

STEAM & CONDENSATE | NV-ST-142374

Thermodynamic Disc Steam Trap - Flanged



SIZE RANGE

DN15 - DN25

NOMINAL CLASS

PN25 / PN63 / PN100

BODY OPTIONS

A105 / F304 / F316 / F11

CONNECTION

Flanged

TEMPERATURE

350°C (PN25/PN63); 420°C (PN100/F11)

Catalogue illustration; selected build may vary.

Flanged thermodynamic disc steam trap for condensate removal from steam pipework. Provide the condensate load, inlet pressure and return-line backpressure, and confirm the selected material, pressure rating and installation orientation.

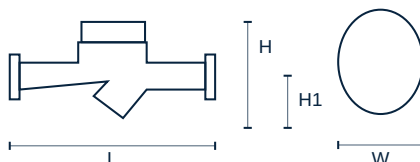
Product selection

Parameter	Listed options
Reference Model	STD16F / STD42F / STD80F

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

DIMENSIONAL REFERENCE: VMV forged thermodynamic disc reference family. PN25 uses STD16; PN63 uses STD42; PN100 (flanged only) uses F11 STD80. Different constructions retain separate dimensions and operating limits.

Dimension key - schematic, not to scale



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

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Thermodynamic disc reference dimensions

Model	Sizes	Class	Body grades	L (mm)	H (mm)	H1 (mm)	W (mm)	Mass (kg)
STD16F	DN15 / DN20 / DN25	PN25	A105 / F304 / F316	150	120	68	48	2.5-3
STD42F	DN15 / DN20 / DN25	PN63	A105 / F304 / F316	150	126	68	55	5.5
STD80F	DN15 / DN20 / DN25	PN100	F11	190	112	25	80	7.5

VMV steam catalogue, PDF pages 21-22 (printed pages 20-22). Each row covers all listed port sizes. STD16 mass is a published family range, not a mass assigned to each DN. L is the connection-to-connection length; H/H1/W follow the dimension key. Flanged models only.

Published pressure and temperature limits

Reference model	Nominal class	Max. operating pressure (bar)	Max. operating temperature (°C)	Published shell P/T point
STD16F	PN25	16	350	24.5 bar at 200°C; 10.3 bar at 450°C
STD42F	PN63	42	350	62.7 bar at 200°C; 26 bar at 450°C
STD80F	PN100	80	420	98 bar at 200°C; 72.9 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.

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.

- PN25 / PN63 reference bodies: A105, F304 or F316. PN100 reference body: F11 only. Select pressure class before body material.

- Specify running and start-up condensate load, inlet pressure, backpressure and the required connection standard. Capacity requires the selected duty; no universal kg/h value is stated.