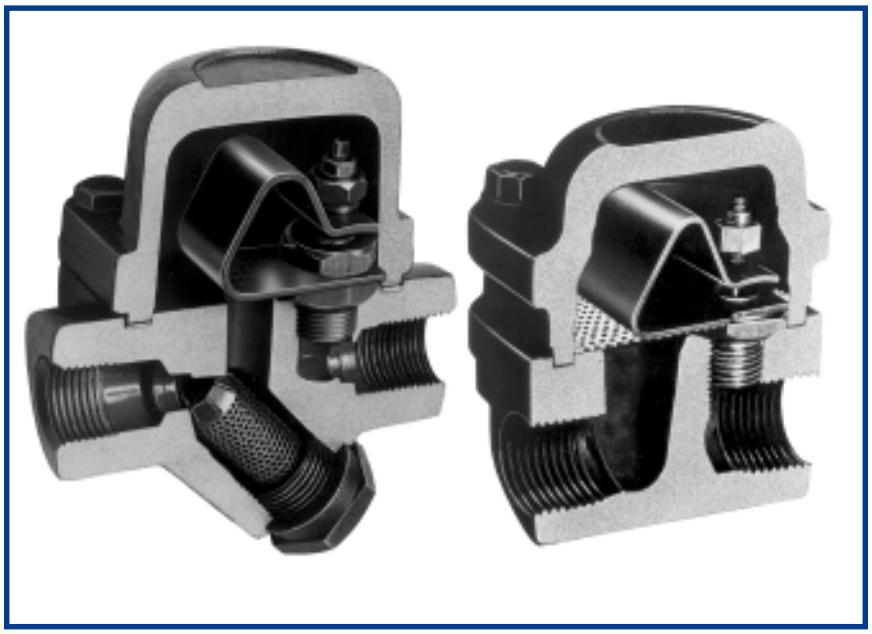
Models M22-TM22

Steam Traps for Subcooled Tracing



Specifically developed to make use of the latent heat of steam and the sensible heat of condensate prior to discharge. For tracing services with differential pressures to 300 psi, these traps are completely maintainable.

- **No loss of live steam —** for greater energy efficiency, extended seat life.
- **Single blade element —** a superior element design combining thermostatic and thermodynamic forces for long-term, trouble-free service. The single blade is not prone to dirt build-up as found with many other bimetal designs.
- **Stainless Steel internals —** highly resistant to fatigue and corrosion and completely renewable.
- **Built-in check valve —** prevents backflow during shutdown.
- **Modulating discharge —** automatically adjusts to operating pressure and load, overcoming problems associated with cyclic discharge.
- **Continuous air and CO_2 venting —** maximizes heat transfer while minimizing corrosion.

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Bestobell Models M22-TM22 Steam Traps

Application

Models M22 and TM22 steam traps are factory-set to purposefully retain condensate in the tracer lines, thereby allowing additional BTU's from the condensate to be utilized.

Specifications

Line Sizes: 3/8", 1/2", 3/4" (10, 15, 20 mm)

Maximum Differential Pressure: 300 psi (20,7 bar)

Maximum Body Pressure: 750 psig (52 bar)

Maximum Body Temperature: 650°F (344°C)

End Connections:

- TM22: threaded (NPT), BSPT, BSPP, socket weld
- M22: threaded (NPT), BSPT, BSPP, SW, raised face flanges (ANSI 150, 300, 600; DIN flanges)

Materials:

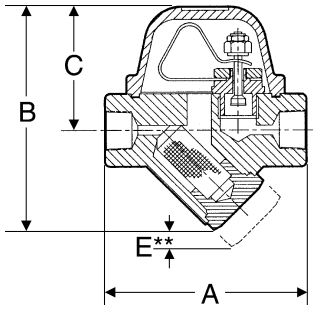
- Body & Cover: forged Carbon Steel
- Valve Seat, Cone, Stem: Stainless Steel
- Bimetal: Stainless Steel
- Strainer: Stainless Steel
- Nuts & Bolts: Steel
- Gasket: flexible Graphite

Mounting: from horizontal to vertical *(see Installation & Maintenance Instructions)*. Self-draining and freeze-resistant when mounted in vertical position.

Options (M22): double threaded strainer cap (DTC) for blowdown valve attachment; selection of optional blow-down valves.

Dimensions

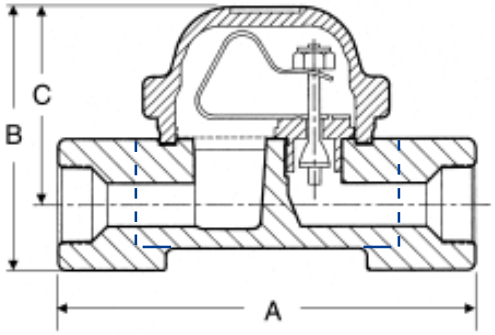
- M22



	A	B	C	D	E	WT.
Inches	4	5	3-1/4	3-1/8	2-1/4	5.5 lbs
mm	102	127	83	79	57	2.5 kg

Notes: dimension D is overall width. Dimensions shown are for traps with NPT or SW ends; for dimensions on traps with flanged ends, please consult factory. ** E shows withdrawal distance for strainer.

- TM22



Size		A	B	C	D	WT.
3/8", 1/2"	Inches	2-7/16	3	2-1/4	2-7/16	2.2#
10/15 mm	mm	62	76	57	62	1 kg
3/4"	Inches	4-9/16	3-1/8	2-1/4	2-7/16	3.0#
20 mm	mm	116	79	57	62	1,4 kg

Note: dimension D is overall width; 1/2" & 3/8" shape is outlined with blue dashed line.

Capacity Charts: Condensate Capacity at Differential Pressure

Note: Actual flow rate from tracer line determines the amount of subcooling of condensate							
Size	Differential Pressure, psi (bar)	50 (3,45)	100 (6,89)	150 (10,3)	200 (13,8)	250 (17,2)	300 (20,7)
3/8", 1/2", 3/4"	Hot @ 50°F subcool, lbs/hr	50	50	50	50	50	50
	Hot@ 90°F subcool, lbs/hr	250	250	250	250	250	250
	Hot @ 10°C subcool, Kg/hr	22,7	22,7	22,7	22,7	22,7	22,7
	Hot @ 32°C subcool, Kg/hr	113	113	113	113	113	113

Note: flow rates based on discharge to atmospheric pressure, valid for back pressures up to 20% of inlet pressure. Higher back pressures require reset of control element to obtain these capacities.Consult factory for details.