



CS GLOBE VALVE FLANGE TYPE PN 25/40

Straight Pattern Globe Valve · Cast Steel GS-C25 · Stainless Steel Trim · Flanged PN40

BRAND: SW FLOW CONTROLS

SKU: p-0022

SIZE 1/2" TO 4"

PN40 / 40 BAR



FIG. 1 | CS GLOBE VALVE, FLANGED PN 25/40

PRODUCT OVERVIEW

The SWBM CS Globe Valve Flange Type PN 25/40 is a straight pattern globe valve to European standards for flow regulation and tight shut-off in steam, water, oil and gas pipelines. The disc moves at right angles to the seat, giving fine control of flow and a positive metal to metal seal when closed.

The body is cast steel GS-C25 (1.0619), the European equivalent of ASTM A216 WCB, with AISI 410 stainless steel stem, disc and seat. Face to face length is to EN 558 (ISO 5752) series 1, and flanges are drilled to PN40, which also mates with PN25 drilling up to DN150.

Valve type	Globe, straight pattern, OS&Y
Operation	Manual, handwheel
Body material	Cast steel GS-C25 (1.0619)
End connection	Flanged, EN 1092-1 / DIN 2501 PN40
Pressure rating	PN40
Size range	1/2" to 4" (DN15 to DN100)

TECHNICAL SPECIFICATION

Face to face	EN 558 / ISO 5752 series 1	Nominal pressure	PN40 (40 bar)
Flange drilling	EN 1092-1 / DIN 2501 PN40	Body test	60 bar
Flange face	Raised face	Seat test	40 bar
Stem	Rising, outside screw and yoke	Testing	EN 12266-1
Trim	Stainless steel AISI 410	Temperature range	-10°C to +400°C
Body equivalent	ASTM A216 WCB	Bonnet	Bolted



PRODUCT DATA SHEET

CS GLOBE VALVE FLANGE TYPE PN 25/40

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BILL OF MATERIALS

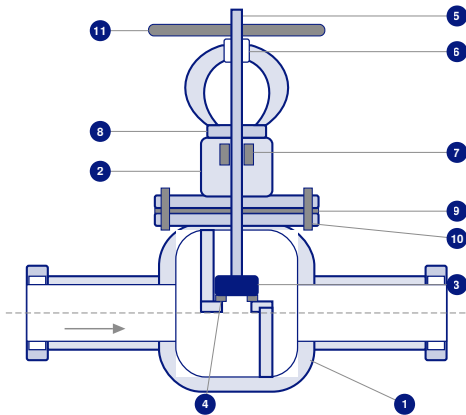


FIG. 2 | SECTIONAL ARRANGEMENT, FLOW LEFT TO RIGHT

#	COMPONENT	MATERIAL
1	Body	Cast steel GS-C25 (1.0619)
2	Bonnet	Cast steel GS-C25 (1.0619)
3	Disc	Stainless steel AISI 410
4	Seat	Stainless steel AISI 410
5	Stem	Stainless steel AISI 410
6	Yoke bush	Brass
7	Stem packing	Graphite
8	Gland	Steel
9	Bonnet gasket	Graphite with steel insert
10	Bonnet bolt / nut	Steel, 25CrMo4 / C35
11	Handwheel	Steel or cast iron

Screw down non-return (SDNR) version can be offered against enquiry.

DIMENSIONS AND WEIGHTS

SIZE	DN	L (MM)	D (MM)	C (MM)	BOLT HOLES	ØH (MM)	T (MM)	H (MM)	W (MM)	WEIGHT (KG)
1/2"	15	130	95	65	4	14	16	160	100	4.4
3/4"	20	150	105	75	4	14	18	165	100	5.7
1"	25	160	115	85	4	14	18	190	125	6.8
1.1/4"	32	180	140	100	4	18	18	200	125	8.3
1.1/2"	40	200	150	110	4	18	18	225	150	11
2"	50	230	165	125	4	18	20	260	150	16
2.1/2"	65	290	185	145	8	18	22	280	200	27
3"	80	310	200	160	8	18	24	320	200	31
4"	100	350	235	190	8	22	24	375	250	48

L = face to face length to EN 558 series 1, D = flange outside diameter, C = bolt circle diameter, Øh = bolt hole diameter, t = flange thickness, H = centreline to top of handwheel, valve open, W = handwheel diameter, PN40. Dimensions and weights are nominal and are given for guidance only. Certified drawings for the supplied make and size are issued on request. DN125 to DN300 can be offered against enquiry. DN200 and above are rated PN25.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	p-0022
Size	1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Flange	PN40, EN 1092-1 / DIN 2501
Pattern	Regular standard. SDNR on request
Order example	p-0022 / 2" (DN50) / PN40 / SS TRIM

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



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PRESSURE AND TEMPERATURE

-10°C to +120°C	40 bar
+200°C	35 bar
+300°C	28 bar
+400°C	21 bar

Allowable pressures for PN40 cast steel GS-C25 per DIN 2401. Intermediate values by interpolation. Confirm steam duty above +300°C with SWBM.

TYPICAL APPLICATIONS

- Oil and gas production and transfer lines
- Refinery and petrochemical process piping
- Steam, condensate and boiler feed systems
- Power plant and utility services
- Water treatment and pumping stations
- General industrial and marine piping

COMPLIANCE AND QUALITY

- Face to face to EN 558 / ISO 5752 series 1
- Flanges to EN 1092-1 / DIN 2501 PN40, raised face
- Pressure testing to EN 12266-1
- Body test 60 bar, seat test 40 bar
- 100% shell and seat tested prior to despatch
- Stainless steel AISI 410 trim
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear debris and weld slag
- Install with the flow arrow on the body pointing in the direction of flow
- Install with the stem vertical and the handwheel uppermost where possible
- Tighten flange bolts evenly in a crosswise sequence
- Suitable for throttling. Avoid long operation near the closed position to limit seat wear
- Adjust the gland bolts evenly if minor stem leakage appears. Keep the stem thread greased

COMPANY

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