

# Disc Traps

## Model: DTCS

### THERMODYNAMIC DISC TRAP WITH TRI-CLAMP CONNECTIONS

Bestobell's DTCS Series is a 316L Stainless Steel thermodynamic disc trap, that is compact with a lightweight design and tri-clamp® end connections.

This clean steam trap, constructed of 316L stainless steel which offers better corrosion resistance for non-sanitary applications than other thermodynamic traps. It meets the requirements of quick response applications in the steam system. Condensate entry below the disc, concentric to the disc/seat ensures a clean parallel lift of the disc with reference to the seat, eliminating localized wear and tear.

The DTCS is ideal for fluctuating loads and pressures. It is virtually maintenance free with a one year replacement warranty.



### ORDERING SCHEMATIC

| MODEL |   |   |   | 6 | 7 | 8 |
|-------|---|---|---|---|---|---|
| D     | T | C | S |   |   |   |

| 6 | SIZE |
|---|------|
| 2 | 1/2" |
| 3 | 3/4" |

| 7 | CONNECTIONS |
|---|-------------|
| 1 | Tri-Clamp®  |

| 8 | SPECIALS              |
|---|-----------------------|
| 0 | None                  |
| 4 | 20 Ra Exterior Finish |



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## THERMODYNAMIC DISC TRAP WITH TRI-CLAMP CONNECTIONS

### SPECIFICATIONS

Maximum Pressure Allowable: 227 psig (15,6 bar)

Maximum Operating Pressure: 227 psi (15,6 bar)

Maximum Temperature Allowable: 842°F (450°C)

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

End Connections: Tri-Clamp®

Options: 20 Ra external finish

Weight: 1.7 lbs (0.77 kgs)

Maximum operating back pressure at the outlet should not exceed 80% of the inlet.

Minimum differential pressure for satisfactory operation 3.5 psi (0,24 bar)

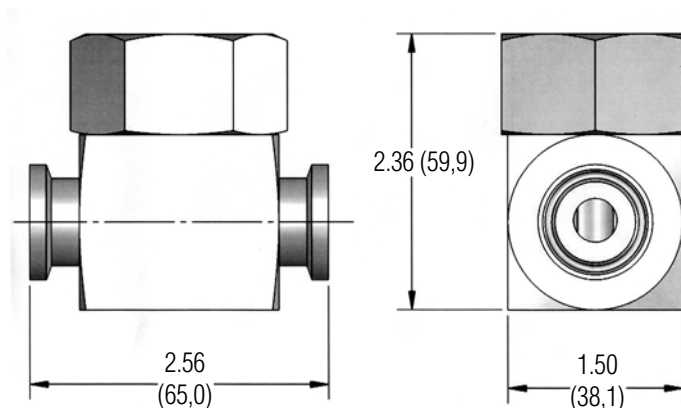
### MATERIALS

Body: AISI 316L

Disc Cap: AISI 316L

Disc: AISI 316L

### DIMENSIONS



### INSTALLATION

The DTCS should be installed in the horizontal plane with the cap on top. Full port isolation valves should be installed upstream and downstream of the trap for safe maintenance. Always open isolation valves slowly until normal operating conditions are achieved to avoid system shocks.

### PREVENTATIVE MAINTENANCE

The DTCS can be maintained without disturbing the piping connections. Ensure that the trap is isolated - upstream and downstream - before attempting to dismantle it. Allow the trap to cool before dismantling. Periodic cleaning of the disc and seat will facilitate trouble-free performance. Do not use abrasives / corrosive media for cleaning. Only the disc and seat are subject to wear. A worn disc can be replaced and slight seat wear can be corrected by resurfacing on a lap plate.

For new installations, the system should be properly flushed prior to fitting the trap.

### PRESSURE RATINGS

| ΔP       | bar   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   |
|----------|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Capacity | psi   | 14  | 29  | 43  | 58  | 72  | 87  | 101 | 116 | 130  | 145  | 159  | 174  | 188  | 203  | 217  | 232  |
|          | kg/hr | 125 | 200 | 260 | 300 | 340 | 380 | 410 | 440 | 460  | 480  | 500  | 510  | 515  | 520  | 520  | 520  |
|          | pph   | 275 | 440 | 572 | 660 | 748 | 836 | 902 | 968 | 1012 | 1056 | 1100 | 1122 | 1133 | 1144 | 1144 | 1144 |

### RECOMMENDED INSTALLATION

From equipment  
being drained

