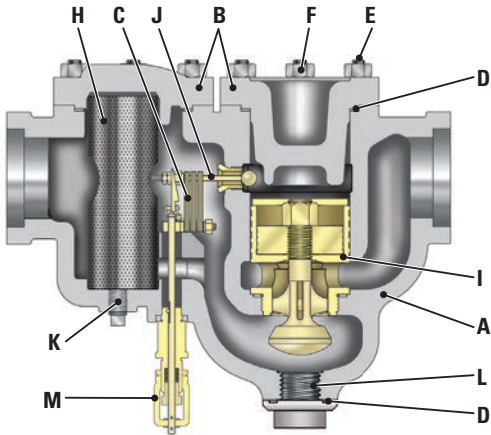


VELAN HIGH CAPACITY PISTON OPERATED STEAM TRAP



STANDARD MATERIALS

PART	MATERIALS
A	Body Cast steel WCB
B	Cover Same as body material
C	Bimetal element Truflex GB-14
D	Gasket SS 321 spiral wound with graphite filler
E	Cover stud Chrome moly. alloy B7
F	Cover nut Carbon steel 2H
H	Strainer Stainless steel
I	Piston cage unit Stainless steel
J	Pilot valve Stainless steel, ball 58Rc min.
K	Blowdown plug Carbon steel
L	Bottom plug Stainless steel
M	Temp controller Stainless steel

APPLICATIONS

Boiler headers, steam mains, branch lines, steam separators, oil storage tank coils, purifiers, de-superheater drains, reboilers, feed water heaters, heat exchangers and high-pressure/temperature applications with high condensate discharge rates.

Type SP6, 7, AND 8 (cast)

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
10-200 (0.69-14)	200 (14)	WCB	850 ⁽¹⁾ 454	2 51	90,000 40,909
10-600 (0.69-42)	600 (42)				130,000 59,090
10-1500 (0.69-103)	1500 (103)				160,000 72,727

SP 6 AND 7

PMA = Maximum allowable pressure: 1250psig@100°F (86bar@38°C)
Maximum cold hydrostatic test pressure: 1875psig (129bar)

SP 8

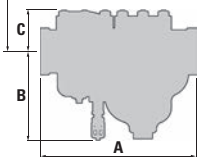
PMA = Maximum allowable pressure: 2000psig@100°F (138bar@38°C)
Maximum cold hydrostatic test pressure: 3000psig (207bar)
TMA = Maximum allowable temperature: 800°F (427°C)
TMO = Maximum operating temperature = TMA
PMO = Maximum operating pressure: (see Engineering data table)

(1) Permissible, but not recommended for prolonged use above 800°F (427°C).

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

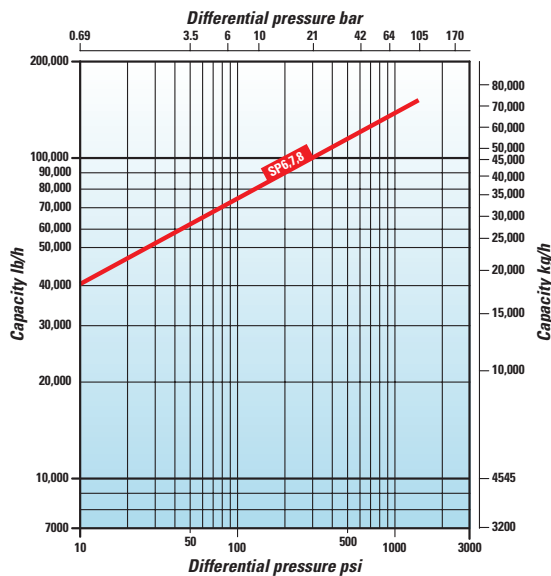
DIMENSIONS AND WEIGHTS

Clearance for Strainer Removal:
SP 12 in (305 mm) min.



TYPE	SIZE NPS/DN	A FACE TO FACE					B CENTER TO BOTTOM	C CENTER TO TOP	WEIGHT lb/kg					
		SCR/ SW	BW	FLANGED					SCR/SW		FLANGED			
				SP6	SP7	SP8			SP6	SP7 & SP8	SP6	SP7 & SP8		
SP 6,7,8	2	15	21	18	19	22	9 1/8 232	4 1/4 108	115	120	118	123	139	170
	50										54	56	63	77
	2 1/2	16	22	457	483	559	9 1/8 232	4 1/4 108	115	120	120	125	151	192
	65										55	57	69	87
3	406	559	457	483	559	9 1/8 232	4 1/4 108	115	120	122	127	155	216	
80										56	58	70	98	

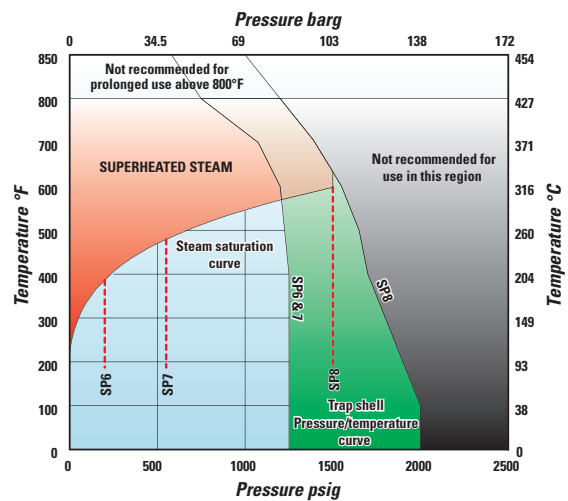
CONDENSATE CAPACITY



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