



CI GATE VALVE PN16 DIN F4

Resilient Seated Gate Valve · DIN 3352 · DIN 3202 F4 Face to Face · EN 1092-2 PN16 Flanges

BRAND: SW FLOW CONTROLS	SKU: SW-0407	DIN 3352	F4 FACE TO FACE	DN50 TO DN600
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FIG. 1 | CI GATE VALVE PN16 DIN F4

PRODUCT OVERVIEW

The DIN F4 gate valve is a resilient seated wedge valve for water distribution. The wedge is ductile iron fully encapsulated in EPDM, so it seals against the smooth epoxy coated bore of the body rather than against a metal seat ring. There is no seat groove to trap grit, which is why this pattern is specified on buried and dirty water mains.

The short F4 face to face length keeps chamber and pit sizes down, and the non rising stem means the valve needs no headroom above the handwheel. Design is to DIN 3352, flanges to EN 1092-2 PN16 and testing to DIN 3230.

Product type	Resilient seated gate valve, non rising stem
Design standard	DIN 3352
Face to face	DIN 3202 F4
Flange standard	EN 1092-2 PN16
Body material	Ductile iron A536 65-45-12
Size range	DN50 to DN600

TECHNICAL SPECIFICATION

Design standard	DIN 3352	Stem	Stainless steel 2Cr13
Face to face	DIN 3202 F4	Stem nut	ZCuZn38Mn2Pb2 bronze
Flange drilling	EN 1092-2 PN16	Stem sealing	NBR O rings
Test standard	DIN 3230	Operation	Handwheel, non rising stem
Body and cover	Ductile iron A536 65-45-12	Pressure rating	PN16
Wedge	Ductile iron A536, EPDM encapsulated	Size range	DN50 to DN600



PRODUCT DATA SHEET

CI GATE VALVE PN16 DIN F4
Ref. SW-0407 | Rev. 01

BILL OF MATERIALS

#	COMPONENT	MATERIAL	#	COMPONENT	MATERIAL
1	Body	Ductile iron A536 65-45-12	8	O ring (4 nos.)	NBR
2	Wedge	Ductile iron A536 65-45-12, EPDM encapsulated	9	Head cover	Ductile iron 65-45-12
3	Stem nut	ZCuZn38Mn2Pb2	10	Handwheel	Ductile iron 65-45-12
4	Stem	Stainless steel 2Cr13	11	Hexagon bolt, internal	Q235-A
5	Seal gasket	NBR	12	Gasket	Stainless steel 304
6	Cover	Ductile iron 65-45-12	13	Hexagon bolt	Stainless steel 304
7	Split collar	ZCuZn38Mn2Pb2			

This is a resilient seated valve: the wedge is rubber encapsulated ductile iron and there is no brass seat ring. The product listing name says brass seat, which does not match this catalogue. Confirm which construction is required before the sheet is issued to a customer.

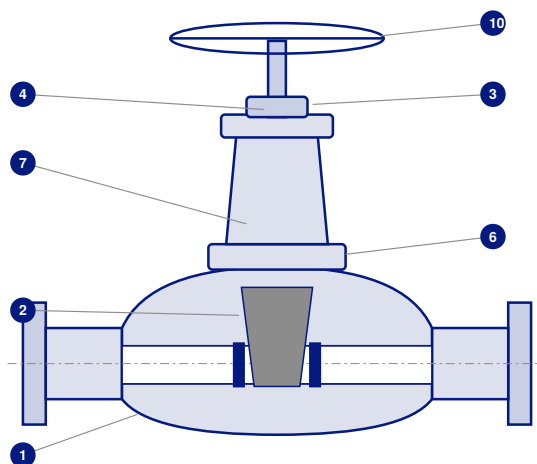


FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS NUMBERED PER THE BILL OF MATERIALS

ORDERING INFORMATION

FIELD	OPTIONS
Product description	CI Gate Valve PN16 DIN F4
SKU	SW-0407
Size	DN50 to DN600
Rating	PN16
Face to face	DIN 3202 F4
Wedge	EPDM encapsulated ductile iron
Order example	SW-0407 / DN150 / PN16 / F4 / RESILIENT WEDGE

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



PRODUCT DATA SHEET

CI GATE VALVE PN16 DIN F4

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DIMENSIONS AND WEIGHTS

DN	L F4 (MM)	D (MM)	D1 (MM)	B (MM)	N-ØD0	H (MM)	D0 (MM)	WEIGHT (KG)
50	150	165	125	19	4-Ø19	212	160	8.5
65	170	185	145	19	4-Ø19	242	160	10.5
80	180	200	160	19	8-Ø19	264	200	14.5
100	190	220	180	19	8-Ø19	303	200	18.2
125	200	250	210	19	8-Ø19	406	260	25
150	210	285	240	19	8-Ø23	414	260	31
200	230	340	295	20	12-Ø23	489	330	49
250	250	405	355	22	12-Ø28	615	400	78
300	270	460	410	25.4	12-Ø28	685	400	105
350	290	520	470	26.5	16-Ø25	802	465	161
400	310	580	525	28	16-Ø30	907	465	220
450	330	640	585	30	20-Ø30	997	465	295
500	350	715	650	31.5	20-Ø34	1110	630	444
600	390	840	770	36	20-Ø41	1288	630	600

L = face to face per DIN 3202 F4, D = flange diameter, D1 = bolt circle, b = flange thickness, N-Ød0 = number and diameter of bolt holes, H = overall height, D0 = handwheel diameter. The PN16 column is shown where the catalogue gives separate PN10 and PN16 values. Figures are taken from the manufacturer drawing BZ45X10/16 and are nominal.

COMPLIANCE AND QUALITY

- Design to DIN 3352
- Face to face to DIN 3202 F4
- Flange drilling to EN 1092-2 PN16
- Inspection and test to DIN 3230
- EPDM encapsulated wedge, full bore when open
- 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
- Flush the line before first operation to clear grit from the bore

TYPICAL APPLICATIONS

- Buried and chamber mounted water mains
- Potable water distribution
- Firefighting ring mains
- Irrigation and landscape networks
- Pump station isolation
- District cooling distribution

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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