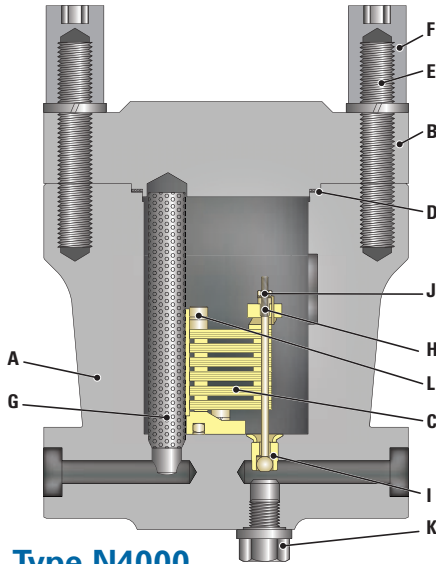


VELAN FORGED HP/HT N4000 STEAM TRAPS



Type N4000

STANDARD MATERIALS

PART	MATERIALS
A	Body Forged alloy steel F91
B	Cover Same as body material
C	Bimetal element Truflex GB-14
D	Cover gasket SS 321 spiral wound with graphite filler
E	Cover stud Nickle chrome alloy
F	Cover nut Nickle chrome alloy
G	Strainer Stainless steel
H	Stem and ball SS, ball valve 58Rc
I	Seat SS hardfaced CoCr alloy
J	Adjusting nut and locknut Stainless steel
K	Test plug Same as body material
L	Fixing screw and washer Stainless steel

APPLICATIONS

Boiler headers, steam mains and branch lines.

CONNECTIONS

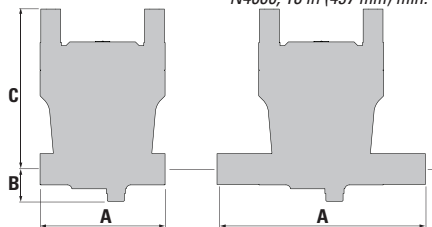
- Socket-weld
- Butt-weld

ENGINEERING DATA

PRESSURE RANGE psig/barg	PMO psig/barg	MATERIAL	MAX TEMP °F/°C	ORIFICE in/mm	MAX CAPACITY lb/hr/kg/hr
500-4000 (34.5-276)	4000 (276)	F91	1100 593	5/16 8	4,900 4,900

Maximum body design condition: ANSI/ASME Class 4500
 PMA = Maximum allowable pressure: 11250psig@100°F (776bar@38°C)
 TMA = Maximum allowable temperature: 1100°F (593°C)
 Maximum cold hydrostatic test pressure: 16875psig (1164bar)
 TMO = Maximum operating temperature = 1050°F (565°C)
 PMO = Maximum operating pressure: (See Engineering data table)

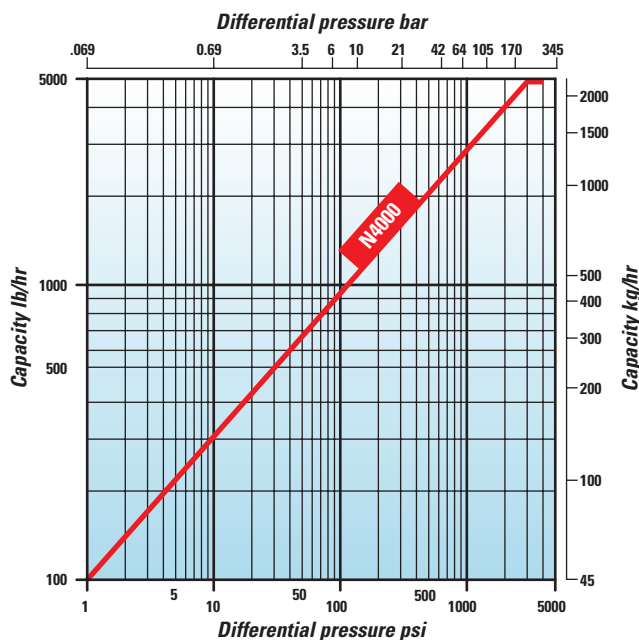
Clearance for strainer removal:
N4000: 18 in (457 mm) min.



DIMENSIONS AND WEIGHTS

SIZE NPS/DN	A FACE TO FACE		B CENTER TO BOTTOM	C CENTER TO TOP	WEIGHT lb/kg	
	SW	BW			SW	BW
1/2 15	10 254	16 406	2 5/8 67	14 356	120 55	125 57

CONDENSATE CAPACITY



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

SHELL PRESSURE/TEMP LIMIT

TEMPERATURE °F (°C)	PRESSURE psig (barg)	TEMPERATURE °F (°C)	PRESSURE psig (barg)
100 (38)	11,250 (775.5)	750 (399)	7,970 (549.5)
200 (93)	11,250 (775.5)	800 (427)	7,610 (524.5)
300 (149)	10,925 (753)	850 (454)	7,305 (503.5)
400 (204)	10,585 (730)	900 (482)	6,740 (465)
500 (260)	9,965 (687)	950 (510)	5,795 (399.5)
600 (315)	9,070 (625)	1000 (538)	5,450 (376)
650 (343)	8,825 (608.5)	1050 (565)	5,400 (372)
700 (371)	8,515 (587)	1100 (593)	4,525 (312)

Maximum cold water capacity x 3.5