



CI ANGLE VALVE PN16 DIN

Cast Iron Angle Pattern Stop Valve · PN16 DIN Flanged · Stainless Steel Trim

BRAND: SW FLOW CONTROLS

SKU: SW-0371

SIZE DN25 TO DN150

PN16 / DIN 2501



FIG. 1 | CI ANGLE VALVE PN16 DIN, FLANGED INLET AND OUTLET



SUPPLIED UNDER THE
SW FLOW CONTROLS BRAND

PRODUCT OVERVIEW

The SWBM CI Angle Valve PN16 DIN is a cast iron angle pattern stop valve with DIN 2501 flanges on both ports. The ports sit at 90 degrees, so the valve replaces an elbow and a straight valve with a single casting, cutting pressure drop and shortening the pipe run.

The seat and disc are stainless steel SS420, hardened and renewable, giving tight shut off on water, oil and steam up to 220 degrees Celsius. A flexible graphite gland packing runs against a brass packing bush and a brass bonnet bush carries the rising brass stem, so the valve stays serviceable in place without removing it from the line.

Valve type	Angle pattern stop valve
Operation	Manual, rising stem handwheel
Body material	Cast iron, GG25
Trim	Stainless steel SS420, renewable
End connection	DIN 2501 PN16 flanged
Size range	DN25 to DN150

TECHNICAL SPECIFICATION

Flange ends	DIN 2501, PN16	Nominal pressure	PN16
Face to face	DIN 3202	Working medium	Oil, water and steam
Body, bonnet, gland	Cast iron GG25	Working temperature	220°C maximum
Disc and seat	Stainless steel SS420	Shell test pressure	2.40 MPa
Stem	Brass SOM59	Seat test pressure	1.76 MPa
Bonnet and packing bush	Brass C3771BD	Back seat test pressure	1.76 MPa
Gland packing	Flexible graphite	Country of origin	Advised at time of quotation



PRODUCT DATA SHEET

CI ANGLE VALVE PN16 DIN
Ref. SW-0371 | Rev. 01

BILL OF MATERIALS

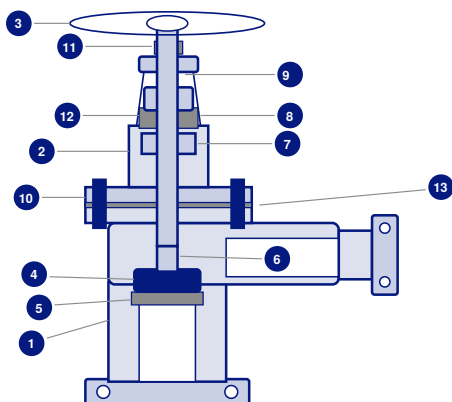


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	Cast iron, GG25
2	Bonnet	Cast iron, GG25
3	Handwheel	Cast iron, GG25
4	Disc	Stainless steel, SS420
5	Seat	Stainless steel, SS420
6	Disc lock washer and nut	Stainless steel, SS304
7	Bonnet bush and packing bush	Brass, C3771BD
8	Packing gland	Cast iron, GG25
9	Stem	Brass, SOM59
10	Bolt and nut	Steel, SS400
11	Washer and nut	Steel, SS400
12	Packing	Flexible graphite
13	Gasket	Non asbestos

Materials are as listed on the manufacturer drawing. Items 6, 7, 10 and 11 group the matching washers, nuts and bushes.

DIMENSIONS

SIZE	DN	L (MM)	FLANGE D	BOLT C	RAISED FACE G	BOLT HOLES	FLANGE T	RF F	HANDWHEEL W	LIFT M
1"	25	100	115	85	68	4-14	16	2	80	7
1.1/4"	32	105	140	100	78	4-18	18	2	100	9
1.1/2"	40	115	150	110	88	4-18	18	3	120	11
2"	50	125	165	125	102	4-18	20	3	140	14
2.1/2"	65	145	185	145	122	4-18	20	3	140	18
3"	80	155	200	160	133	8-18	22	3	160	24
4"	100	175	220	180	158	8-18	24	3	180	35
5"	125	200	250	210	184	8-18	26	3	200	44
6"	150	225	285	240	212	8-22	26	3	200	57

All dimensions in mm, from the manufacturer drawing. L = flange face to valve centreline, equal on both ports. W = handwheel diameter, m = disc lift. Flanges are DIN 2501 PN16 raised face. Sizes 1/2", 3/4" and 8" are listed on the website but are not on this drawing, so certified dimensions must be requested for those.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0371
Size	DN25 to DN150
Flange	DIN 2501 PN16, raised face
Trim	Stainless steel SS420
Order example	SW-0371 / DN80 / PN16 / DIN 2501

Stock held in Dubai. Contact our sales desk for pricing and certification.



PRODUCT DATA SHEET

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PRESSURE AND TEMPERATURE

Nominal pressure	PN16
Working temperature	220°C maximum
Working medium	Oil, water and steam
Shell hydrostatic test	2.40 MPa
Seat and back seat test	1.76 MPa

Ratings are as published on the manufacturer drawing. Cast iron bodies are not recommended for shock loading, for service below zero or for hazardous media. Confirm the duty with SWBM before use outside these conditions.

TYPICAL APPLICATIONS

- Water distribution and pumping stations
- Steam and condensate service to 220°C
- Fuel oil and lubricating oil lines
- Boiler house and plant room piping
- Marine and offshore utility systems
- General industrial process pipework

COMPLIANCE AND QUALITY

- Flange dimensions and drilling to DIN 2501, PN16
- Face to face lengths to DIN 3202
- Body, bonnet and gland cast in GG25 grey iron
- Renewable stainless steel SS420 disc and seat
- Hydrostatic shell, seat and back seat test before despatch
- Non asbestos body gasket and flexible graphite gland packing
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Install so the flow enters under the disc, following the body arrow
- The angle body replaces an elbow, so allow for the change of direction in the layout
- Bolt up with a gasket suited to DIN 2501 raised face flanges
- Support the adjacent pipework so the valve carries no pipe load
- Open and close with the handwheel only, never with a bar or wrench
- Cast iron is brittle, protect the valve from impact and from freezing

COMPANY

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