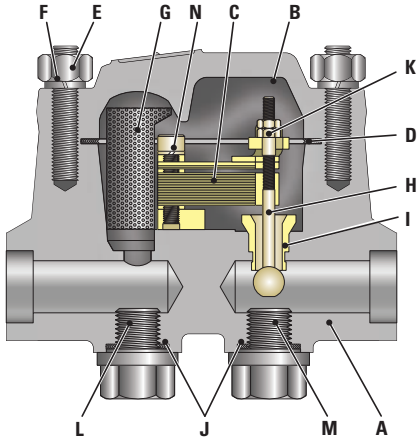


VELAN FORGED BIMETALLIC N150-300 STEAM TRAPS



STANDARD MATERIALS

PART	MATERIALS
A Body	Forged carbon steel A105 (C. Max. 0.25) Forged alloy steel F22
B Cover	Same as body material
C Bimetal element	Truflex GB-14
D Cover gasket	S/S 321 spiral wound with graphite filler
E Cover stud ⁽¹⁾	Chrome moly. alloy
F Cover nut ⁽¹⁾	Carbon steel, alloy steel
G Strainer	Stainless steel
H Stem and ball	Ss, ball valve 58Rc
I Seat	SS hardfaced Stellite 6
J Plug gasket	S/S 321 spiral wound with graphite filler
K Adjusting nut and locknut	Stainless steel
L Strainer blow down plug	Carbon steel or chrome moly. steel
M Fixing screw and washer	Stainless steel
N Fixing screw and washer	Stainless steel

(1) B7/2H (A105), B16/Gr.4 (F22).

APPLICATIONS

Type N steam traps resolve all problems with high pressure steam trapping on superheated steam lines in thermal power plants or aboard ships. Over 1,100 U.S. Navy ships have used Velan steam traps.

- Steam main drainage
- Turbine drains
- Desuperheater
- High pressure processing
- General high pressure/temperature service

CONNECTIONS

- Screwed
- Socketweld
- Buttweld
- Flanged

Type N150/300

ENGINEERING DATA

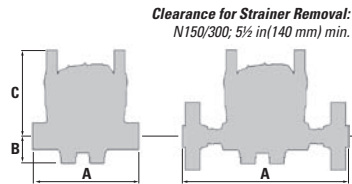
PRESSURE RANGE ⁽³⁾ psi/bar	PMO psi/bar	MATERIAL	MAX TEMP F/C	ORIFICE in/mm	MAX CAPACITY lb/hr/kg/hr
0-150 (0-10.5)	150 (10.5)	A105 ⁽¹⁾	850 ⁽²⁾ 454	1/2 12.7	2,800
150-300 (10.5-21)	300 (21)				1,272
					3,500
					1,590

(1) Also available in: F22, max temp. 1050°F (565°C).

(2) Permissible, but not recommended for prolonged use above 800°F (426°C).

(3) Pressure range indicated in the above table is the preferred operating range, however the trap is functional from Ops to its maximum operating pressure.

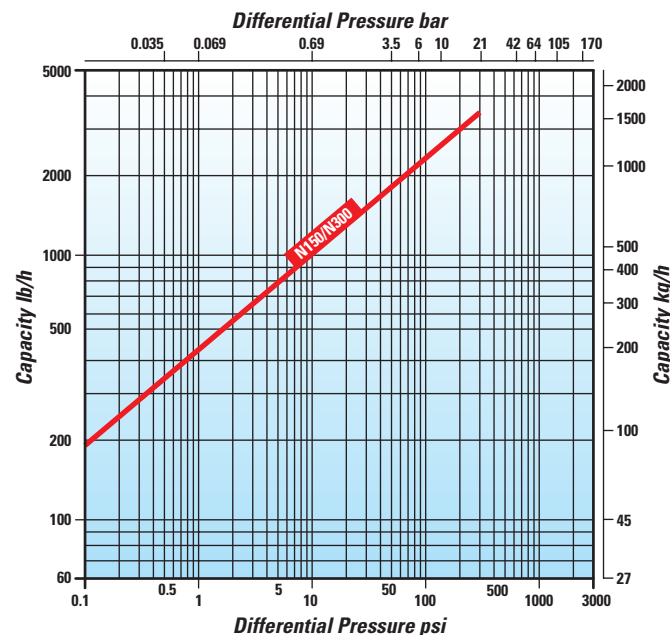
Maximum body design condition:
 PMA = Maximum allowable pressure: ANSI/ASME 400
 1000psi@100°F (69bar.g@38°C)
 TMA = Maximum allowable temperature: 800°F (427°C) – A105
 1050F (565C) – F22
 1500psi.g (103bar)
 Maximum cold hydrostatic test pressure:
 TMO = Maximum operating temperature = TMA
 PMO = Maximum operating pressure: (See Table)



DIMENSIONS & WEIGHTS

SIZE in/mm	A FACE TO FACE			B CENTER TO BOTTOM	C CENTER TO TOP	WEIGHT lb/kg				
	SCR/SW	BW	FLG			SCR/SW	BW	FLG		
1/2 15	3/4 20	1 25	7 1/4 184	13 1/4 337	11 1/4 286	2 51	4 1/2 115	24 11	26 12	37 17

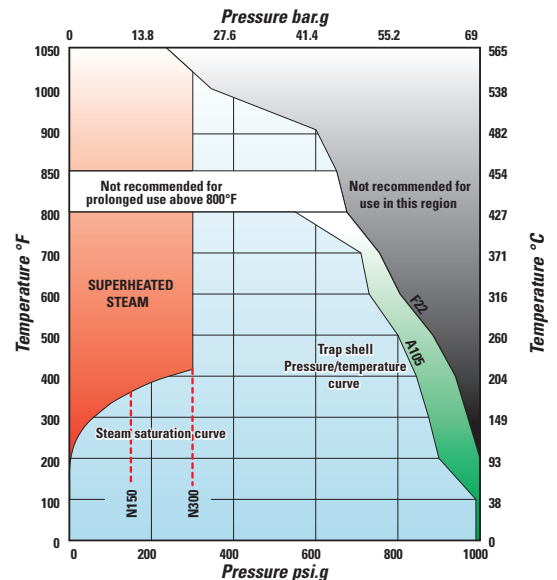
CONDENSATE CAPACITY



Maximum cold water capacity x 3.5

The performance graph indicates the continuous discharge capacities of condensate per hour at various pressure differentials across the trap.

PRESSURE / TEMPERATURE LIMITS



----- Pressure limit for trap type