

# Delta Element Steam Traps

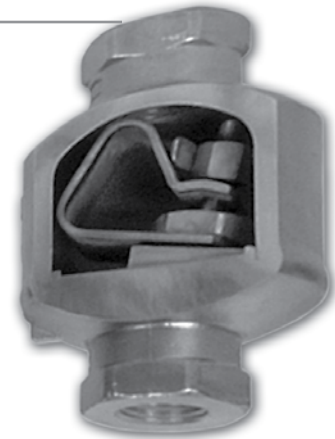
Model  
TS22

CRN: Canadian Registration Number Available

## STEAM TRAP FOR SUBCOOLING APPLICATIONS

For services with differential pressures up to 300 psig (20,7 bar), this model is designed to efficiently make use of the sensible heat by retaining condensate within the tracer line.

- **Easy maintenance** – traps are in-line repairable when isolated from live steam system and can be up and running again in minutes
- **No live steam loss** – for greater energy efficiency and extended seat life, up to 320 psig (22,1 bar)
- **Single blade element** – offers long-term, trouble-free service because it's not prone to dirt build-up as encountered with many other bimetal designs
- **Stainless Steel internals** – leads to longer service life since materials are highly resistant to fatigue and corrosion
- **Modulating discharge** – automatically adjusts to operating pressure and load, overcoming problems associated with cyclic discharge
- **Continuous air and CO2 venting** – maximizes heat transfer while minimizing corrosion



## ORDERING SCHEMATIC

MODEL							
T	S	0	2	2	1	1	2

6	SIZE
1	3/8"
2	1/2"
3	3/4"

7	CONNECTIONS
1	NPT
2	FSW
8	BSPT
9	BSPP

8	SPECIALITIES
2	Sealed



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**STEAM TRAP FOR SUBCOOLING APPLICATIONS**
**SPECIFICATIONS**

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

Maximum Operating Pressure: 500 PSIG (34,5 bar)

Maximum Body Temperature: 750°F (399°C)

**MATERIALS**

Shell: Investment cast Stainless Steel CF3

Valve Seat: 303 SST

Cone: 17-4 SST

Bi-Metal: Stainless Steel NiCr

End Connections: NPT, BSPT, BSPP, SW

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

Line Sizes: 3/8", 1/2", 3/4"

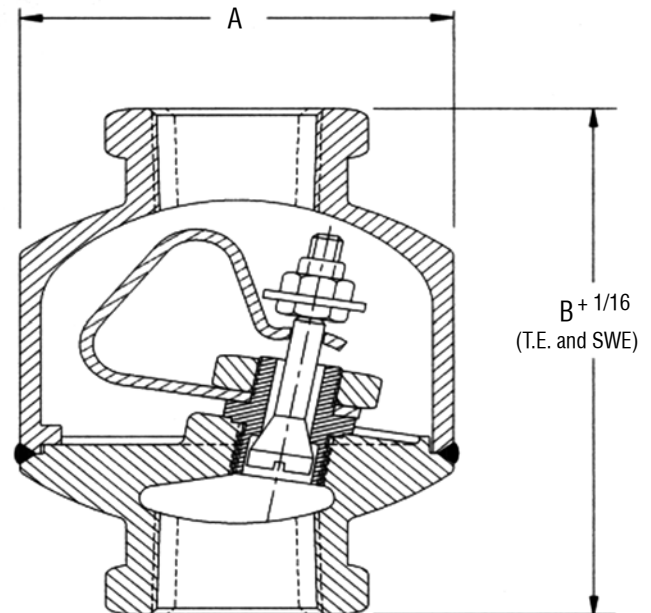
**BESTOBELL'S DELTA ELEMENT . . . NO LIVE STEAM LOSS**

A sophisticated, yet simple, design that will give you years of trouble-free service with absolutely no live steam loss. Bestobell's Delta Element is a triangular shaped bi-metal strip of austenitic and ferritic stainless steels. The materials are rolled together, shaped in the Delta pattern and then heat treated to eliminate stresses. The single blade design provides faster response than found with typical stacked arrangements due to the large surface to mass ratio. The stem is situated at a point that allows the expansion of the bimetal to exert a linear pull on the stem to prevent uneven wear on the sealing surfaces.

**CAPACITY CHARTS: CONDENSATE CAPACITY AT DIFFERENTIAL PRESSURE**

Model TS22					
Size	Differential Pressure, psi (bar)	50 (4,3)	100 (6,9)	200 (13,8)	300 (20,7)
3/8"	Hot @ 50°F subcooling, lbs/hr	50	50	50	50
	Hot @ 90°F subcooling, lbs/hr	250	250	250	250
1/2"	Hot @ 10°C subcooling, kgs/hr	22,7	22,7	22,7	22,7
	Hot @ 32°C subcooling, kgs/hr	113	113	113	113

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

**MODEL TS22 SERIES DIMENSIONS**


Model TS22			
3/8", 1/2", 3/4"	A	B	Wt
inches	2.625	3.75	1.8 lbs
mm	67	95	0,82 kgs

Notes: dimension D is overall width; \*\*dimensions shown are for threaded or socket weld ends, contact factory for other dimensions