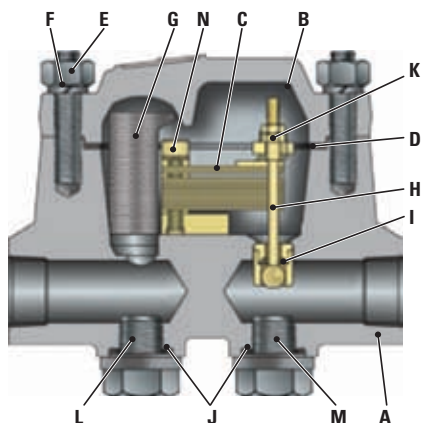


VELAN FORGED HP/HT N675-1500 STEAM TRAPS



Type N675-1500

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, Stainless 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 Test plug	Carbon steel or chrome moly. steel
N Fixing screw and washer	Stainless steel

(1) B7/2H (A105), B16/Gr.4 (F22), SB637 bolting for ANSI/ASME class 1500 shell.

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

ENGINEERING DATA

PRESSURE RANGE ⁽³⁾ psi/bar	PMO psi/bar	MATERIAL	MAX TEMP °F/°C	ORIFICE in/mm	MAX CAPACITY lb/hr/kg/hr
300-675 (21-46.5)	675 (46.5)	A105 ⁽¹⁾	850 ⁽²⁾ 454	5/16 8	2,900 1,315
675-900 (46.5-62)	900 (62)			1/4 6.4	1,850 841
900-1500 (62-103)	1500 (103)				2,100 955

(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 0psi to its maximum operating pressure.

Standard bolting: B7/B16

PMA = Maximum allowable pressure: 1830psi@100°F (126bar.g@38°C)

TMA = Maximum allowable temperature: 800°F (427°C) – A105

1050°F (565°C) – F22

Maximum cold hydrostatic test pressure: 2750psi.g (190bar.g)

TMO = Maximum operating temperature = TMA
PMO = Maximum operating pressure: (See Table)

Special bolting: SB637

Maximum design condition:

PMA = Maximum allowable pressure:

ANSI/ASME 1500

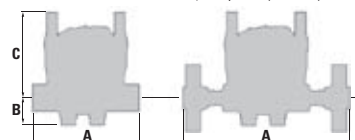
3705psi@100°F (255bar.g@38°C) – A105

3750psi@100°F (258bar.g@38°C) – F22

Maximum cold hydrostatic test pressure: 5575psi.g (384bar.g) – A105

5625psi.g (388bar.g) – F22

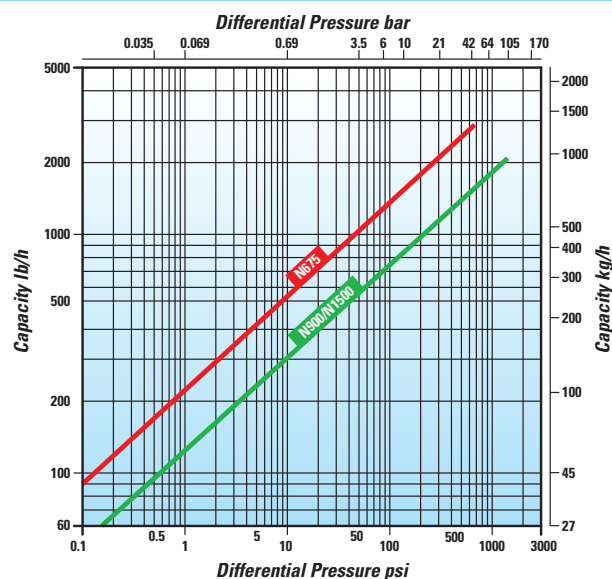
Clearance for Strainer Removal:
N675/1500; 5½ in (140 mm) min.



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	7 1/4 184	13 1/4 337	11 1/4 286	2 51	4 1/2 115	24 11	26 12	37 17

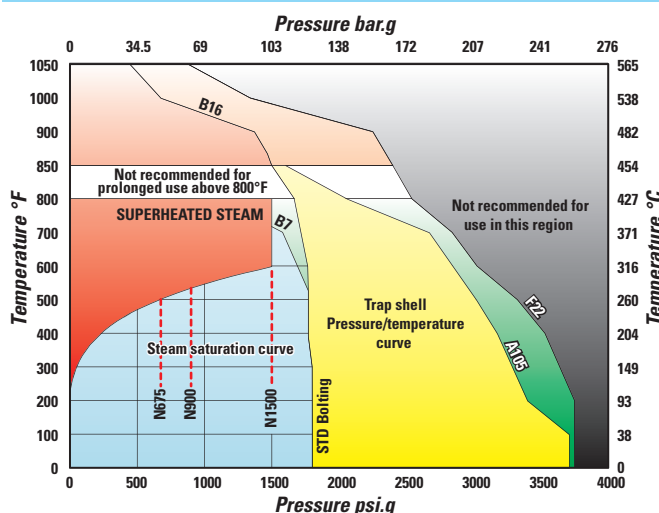
CONDENSATE CAPACITY



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