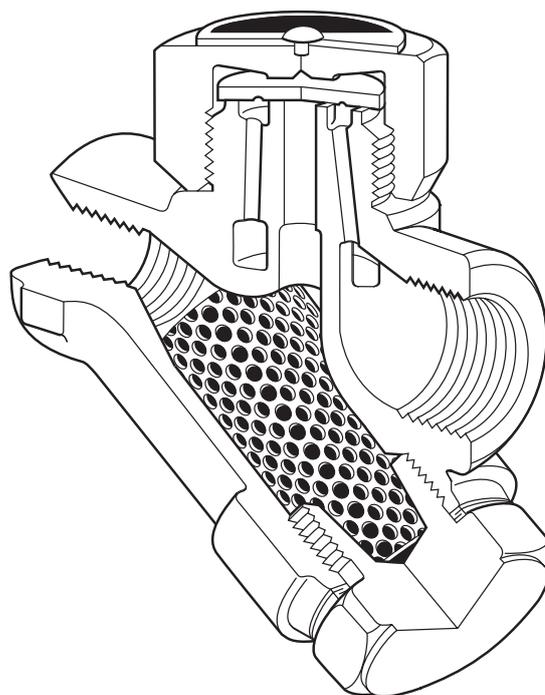




Airodyn Compressed Air Drain Trap



Description

The **Airodyn** is a thermodynamic type compressed air drain trap. The external body surfaces are electroless nickel plated (ENP) which is oxidation resistant.

Operating media

The Airodyn is designed for use on air or gases within PED group 2.

Note: The Airodyn is not suitable for use on PED group 1 liquids or gases.

Optionally

Airodyn S The Airodyn S has been designed for ultra clean applications. This trap has a fine lap disc (item 3).

Airodyn HD The Airodyn HD has been designed for particularly oil contaminated air systems.

Standards

This product fully complies with the requirements of the EU Pressure Equipment Directive/UK Pressure Equipment (Safety) Regulations.

Certification

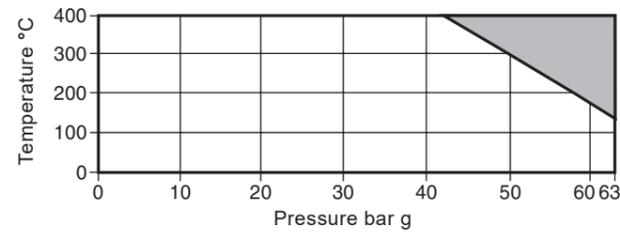
This product is available with certification to EN 10204 3.1.

Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

| | | | |
|---------|-------------------------|------------|------------------|
| Airodyn | 1/2" screwed BSP or NPT | Airodyn HD | 1/2" screwed BSP |
| | 3/4" screwed BSP or NPT | | |

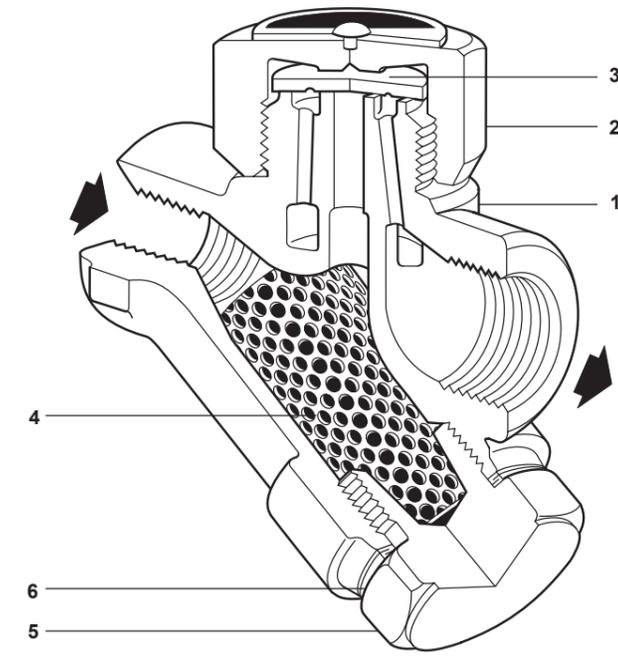
Pressure/temperature limits



The product **must not** be used in this region.

| | |
|--|---|
| Body design conditions | PN63 |
| PMA Maximum allowable pressure | 63 bar g @ 120°C |
| TMA Maximum allowable temperature | 400°C @ 42 bar g |
| Minimum allowable temperature | 0°C |
| PMO Maximum operating pressure for saturated steam service | 63 bar g @ 120°C |
| TMO Maximum operating temperature | 400°C @ 42 bar g |
| Minimum operating temperature | 0°C |
| PMOB | Maximum backpressure should not exceed 80% of the inlet pressure under any conditions of operation otherwise the trap may not shut-off. |
| Minimum operating differential pressure for satisfactory operation | 0.25 bar |
| Designed for a maximum cold hydraulic test pressure of: | 95 bar g |

