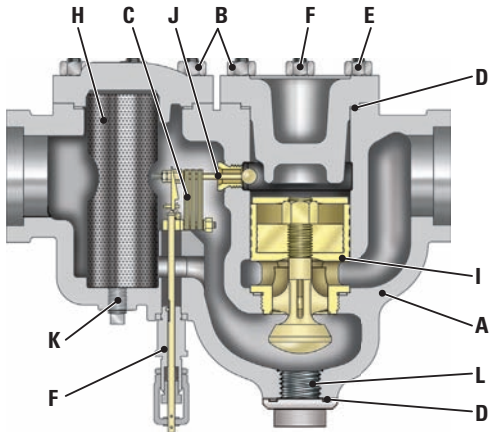


# VELAN HIGH CAPACITY PISTON OPERATED STEAM TRAP



## STANDARD MATERIALS

PART	MATERIALS
A	Body Cast steel WCB
B	Cover Same as body material
C	Bimetal element Truflex GB-14
D	Gasket S/S 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

Reboilers, purifiers, vacuum pans, heat exchangers, evaporators, feed water heaters, digesters, desuperheaters, steam separators, flash tanks, large autoclaves, steam catapult service on U.S. Navy aircraft carriers and other large capacity applications.

## Type SP6, 7, & 8 (cast)

## CONNECTIONS

- Screwed
- Socketweld
- Butt weld
- Flanged

## ENGINEERING DATA

PRESSURE RANGE psi/bar	PMO psi/bar	MATERIAL	MAX TEMP °F/°C	ORIFICE in/mm	MAX CAPACITY lb/hr/kg/hr
10-200 (0.69-14)	200 (14)	WCB	850 <sup>(1)</sup> 454	2 51	90,000 40,909
200-600 (14-42)	600 (42)				130,000 59,090
600-1500 (42-103)	1500 (103)				160,000 72,727

### SP 6 & 7

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

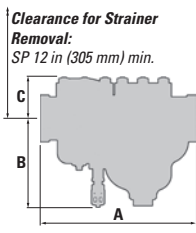
### SP 8

PMA = Maximum allowable pressure: 2000psi@100°F (138bar@38°C)  
Maximum cold hydrostatic test pressure: 3000psi (207bar)  
TMA = Maximum allowable temperature: 800°F (427°C)  
TMO = Maximum operating temperature = TMA  
PMO = Maximum operating pressure: (See Table)

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

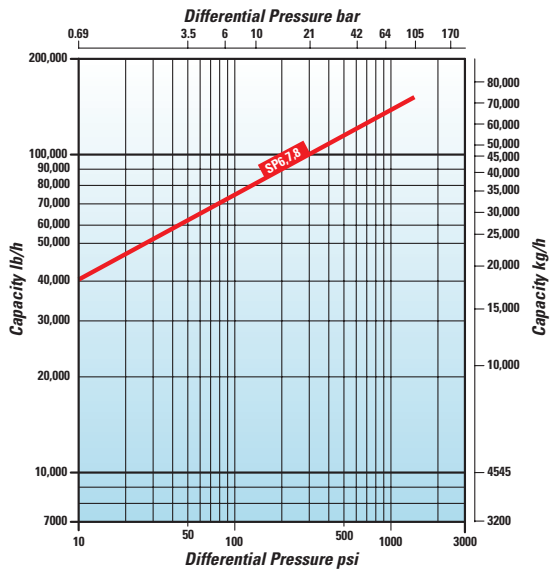
(2) Pressure range indicated in the above table is the preferred operating range, however the trap is functional from 10psi to its maximum operating pressure.

## DIMENSIONS & WEIGHTS



TYPE	SIZE in/mm	A FACE TO FACE					B CENTER TO BOTTOM	C CENTER TO TOP	WEIGHT lb/kg					
		SCR/SW	BW	FLANGED					SCR/SW		BW		FLANGED	
				200	350	1500			200	600 & 1500	200	600 & 1500	200	600 & 1500
SP 6,7,8	2 50	15	21	18	19	22	9 1/8	4 1/4	115	120	118	123	139	170
	2 1/2 65	381	533	457	483	559	232	108	52	55	54	56	63	77
	3	16	22	55	55	59	108	108	52	55	55	57	69	87
	3 80	406	559	559	559	559	108	108	52	55	56	58	70	98

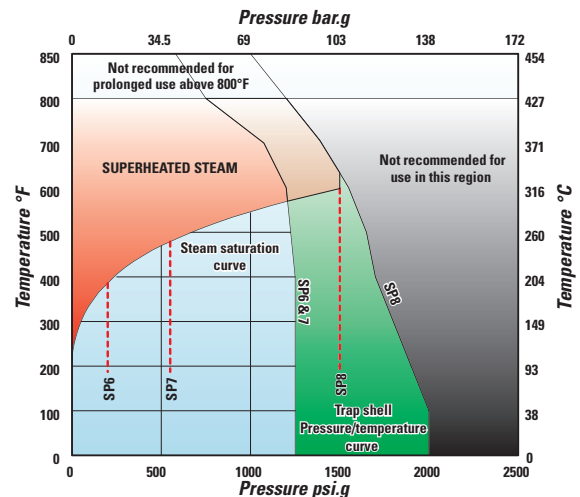
## CONDENSATE CAPACITY



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