STEAM & CONDENSATE | NV-ST-142345

Inverted Bucket Steam Trap - Threaded



Catalogue illustration; selected build may vary.

SIZE RANGE

1/2" - 1 1/4"

NOMINAL CLASS

PN25

BODY OPTIONS

WCB / CF8 / CF8M

CONNECTION

Threaded

TEMPERATURE

Up to 350°C

Threaded inverted-bucket steam trap for condensate removal from steam lines. Specify the thread, start-up and running condensate loads, inlet pressure, return-line backpressure and installation orientation.

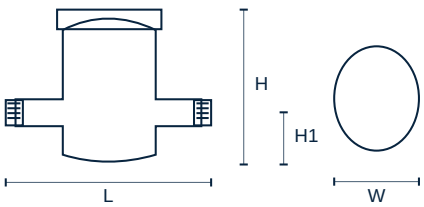
Product selection

Parameter	Listed options
Operation Type	Mechanical inverted bucket
Reference Model	SBT10AT / SBT20T / SBT30T

Select options together. The named dimensional reference and approved order drawing govern the supplied configuration.

> DIMENSIONAL REFERENCE: VMV SBT10A/SBT20/SBT30 mechanical inverted-bucket reference family, PN25, WCB/CF8/CF8M. Select model and port size together. Pilot SBT40/SBT50 and legacy Lonze L88x data are different constructions.

Dimension key - schematic, not to scale



Use the named model table and approved order drawing for dimensions.

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Mechanical bucket reference dimensions

Model	Published sizes	L (mm)	H (mm)	H1 (mm)	W (mm)	Mass (kg)
SBT10AT	DN15-DN25	130	186	113	100	4
SBT20T	DN15-DN25	170	245	133	140	8
SBT30T	DN25-DN32	210	320	187	174	15

VMV steam catalogue, PDF pages 24-25 (printed pages 25-28). Dimensions apply to the named model and suffix: F = flanged, T = threaded. SBT20F has published H = 235 mm; SBT20T has H = 245 mm. DN15/20/25/32 correspond to nominal 1/2, 3/4, 1 and 1 1/4 inch. Thread form and engagement require the approved order drawing.

Published pressure and temperature limits

Reference model	Nominal class	Max. operating pressure (bar)	Max. operating temperature (°C)	Published shell P/T point
SBT10AT / SBT20T / SBT30T	PN25	16	350	24.5 bar at 200°C; 10.3 bar at 450°C

Nominal pressure class describes the reference body. Operating limits, shell limits and test pressures are different quantities. Maximum pressure and maximum temperature are separate published limits; they are not a simultaneous operating point. Confirm the complete pressure-temperature envelope, selected orifice and backpressure for the duty.

Reference material list

Component	Published grades
Body	WCB / CF8 / CF8M
Bonnet	A105 / F304 / F316 (SBT10A/SBT30); WCB / F304 / F316 (SBT20)
Disc	440C + 304
Seat	420
Other internal parts	304

Reference alternatives are listed as published; the exact combination must be stated in the order bill of materials.

Configuration and service requirements

- Dimensions apply to the named reference construction. Confirm the selected material, trim, connection standard and approved order drawing before installation. H values marked approximate are reproduced as approximate; no open/closed-stem clearance is inferred.

- Nominal pressure class describes the reference body. Operating limits, shell limits and test pressures are different quantities. Maximum pressure and maximum temperature are separate published limits; they are not a simultaneous operating point. Confirm the complete pressure-temperature envelope, selected orifice and backpressure for the duty.

- SBT10A/SBT20/SBT30 are mechanical inverted-bucket models. A pilot-operated trap is a different construction and requires a separate selection.

- Choose reference model before port size. Provide running and start-up load, inlet pressure, backpressure and selected orifice for sizing. No unmapped capacity band is used.