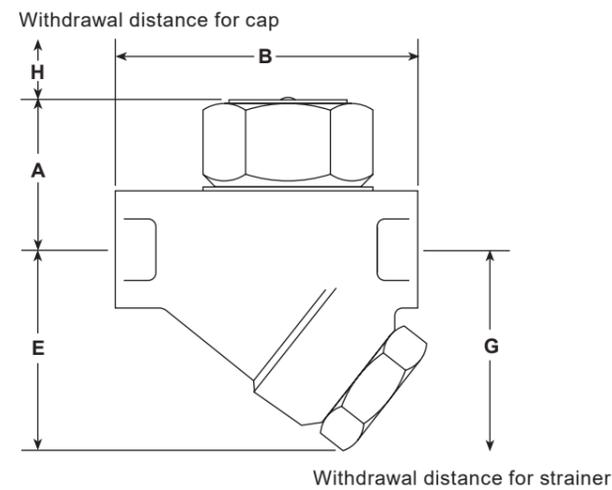
Materials



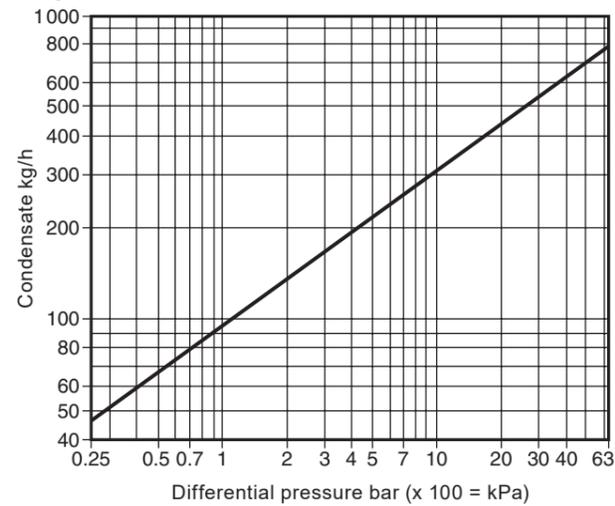
| No. | Part | Material | |
|-----|---------------------|-----------------|---------------------|
| 1 | Body | Stainless steel | ASTM A743 Gr. CA40F |
| 2 | Cap | Stainless steel | AISI 416 |
| 3 | Disc | Stainless steel | BS 1449 420 S45 |
| 4 | Strainer screen | Stainless steel | BS 1449 304 S16 |
| 5 | Strainer cap | Stainless steel | AISI 416 |
| 6 | Strainer cap gasket | Stainless steel | BS 1449 304 S16 |

Dimensions/weights (approximate) in mm and kg

| Size | A | B | E | G | H | Weight |
|------|----|----|----|-----|----|--------|
| 1/2" | 41 | 78 | 55 | 85 | 20 | 0.77 |
| 3/4" | 44 | 85 | 60 | 100 | 20 | 0.95 |



Capacities



K_v values

| Size | 1/2" | 3/4" | For conversion: C _v (UK) = K _v x 0.963 C _v (US) = K _v x 1.156 |
|----------------|------|------|---|
| K _v | 3.09 | 3.09 | |

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-S48-06) supplied with the product.

Installation note:

Preferably fitted in a horizontal pipe but can be fitted in vertically downwards pipe.

Operation

One side of the disc (3) is plain with a single scribe towards the outer edge, whereas the other side of the disc has a machined circular groove. The Airodyn is supplied with the circular grooved side of the disc towards the seating face and is suitable for clean operating conditions with the exception of the 'HD' version which has been designed for particularly contaminated air system having the scribed disc facing the seat. If the operation conditions are dirty, probably with heavy oil contamination, unscrew the cap, using preferably a ring spanner and turn over the disc so that the plain side with a bleed scribe is towards the seating face. Replace cap - no gasket is required but a suitable high temperature anti-sieze grease should be applied to the threads.

Tighten the cap to the recommended torque. Do not use a wrench of the Stillson type which may distort the cap. In extremely dirty conditions it may be necessary to deepen the bleed scribe or to make additional scribes up to a maximum of 3 thus. The scribe should be over the area covered by and extending beyond the outer seat face.



Disposal

The product is recyclable. No ecological hazard is anticipated with disposal of this product providing due care is taken.

How to order

Example: 1 off Spirax Sarco 1/2" screwed BSP Airodyn compressed air drain trap.

Spare parts

The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

Available spares

| | |
|-----------------------------------|------|
| Disc (packet of 3) | 3 |
| Strainer screen and gasket | 4, 6 |
| Strainer cap gasket (packet of 3) | 6 |

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of trap.

Example: 1 - Strainer screen for a Spirax Sarco 1/2" Airodyn compressed air drain trap.

Recommended tightening torques

| Item | Part | or mm | N m |
|------|--------------|------------|----------|
| 2 | Cap | 36 A/G | 150 |
| 5 | Strainer cap | 32 A/F M28 | 170 -190 |

