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## Balanced Pressure Steam Trap MST 21 IND

### Description:

The MST21 IND is a maintainable balanced pressure steam trap, manufactured in stainless steel, it is corrosion resistant, easily maintainable.

### Size & Pipe Connection:

06 NB, 15NB and 20NB  
 Screwed BSPT /NPT

### Limiting Conditions:

Maximum Operating Conditions  
 PMO - Max. Operating Pressure 21 bar  
 TMO - Max. Operating Temperature 285°C.  
 Cold hydraulic test pressure 42 bar

### Dimensions: (approximate) in millimetres

| Size  | A    | B    | C  | D  |
|-------|------|------|----|----|
| 06 NB | 61.0 | 11.5 | 14 | 46 |
| 15 NB | 61.0 | 11.5 | 14 | 46 |
| 20 NB | 61.0 | 11.5 | 14 | 46 |

### Materials:

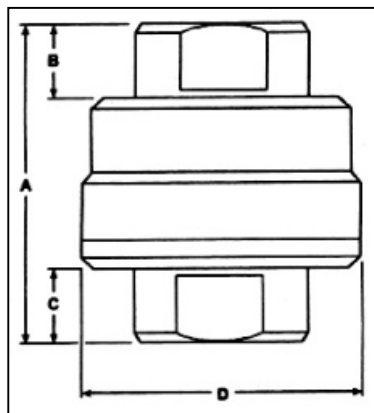
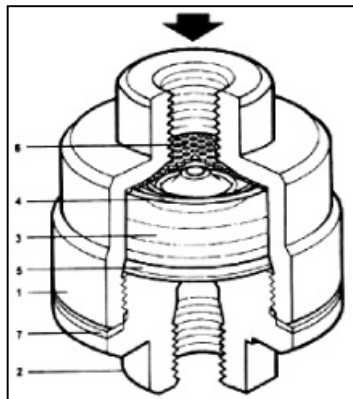
| No | Part                                 | Material                         | Standard      |
|----|--------------------------------------|----------------------------------|---------------|
| 1  | Body                                 | Austenitic Stainless steel (316) | ASTMA 276 316 |
| 2  | Cap                                  | Stainless steel                  | ASTM A276 420 |
| 3  | Capsule                              | Stainless steel                  |               |
| 4  | Spring                               | Stainless steel                  | ASTM A276 302 |
| 5  | Spacer plate                         | Stainless steel                  | ASTM A240 304 |
| 6  | Strainer screen (0.8mm perforations) | Stainless steel                  | ASTM A240 304 |
| 7  | Gasket                               | Stainless steel                  | ASTM A240 304 |

### Capsule Filling For MST - 21 IND

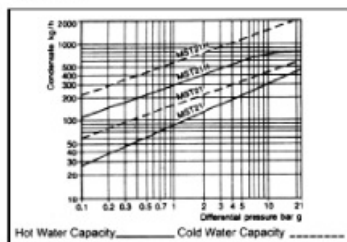
As standard the trap is supplied with filling F, which will operate approximately 22°C below steam saturation temperature.

As an optional alternative the trap can be supplied with filling G, which will operate approximately 4°C below steam saturation temperature.

Note: If the alternative capsule is required this must be clearly stated on the order e.g. capsule to have G fill or F fill.



### Capacities



## Safety Information:

### Pressure

Before attempting any maintenance of the steam trap, consider what is or may have been in the pipeline. Ensure that any pressure is isolated and safely vented to atmospheric pressure before attempting to maintain the steam trap. Do not assume that the system is depressurised even when a pressure gauge indicates zero.

### Temperature

Allow time for temperature to normalise after isolation to avoid the danger of burns and consider

**Caution:** The body/cover gasket contains a thin stainless steel support ring, which may cause physical injury if it is not handled and disposed of carefully.

### Installation:

The trap is designed for installation with the capsule in a vertical line with the inlet at the top and outlet at the bottom. This will ensure that it is self draining. If fitted in a horizontal line, the trap should be preceded by a short drop leg. Suitable isolation valves

### Replacing the internal set

Remove the cap using a spanner and lift out the screen, spring, capsule and spacer plate. Remove new internals in the correct order. Fit new gasket, refit the cap, using a little anti-seize compound on the threads and tighten to the recommended torque.

### Available Spares:

The spare parts available are shown in heavy outline. Parts drawn in broken line are not supplied as spares.

#### Available Spares

|                              |        |     |
|------------------------------|--------|-----|
| Capsule & Seat Assembly set  | F Fill | 3,5 |
| (State capsule filling)      | G Fill |     |
| Strainer screen & Gasket Kit |        | 6,7 |
| Spring                       |        | 4   |

| Recommended tightening torques |      |          |         |
|--------------------------------|------|----------|---------|
| Item                           | Size | or<br>mm | Nm      |
|                                | 06   | 22       | 100-110 |
| 1&2                            | 15   | 32       | 100-110 |
|                                | 20   | 36       | 100-110 |

