STEAM & CONDENSATE | NV-ST-142318

Inverted Bucket Steam Trap - Flanged



Catalogue illustration; selected build may vary.

SIZE RANGE
DN15-DN50

NOMINAL CLASS
PN25

BODY OPTIONS
WCB / CF8 / CF8M

CONNECTION
Flanged

TEMPERATURE
Up to 350°C

Flanged inverted-bucket steam trap for condensate removal from steam lines. Select capacity from the start-up and running condensate loads at the available differential pressure, and confirm materials and installation orientation.

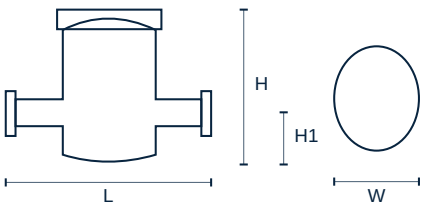
Product selection

Parameter	Listed options
Operation Type	Mechanical inverted bucket
Reference Model	SBT10AF / SBT20F / SBT30F

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)
SBT10AF	DN15-DN25	190	186	113	100	6.5
SBT20F	DN15-DN40	230	235	133	140	10.5
SBT30F	DN25-DN50	270	320	187	174	19.5

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. The union of these model ranges is DN15-DN50.

Published pressure and temperature limits

Reference model	Nominal class	Max. operating pressure (bar)	Max. operating temperature (°C)	Published shell P/T point
SBT10AF / SBT20F / SBT30F	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.