

DI BALL FLOAT STEAM TRAP, FLANGED

Lever Ball Float Steam Trap · Ductile Iron Body · PN16 Flanged · Thermostatic Air Vent

BRAND: SW FLOW CONTROLS

REF: P-0093

SIZE 1/2" TO 1"

PN16 / 16 BAR



FIG. 1 | DI BALL FLOAT STEAM TRAP, PN16 FLANGED

PRODUCT OVERVIEW

The SWBM DI Ball Float Steam Trap is a mechanical trap that discharges condensate continuously as it forms, without allowing live steam to pass. A stainless steel float rises with the condensate level inside the body and opens the valve head through a lever linkage, giving a modulating discharge that follows the load rather than a cyclic dump.

The ductile iron body carries a PN16 flanged connection for bolted installation and in line maintenance. A thermostatic air vent in the top of the body clears air and incondensable gases on start-up, so the plant reaches working temperature quickly. Continuous drainage keeps the condensate film off the heat transfer surface and protects the line against water hammer and corrosion.

Trap type	Lever ball float, mechanical
Operation	Continuous modulating discharge
Body material	Ductile iron EN-GJS-400-15
End connection	Flanged PN16, raised face
Pressure rating	PN16 (16 bar allowable)
Size range	1/2" to 1" (DN15 to DN25)

TECHNICAL SPECIFICATION

Design standard	ISO 6552 / EN 26704	Body test	1.5 x PMA
Face to face	EN 26554	Seat test	Steam tight at working differential
Flange drilling	EN 1092-2 PN16	Operating position	Horizontal, arrow in flow direction
Flange facing	Raised face, form B1	Temperature range	0°C to +250°C
Testing	EN 26948 / ISO 6948	Internals	Stainless steel, replaceable
Air venting	Integral thermostatic capsule	Finish	Heat resistant primer, black



PRODUCT DATA SHEET

DI BALL FLOAT STEAM TRAP, FLANGED
Ref. P-0093 | Rev. 01

BILL OF MATERIALS

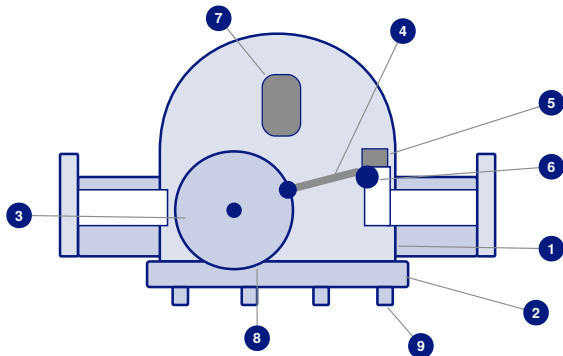


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	Ductile iron, EN-GJS-400-15 (GGG40)
2	Cover plate	Ductile iron, EN-GJS-400-15 (GGG40)
3	Float ball	Stainless steel, AISI 304
4	Lever assembly	Stainless steel, AISI 304
5	Valve seat	Stainless steel, AISI 420, hardened
6	Valve head	Stainless steel, AISI 420, hardened
7	Thermostatic air vent	Stainless steel capsule
8	Cover gasket	Reinforced graphite
9	Cover bolts	Steel, property class 8.8

Air vent, steam lock release and integral strainer variants are available on request.
Internals are fully replaceable in line without removing the body from the pipework.

DIMENSIONS AND WEIGHTS

SIZE	DN	FLANGE	L (MM)	H (MM)	W (MM)	WEIGHT (KG)
1/2"	15	PN16	150	150	96	5.5
3/4"	20	PN16	150	150	96	5.7
1"	25	PN16	160	165	105	6.6

L = face to face length, H = overall height, W = overall width across the body. Dimensions and weights are nominal and are given for guidance only. Certified drawings for the supplied make and size are issued on request. Face to face lengths follow the basic series of EN 26554. Heights and weights are indicative pending the certified drawing for the supplied make.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	P-0093
Size	1/2", 3/4", 1"
Connection	Flanged PN16, raised face
Orifice	4.5 bar, 10 bar or 13 bar differential
Options	Steam lock release, integral strainer, insulation jacket
Order example	P-0093 / 1" / PN16 / 10 BAR ORIFICE

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



PRESSURE AND TEMPERATURE

Maximum allowable pressure (PMA)	16 bar g
Maximum allowable temperature (TMA)	250°C
Maximum operating pressure (PMO)	13 bar g
Maximum differential pressure (Δ PMX)	4.5, 10 or 13 bar, by orifice

The differential pressure across the trap must not exceed the Δ PMX of the orifice fitted. State the working pressure and the condensate load when ordering so that the correct orifice is supplied. Capacity curves are issued on request.

TYPICAL APPLICATIONS

- Process heating and heat exchangers
- Air handling units, calorifiers and unit heaters
- Steam jacketed vessels and reaction pans
- Temperature controlled plant with modulating steam supply
- Laundry, food and beverage process equipment
- General industrial steam distribution and drainage

COMPLIANCE AND QUALITY

- Design and manufacture to ISO 6552 and EN 26704
- Testing to EN 26948 / ISO 6948
- Ductile iron body to EN 1563 (EN-GJS-400-15)
- Stainless steel float, lever and valve internals
- 100% pressure and seat tested prior to despatch
- Material test certificate EN 10204 3.1 on request
- Continuous discharge, cold water and air venting on start-up

INSTALLATION AND OPERATION

- Install horizontally with the body arrow in the direction of flow
- The trap must be mounted below the drain point of the equipment
- Fit an isolation valve, strainer and check valve to complete the trap station
- Provide a sight glass or test valve downstream to allow discharge to be checked
- Do not lift or support the trap by the cover or the air vent housing
- Blow the line through before start-up to clear scale, weld slag and pipe debris

COMPANY

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