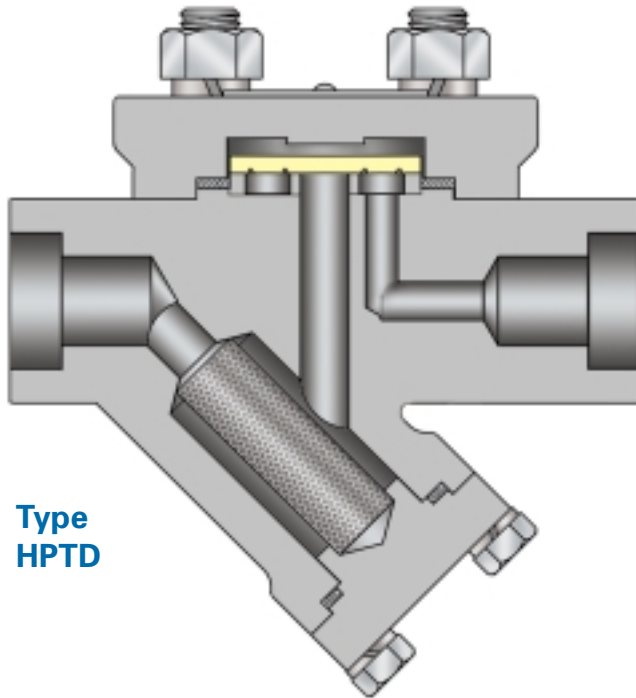
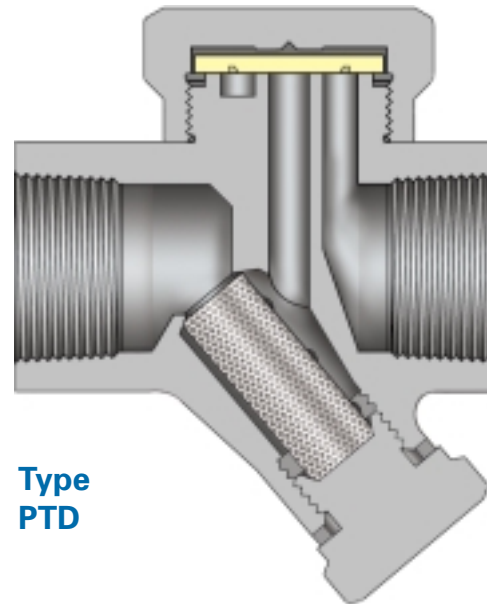


VELAN THERMODYNAMIC STEAM TRAPS

Type HPTD, PTD & VTS with Stainless Steel Hardened Floating Disc



Type
HPTD



Type
PTD

TYPE VTS & HPTD DESIGN FEATURES

- **Stainless steel hardened floating disc**, ground and lapped with seat replaceable in line.
- **Gaskets** are spiral wound, stainless steel with graphite. **Trim** is stainless steel
- **Valve seats Stellite**
Most Velan valve seats are Stellite faced to increase their resistance to the high degree of wear through velocity of flow, dirt and scale.
- **Integral strainer**
Stainless steel screens are integral in all three models to protect the trap operating mechanism from damage by dirt or scale. No extra fittings or installation costs are required. Free strainer area minimum 5 to 1. Perforation is 0.031" (0.8 mm).
- **Silent operation** – no violent line shocks.
- **Positive closing**
Every Velan trap closes tightly on saturated steam temperature. Positive closing for long periods on dry superheated steam lines has enormous advantages in power plant and marine service.
- **All-position installation** simplifies piping layout.

- **Freezeproof installation**
Velan traps do not require a reservoir of priming water in the body to operate when installed vertically with inlet on top, they drain completely when cold, and are therefore freezeproof without insulation.
- **Positive condensate drainage** for process work.
- **Options for HPTD include:** NPT blow down plug or blow-down valve and Piping King Unit.

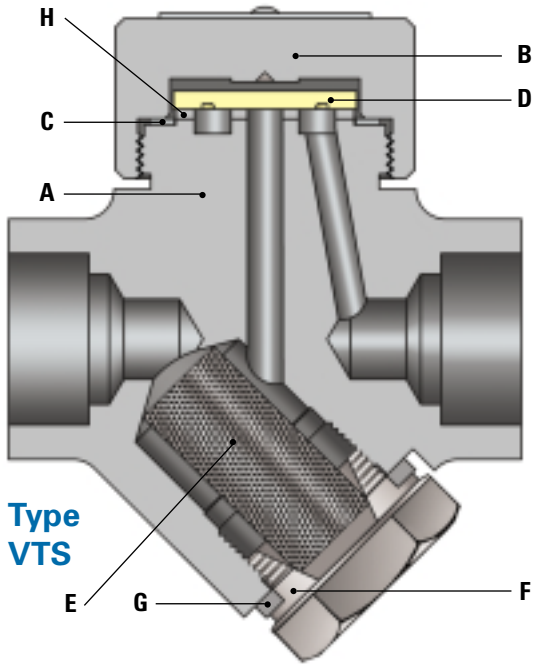
APPLICATIONS

- **HPTD, PTD & VTS**
Multi-platen Presses,
Garment Presses,
Rubber and Plastic moulding equipment,
Sterilizers and Laundry Ironers.

