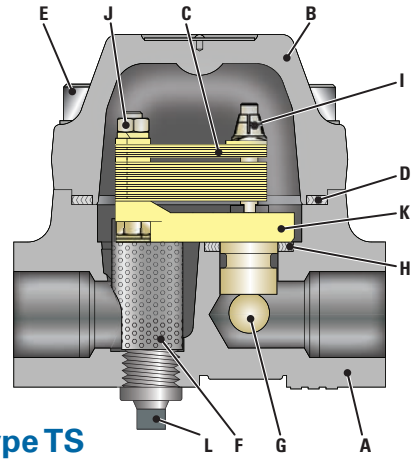
VELAN FORGED TS STEAM TRAPS



Type TS

STANDARD MATERIALS

PART		MATERIALS
A	Body	Forged carbon steel A 105 (C. Max. 0.25)
B	Cover	Same as body material
C	Bimetal element	Truflex GB-14
D	Cover gasket	SS 316 core with graphite seal
E	Cover bolt	Chrome moly. alloy B7
F	Strainer	Stainless steel
G	Stem and ball	SS, ball valve 58 Rc min.
H	Cage unit gasket	SS 316 core with graphite seal
I	Self-lock adjusting nut	Stainless steel
J	Fixing screw	Stainless steel
K	Bimetal holder (1)	Stainless steel
L	Plug 3/8 NPT	Carbon steel

(1) Seat hardfaced CoCr alloy.

APPLICATIONS

Boiler headers, steam mains, branch lines, tracer lines, sterilizers and finned radiation.

CONNECTIONS

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

ENGINEERING DATA

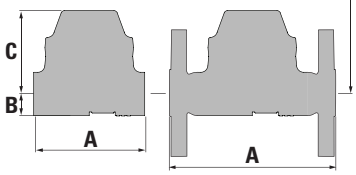
PRESSURE RANGE(2) psig/barg	PMO psig/barg	MATERIAL	MAX TEMP °F/°C	ORIFICE in/mm	MAX CAPACITY lb/hr/kg/hr
0-20 (0-1.4)	20 (1.4)	A105	850(1) 454	3/8 9.5	800 364
0-120 (0-8)	120 (8)			3/8 9.5	1,650 750
0-250 (0-17)	250 (17)			5/16 8	1,500 682
0-300 (0-21)	300 (21)			5/16 8	1,700 773

Maximum body design condition: ANSI/ASME 300 (A105)
PMA = Maximum allowable pressure: 740psig @ 100°F (51barg @ 38°C)
TMA = Maximum allowable temperature: 800°F (425°C)
Maximum cold hydrostatic test pressure: 1125psig (77barg)
PMO = Maximum operating pressure: (see Engineering data table)
TMO = Maximum operating temperature = TMA

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

(2) Product will operate throughout entire pressure range, however selection closest to the Maximum operating pressure is recommended for maximum efficiency.

Clearance for strainer removal:
TS 4 1/8 in (105 mm) min.

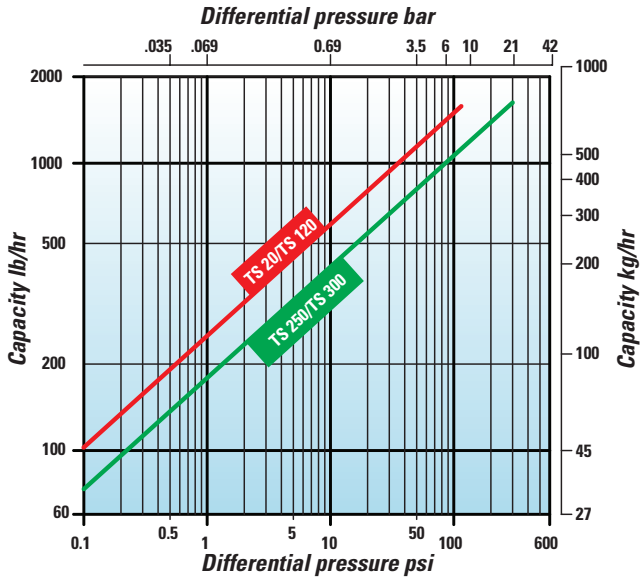


DIMENSIONS AND WEIGHTS

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
3/8 1/2 3/4 10 15 20	4 102	10 254	6 152	1 1/2 38	3 76	6 2.7	8 3.6	10 4.5
1 25	4 102	10 254	6 152	1 3/4 44	3 1/4 83	6.5 3	9 4	13 6

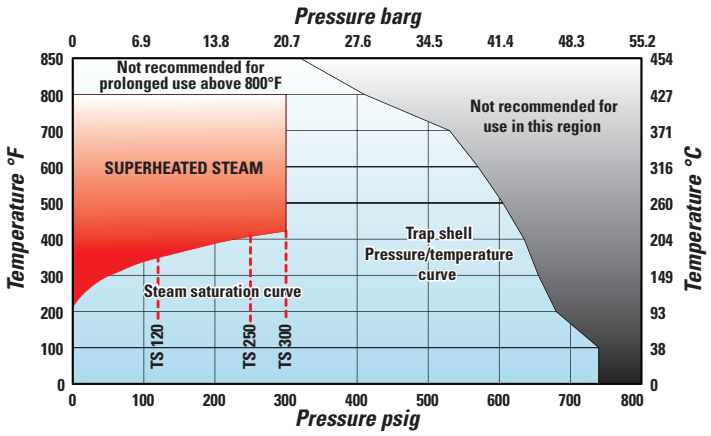
CONDENSATE CAPACITY

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



Maximum cold water capacity x 3.5

PRESSURE / TEMPERATURE LIMITS



---------- *Pressure limit for trap type*