

CAST IRON AIR VENT HEAD DISC-A JIS 5K

Tank Vent Head, Disc Type A · FC200 Cast Iron Body · JIS 5K Flanged

BRAND: SW FLOW CONTROLS

SKU: SW-0370

SIZE 50A TO 300A

JIS 5K FLANGED



FIG. 1 | CAST IRON AIR VENT HEAD DISC-A JIS 5K, 65A


 SUPPLIED UNDER THE
 SW FLOW CONTROLS BRAND

PRODUCT OVERVIEW

The SWBM Cast Iron Air Vent Head Disc-A is a marine tank vent fitting installed at the top of tank air pipes. It lets air escape as a tank fills and admits air as it empties, so the tank is protected against overpressure and against vacuum collapse during discharge.

The float disc rises and seals against the seat packing when water reaches the head, preventing sea water and rain from entering the tank. A stainless steel wire net over the side opening keeps out debris and acts as a flame screen barrier. The body and top cover are FC200 grey cast iron and all internal working parts are stainless steel.

Product type	Air vent head, disc type A
Function	Air release, air intake, water seal
Body material	FC200 grey cast iron
Internal parts	SUS304 and SUS316 stainless steel
End connection	JIS 5K flat face flange
Size range	50A to 300A (2" to 12")

TECHNICAL SPECIFICATION

Design type	Disc-A float type vent head	Mounting	Vertical, flange down on air pipe
Flange standard	JIS B2210 / JIS B2220, 5K FF	Closing element	Free floating disc
Body and top cover	FC200	Screen	Stainless steel wire net with frame
Disc and guide bar	SUS304	Lifting eye bolt	SS400, fitted 100A and above
Wire net	SUS316	Surface finish	Primer painted
Seat and body packing	NBR	Flange face	Flat face, full face gasket
Fasteners	SUS304	Country of origin	Korea



PRODUCT DATA SHEET

CAST IRON AIR VENT HEAD DISC-A JIS 5K

Ref. SW-0370 | Rev. 01

BILL OF MATERIALS

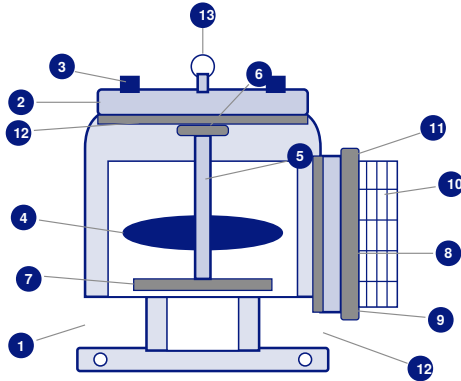


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	FC200
2	Top cover	FC200
3	Hex. bolt and washer	SUS304
4	Disc	SUS304
5	Guide bar	SUS304
6	Spring washer	SUS304
7	Seat packing	NBR
8	Cover	SUS304
9	Hex. bolt	SUS304
10	Wire net	SUS316
11	Net frame	SUS304
12	Packing (2 nos.)	NBR
13	Lifting eye bolt	SS400

Item 13, the lifting eye bolt, is fitted on 100A and above. Sizes 100A and above carry two covers, two wire nets and two net frames.

DIMENSIONS

SIZE	BORE D	FLANGE D	BOLT C	FLANGE T	BOLT HOLES	A	B	H	H1	WALL T1
50A	50	130	105	14	4-15	177	135	197	127	7
65A	65	155	130	14	4-15	203	146	226	146	7
80A	80	180	145	14	4-19	231	156	266	176	7
100A	100	200	165	16	8-19	241	250	238	160	8
125A	125	235	200	16	8-19	266	288	266	180	8
150A	150	265	230	18	8-19	312	330	302	208	9
200A	200	320	280	20	8-23	390	432	382	269	9
250A	250	385	345	22	12-23	471	546	452	314	9
300A	300	430	390	22	12-23	550	616	530	367	10

All dimensions in mm, taken from the manufacturer drawing. A = overall width, B = overall depth, H = overall height, H1 = height to the top of the side opening. Sizes 350A to 450A are available against enquiry and weights are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0370
Size	50A, 65A, 80A, 100A, 125A, 150A, 200A, 250A, 300A
Type	Disc-A float type
Flange	JIS 5K flat face, SUS316 wire net standard
Order example	SW-0370 / 100A / DISC-A / JIS 5K

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



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SERVICE CONDITIONS

Flange rating	JIS 5K
Service	Tank air pipe venting, atmospheric
Sealing element	Free floating disc on NBR seat
Mounting position	Vertical, on top of air pipe

The air vent head is a venting device and is not a pressure containing valve. The disc seals under water ingress and reseats by gravity. Confirm the required flow area, closing head and class approval with SWBM for the specific tank and vessel.

TYPICAL APPLICATIONS

- Fuel oil and diesel oil tank air pipes
- Ballast and fresh water tank venting
- Lubricating oil and sludge tank venting
- Shipbuilding and ship repair
- Offshore and marine deck piping
- Shore based tank farm ventilation

COMPLIANCE AND QUALITY

- Body and top cover cast in FC200 grey iron
- Internal working parts in SUS304 and SUS316
- Flange drilling to JIS 5K flat face
- Manufactured under Lloyds Register, DNV GL, Bureau Veritas, Korean Register and ABS approvals
- Class certification supplied against order where required
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Mount vertically on the tank air pipe with the flange facing down
- Use a full face gasket suited to JIS 5K flat face flanges
- Keep the side opening clear of obstructions and lashings
- Do not paint over the wire net or the disc seating face
- Inspect the disc, seat packing and wire net at each dry docking
- Replace the NBR packing whenever the top cover is removed

COMPANY

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