



CI GATE VALVE CL125 BRASS SEAT

Gray Cast Iron Gate Valve · Brass Seat Rings · ASME B16.10 Face to Face · Rising Stem

BRAND: SW FLOW CONTROLS	SKU: SW-0409	CLASS 125	BRASS SEAT	DN40 TO DN600
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FIG. 1 | CI GATE VALVE CL125 BRASS SEAT

PRODUCT OVERVIEW

The CI Gate Valve CL125 is a metal seated wedge valve with renewable brass seat rings in both the body and the wedge. Metal seats suit hot water, oil and general industrial duty where a rubber wedge would not last, and the rings can be reground or replaced rather than scrapping the valve.

The body and bonnet are gray cast iron to ASTM A126 B, the stem is 2Cr13 stainless steel and the gland is packed with graphite. Face to face length and flange drilling follow the ASME pattern, so the valve fits standard Class 125 cast iron pipework.

Product type	Gate valve, flanged, rising stem
Flange class	Class 125
Body material	Gray cast iron, ASTM A126 B
Seat material	Brass, ASTM B16
Working temperature	Up to 120°C
Size range	DN40 to DN600

TECHNICAL SPECIFICATION

Manufacturing standard	ASME Class 125 pattern	Shell test	2.4 MPa
Face to face	ASME B16.10	Seat test	1.7 MPa
Body and bonnet	Gray cast iron, ASTM A126 B	Working temperature	Up to 120°C
Body and wedge seat rings	Brass, ASTM B16	Media	Water and oil
Wedge	Gray cast iron and brass	Gland packing	Graphite
Stem	Stainless steel 2Cr13	Size range	DN40 to DN600



PRODUCT DATA SHEET

CI GATE VALVE CL125 BRASS SEAT

Ref. SW-0409 | Rev. 01

BILL OF MATERIALS

#	COMPONENT	MATERIAL	#	COMPONENT	MATERIAL
1	Body	Gray cast iron, ASTM A126 B	11	Bolt	Carbon steel, ASTM A307
2	Body seat ring	Brass, ASTM B16	12	Nut	Carbon steel, ASTM A307
3	Wedge	Gray cast iron and brass, ASTM B62 and B16	13	Gland	Ductile iron, ASTM A536
4	Wedge seat ring	Brass, ASTM B16	14	Bolt	Carbon steel, ASTM A307
5	Stem	Stainless steel 2Cr13	15	Nut	Carbon steel, ASTM A307
6	Bonnet bolt	Carbon steel, ASTM A307	16	Stem nut	Gray cast iron, ASTM A126 B
7	Nut	Carbon steel, ASTM A307	17	Washer	Nylon
8	Gasket	Graphite	18	Handwheel	Gray cast iron, ASTM A126 B
9	Bonnet	Gray cast iron, ASTM A126 B	19	Locking nut	Carbon steel, ASTM A307
10	Packing	Graphite			

Seat rings are renewable in both the body and the wedge, which is the main advantage of the metal seated pattern over a resilient wedge. The catalogue heads the rating as 150LBS while the listing is Class 125; confirm which flange drilling is required at order stage.

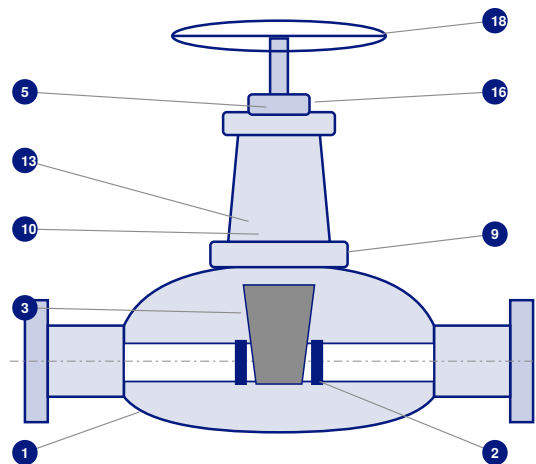


FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS NUMBERED PER THE BILL OF MATERIALS

ORDERING INFORMATION

FIELD	OPTIONS
Product description	CI Gate Valve CL125 Brass Seat
SKU	SW-0409
Size	DN40 to DN600
Flange class	Class 125
Body	Gray cast iron, ASTM A126 B
Seats	Renewable brass seat rings
Order example	SW-0409 / DN150 / CL125 / BRASS SEAT RINGS

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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DIMENSIONS AND WEIGHTS

DN	D (MM)	D1 (MM)	L (MM)	B (MM)	H (MM)	Z-D	D0 (MM)
40	127	98.5	165	15	310	4-Ø16	180
50	152	120.5	178	16	329	4-Ø19	200
65	178	139.5	190	17.5	372	4-Ø19	200
80	191	152.5	203	19	426	4-Ø19	250
100	229	190.5	229	24	496	8-Ø19	280
125	254	216	254	24	576	8-Ø22	320
150	279	241.5	267	25.5	630	8-Ø22	320
200	343	298.5	292	29	739	8-Ø22	350
250	406	362	330	30.5	877	12-Ø25	400
300	483	432	356	32	1011	12-Ø25	450
350	533	476	381	35	1152	12-Ø29	600
400	597	539.5	406	37	1284	16-Ø29	600
500	699	635	457	43	1350	20-Ø32	800
600	813	749.5	508	48	1350	20-Ø35	800

D = flange diameter, D1 = bolt circle, L = face to face, b = flange thickness, H = overall height with the valve open, Z-d = number and diameter of bolt holes, D0 = handwheel diameter. Figures are taken from the manufacturer catalogue and are nominal. Certified drawings are issued on request.

COMPLIANCE AND QUALITY

- Face to face to ASME B16.10
- Renewable brass seat rings
- Shell test at 2.4 MPa
- Seat test at 1.7 MPa
- Stainless steel 2Cr13 stem
- Material certificate available on request

INSTALLATION

- Check that gaskets, bolts and flange faces are clean before assembly
- Tighten flange bolts evenly in a diagonal sequence
- Support the adjacent pipework so the valve carries no bending load
- Install with the stem vertical wherever possible
- Leave headroom for the rising stem and handwheel

TYPICAL APPLICATIONS

- Hot and cold water isolation
- Oil and general utility service
- Pump station and plant room isolation
- Firefighting mains
- HVAC and chilled water circuits
- General industrial pipework

OPERATION AND MAINTENANCE

- Operate fully open or fully closed, never use a gate valve to throttle
- Open and close slowly, never use a bar or extension on the handwheel
- Back the handwheel a quarter turn off the fully open stop
- Exercise the valve periodically on lines that are rarely operated

COMPANY

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