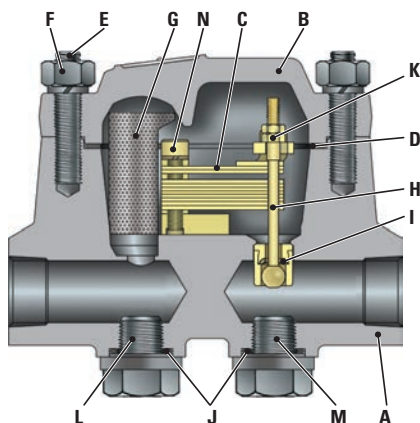


VELAN FORGED HP/HT N675-1500 STEAM TRAPS



Type N675-1500

STANDARD MATERIALS

PART	MATERIALS
A Body	Forged carbon steel A105 (C. Max. 0.25)
B Cover	Forged alloy steel F22
C Bimetal element	Truflex GB-14
D Cover gasket	SS 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 CoCr alloy
J Plug gasket	SS 321 spiral wound with graphite filler
K Adjusting nut and locknut	Stainless steel
L Strainer blow down plug	Same as body material
M Test plug	Same as body material
N Fixing screw and washer	Stainless steel

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

APPLICATIONS

Boiler headers, steam mains, branch lines, soot blower drains and intermediate stage turbine drains.

CONNECTIONS

- Screwed
- Socket-weld
- Butt-weld
- Flanged

ENGINEERING DATA

PRESSURE RANGE ⁽³⁾ psig/barg	PMO psig/barg	MATERIAL	MAX TEMP °F/°C	ORIFICE in/mm	MAX CAPACITY lb/hr/kg/hr
0-675 (0-46.5)	675 (46.5)	A105 ⁽¹⁾	850 ⁽²⁾ 454	5/16 8	2,900 1,315
0-900 (0-62)	900 (62)			1/4 6.4	1,850 841
0-1500 (0-103)	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) Product will operate throughout entire pressure range, however selection closest to the Maximum operating pressure is recommended for maximum efficiency.

Standard bolting: B7/B16

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

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

1050°F (565°C) – F22

Maximum cold hydrostatic test pressure: 2750psig (190bar)

TMO = Maximum operating temperature = TMA
PMO = Maximum operating pressure: (See Engineering data table)

Special bolting: SB637

Maximum design condition:

PMA = Maximum allowable pressure:

3705psig@100°F (255bar@38°C) – A105

3750psig@100°F (258bar@38°C) – F22

Maximum cold hydrostatic test pressure: 5575psig (384bar) – A105

5625psig (388bar) – F22

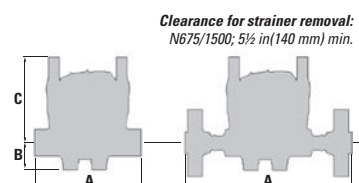
ANSI/ASME 1500

3705psig@100°F (255bar@38°C) – A105

3750psig@100°F (258bar@38°C) – F22

5575psig (384bar) – A105

5625psig (388bar) – F22

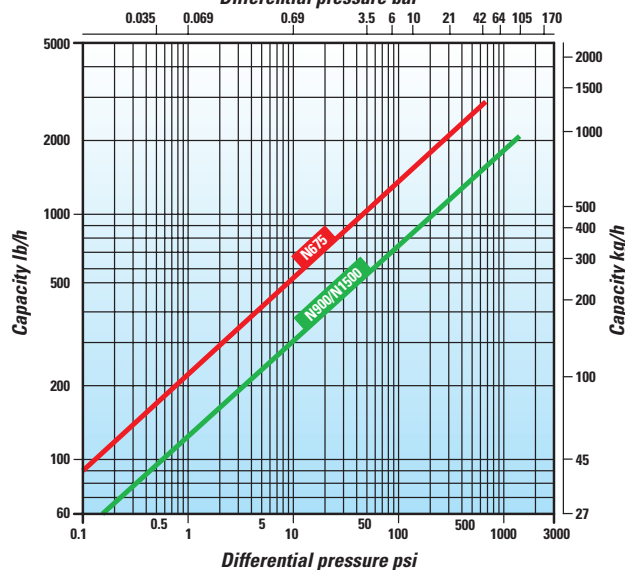


DIMENSIONS AND WEIGHTS

SIZE NPS/DN			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	3/4	1	7 1/4	13 1/4	11 1/4	2	4 1/2	24	26	37
15	20	25	184	337	286	51	115	11	12	17

CONDENSATE CAPACITY

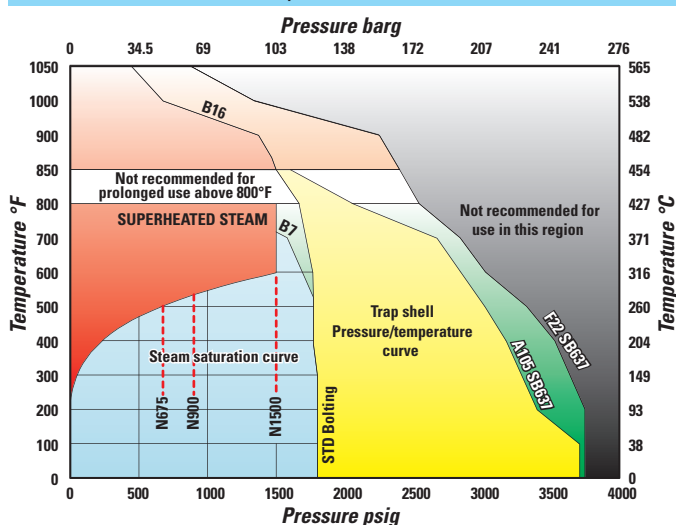
Differential pressure bar



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