450	24
125	400	250	530	26
150	480	285	600	26

Figure No. 812-S

**C.I Globe Stop Cum
Non Return Valve**

V V[®]

PN 16 • Outside Screw & Yoke • Rising Stem • DIN: 2533



**Max. Working Pressure : 10 Kg/cm².
Max. Working Temp. : 200°C / 400 F**

Spindle & Seat Un- assembly

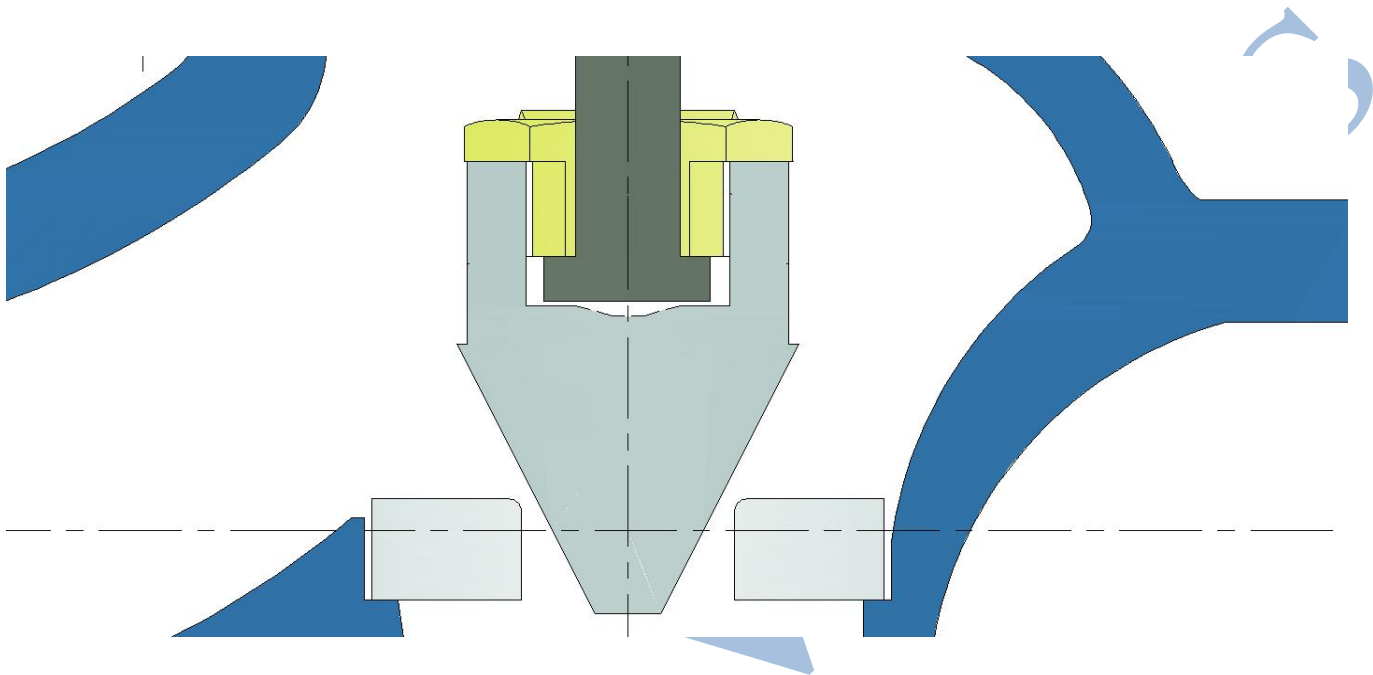
Renewable Seat (PTFE/RUBBER Disc can also made on demand)

