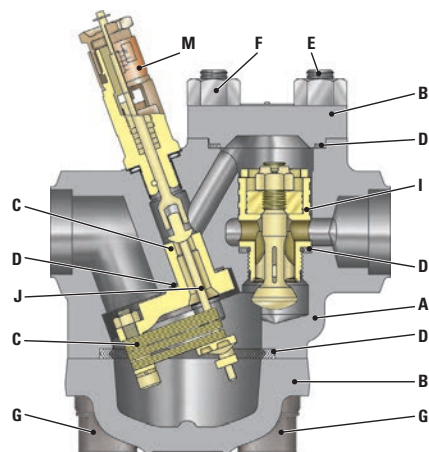


VELAN HIGH CAPACITY PISTON OPERATED STEAM TRAP



STANDARD MATERIALS

PART		MATERIALS
A	Body	Forged carbon steel A105
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
G	Cap screw	Chrome moly alloy
I	Piston cage unit	Stainless steel
J	Pilot valve	Stainless steel, ball 58Rc min.
M	Temperature 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 cold reheat drains.

CONNECTIONS

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

Type SPF0-7 (A105)

ENGINEERING DATA

TYPE	PRESSURE RANGE ⁽²⁾ psig/barg	PMO psig/barg	MATERIAL	MAX TEMP °F/°C	ORIFICE in/mm	MAX CAPACITY lb/hr/kg/hr
SPF0	10-200 0.69-14	200 14	A105	850 ⁽¹⁾ 454	7/8 22	17,000 7,727
SPF1	10-350 0.69-24	350 24				19,000 8,636
SPF2	10-600 0.69-42	600 42				22,000 10,000
SPF3	10-1500 0.69-103	1500 103				27,000 12,273

(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.

TYPE	PRESSURE RANGE ⁽²⁾ psig/barg	PMO psig/barg	MATERIAL	MAX TEMP °F/°C	ORIFICE in/mm	MAX CAPACITY lb/hr/kg/hr
SPF4	10-200 0.69-14	200 14	A105	850 ⁽¹⁾ 454	1 3/8 35	38,000 17,272
SPF5	10-350 0.69-24	350 24				43,000 19,545
SPF6	10-600 0.69-42	600 42				49,000 22,272
SPF7	10-1500 0.69-103	1500 103				63,000 28,636

PMA: Maximum allowable pressure: 3000psig@100°F (207bar@38°C)

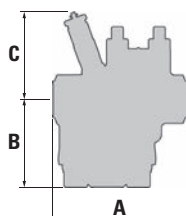
TMA: Maximum allowable temperature: 800°F (427°C)

Maximum cold hydrostatic test pressure: 4500psig (310bar)

TMO = Maximum operating temperature = TMA

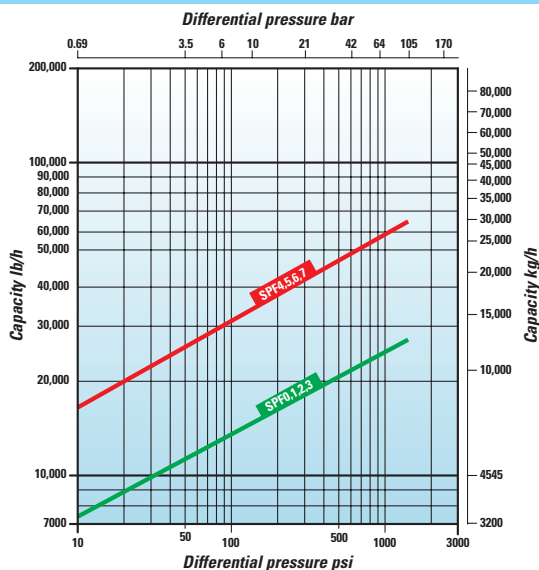
PMO: Maximum operating pressure: (see Engineering data table)

DIMENSIONS AND WEIGHTS



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	BW	FLANGED					
						SPF0/4	SPF1/5	SPF2/6	SPF3/7					SPF0/4	SPF1/5	SPF2/6	SPF3/7		
SPF 0,1,2,3	1 25	1 1/2 40	7 3/4 197	13 3/4 349	10 3/4 273	11 279	11 279	12 3/4 324	4 7/8 124	5 3/16 132	35 16	39 18	48 22	53 24	56 25	64 29			
SPF 4,5,6,7	1 1/2 40	2 50	8 3/4 222	14 3/4 375	12 305	12 305	12 305	14 1/4 362	5 1/8 130	5 1/2 140	50 23	55 25	67 30	69 31	81 37	100 45			

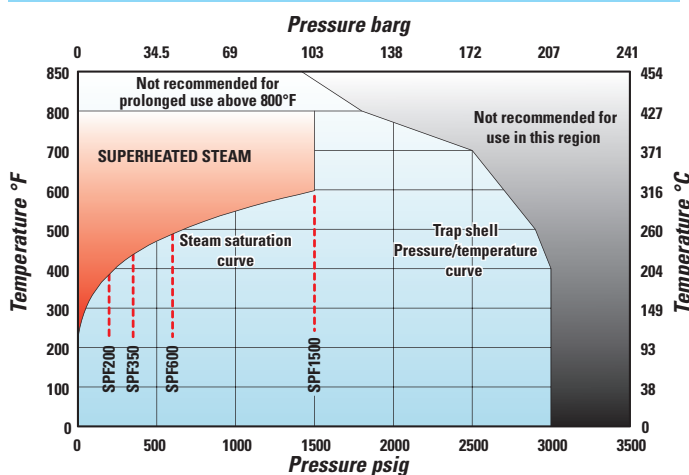
CONDENSATE CAPACITY



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