CONNECTIONS:

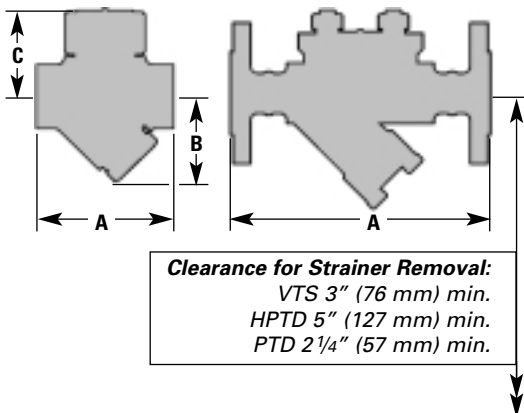
- HPTD & VTS:** ● Screwed ● Socketweld
● Butt weld ● Flanged
- PTD:** ● Screwed

VELAN THERMODYNAMIC STEAM TRAPS



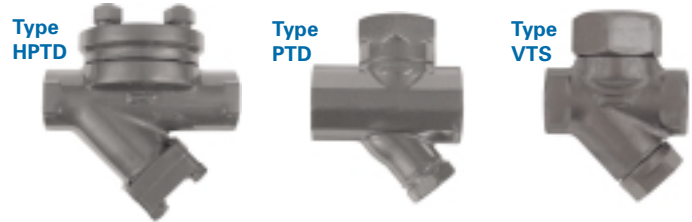
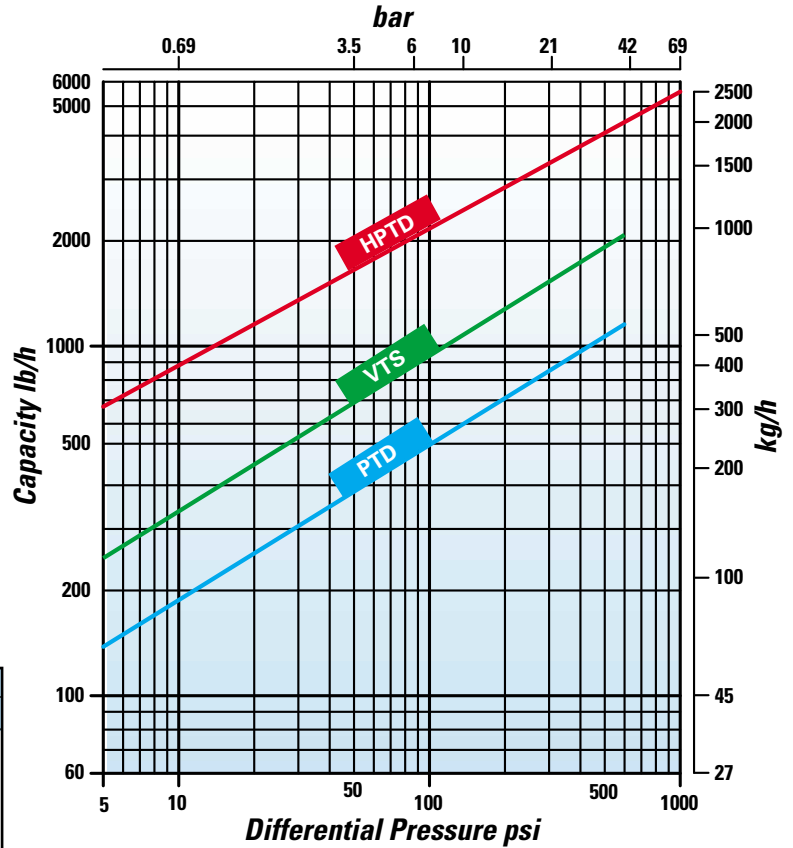
STANDARD MATERIALS

PART		MATERIALS		
		PTD	VTS	HPTD
A	Body	Cast stainless steel 410	Forged alloy steel F11 Forged stainless steel F316 Forged carbon steel A105	Forged carbon steel A105 [C. Max. 0.25]
B	Cover	SS 316	Same as body material	
C	Cover gasket	-	Monel	SS with graphite filler
D	Floating disc	Stainless steel, hardened		
E	Strainer	Stainless steel		
F	Strainer cover	Same as body material		
G	Strainer cover gasket	Stainless steel	Stainless steel spiral wound with non-asbestos filler	
H	Seat	Hardened	Hardfaced with Stellite 6	



CAPACITY

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



ENGINEERING DATA

TYPE	PRESSURE RANGE psi/bar	MAX. TEMP °F/°C				MAX. CAPACITY lb/h kg/h
		A105	F11	F316	410	
PTD	5-600	-	-	-	650 343	1,210 550
VTS	0.34-41	850 ⁽¹⁾ 454	1000 538	1000 538	-	2,060 936
HPTD	5-1000 0.34-69	-	-	-	-	5,500 2,500

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

DIMENSIONS & WEIGHTS

TYPE	SIZE in/mm	A Face to Face			B Center to Bottom	C Center to Top	Weight lb/kg				
		SCR/SW	BW	FLG			SCR/SW	BW	FLG		
		PTD	1/2 15	3/4 20			2 5/8 67	-	-	1 3/4 44	1 9/16 40
VTS	3/8 10	1/2 15	3/4 20	3 3/16 81	9 3/16 233	6 1/4 159	2 1/8 54	2 1	3 1.5	7 3	
HPTD	1/2 15	3/4 20	1 25	6 1/8 155	12 1/8 308	10 1/8 257	4 102	2 7/8 73	18 8	20 9	26 12