Figure No. 812-N

**C.I Needle Valve/ Fine
Regulating Valve**

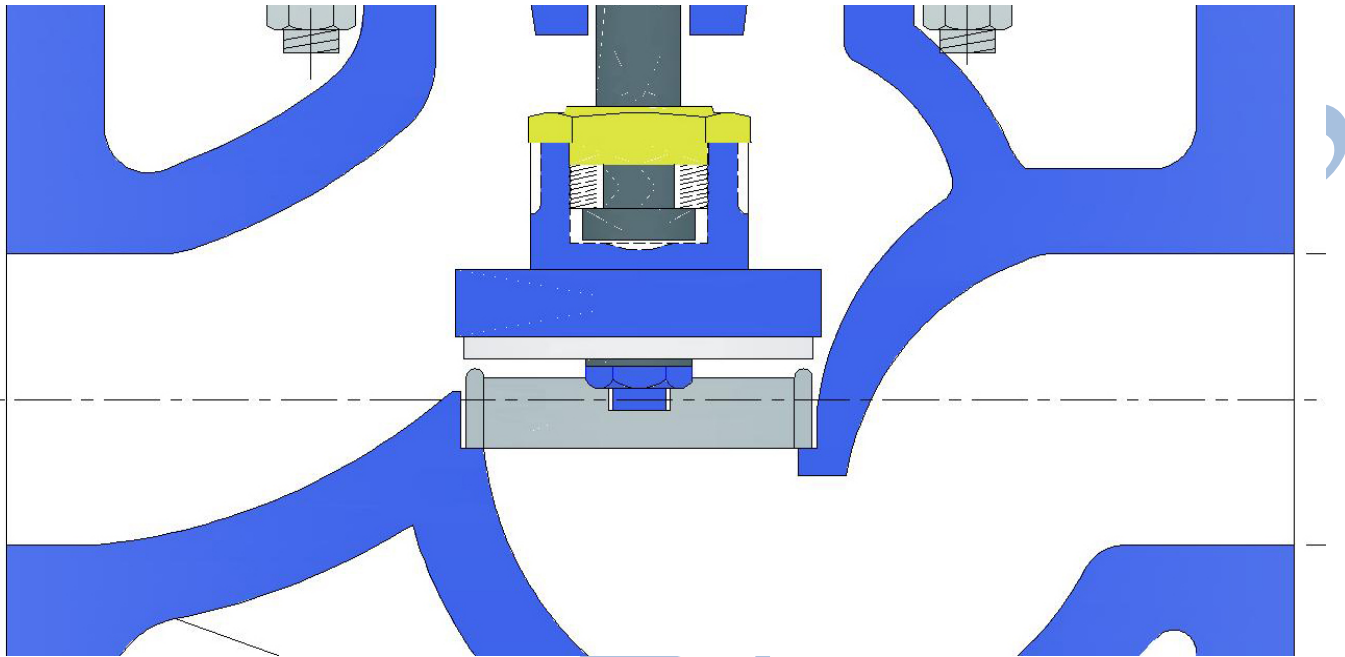
V V[®]

PN 16 • Outside Screw & Yoke • Rising Stem • DIN: 2533



Features

- Renewable Seat (S.S/G.M)
- Size Range : 15 mm- 150 mm
- Seating : S.S / G.M
- Stem : S.S AISI 410

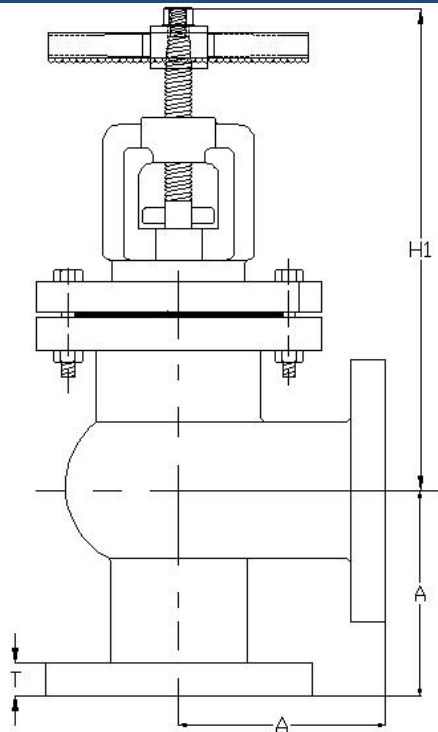
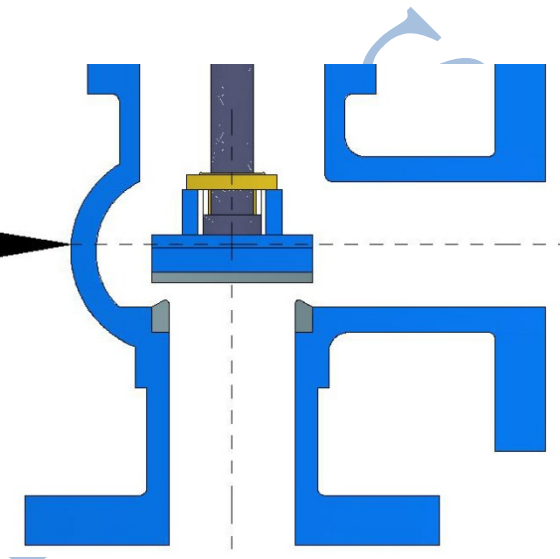


Max. Working Pressure : 10 Kg/cm².

Max. Working Temp. : 170°C

Features

- Renewable PTFE Disc / Rubber Disc can also be provided
- Size Range : 15 mm- 150 mm
- Seating : S.S / G.M
- Stem : S.S AISI 410
- For hot air/water/gas

Figure No. 813**C.I Angle Globe Valve****V V[®]****PN 16 • Outside Screw & Yoke • Rising Stem • DIN: 2533****DIRECTION
OF FLOW**

Max. Working Pressure : 10 Kg/cm².
Max. Working Temp. : 200°C / 400 F

Same can be provided with PTFE Disc or Rubber Disc.
Needle Valve in angle type can also be supplied.

Dimensions

Nominal Size	A	D (Dia.)	H1 (Appx.)	T (Thickness)
mm	mm	mm	mm	mm
15	80	95	165	14
20	95	105	165	16
25	100	115	165	16
32	105	140	195	18
40	115	150	210	18
50	125	165	245	20
65	145	185	270	20
80	155	200	300	22
100	175	220	350	24
125	200	250	385	26
150	225	285	435	26

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