



TI-P610-03
 ST Issue 5

BRair Compressed Air Drain Trap

Description

The BRair is a thermodynamic type compressed air drain trap, specifically for use on railway rolling stock (British Rail Cat. no. 61/41955). The external body surfaces have electroless nickel preparation (ENP) which is oxidation resistant.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC.

Certification

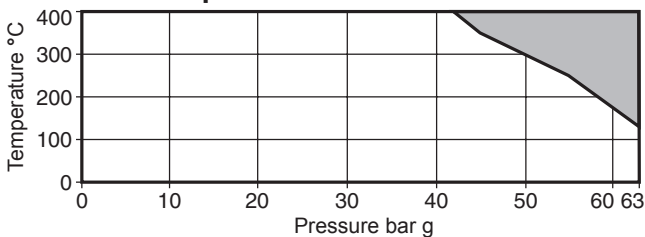
This product is available with a manufacturer's Typical Test Report for the body and cap as standard and EN 10204 3.1 if specified at the time of order placement.

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

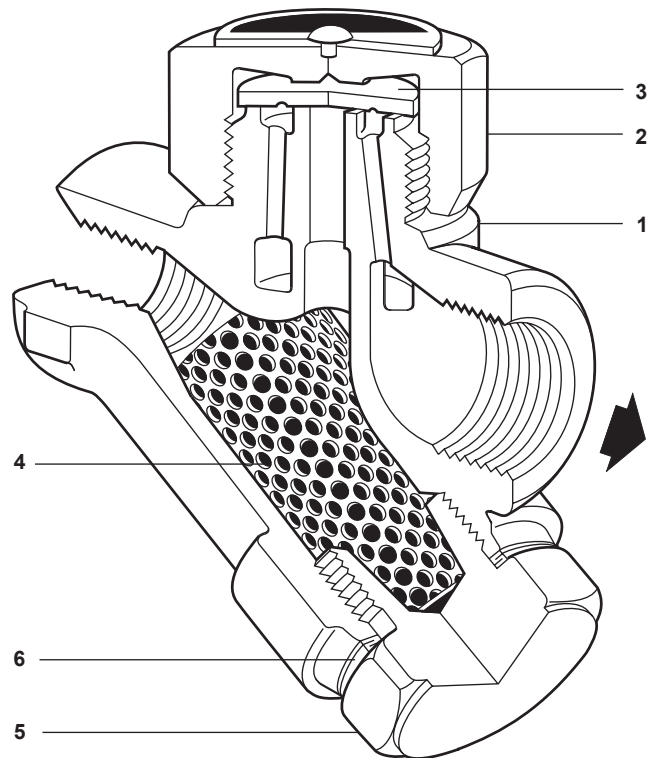
Sizes and pipe connections

½" screwed NPT, BSP and ISO 228-1.

Pressure/temperature limits



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



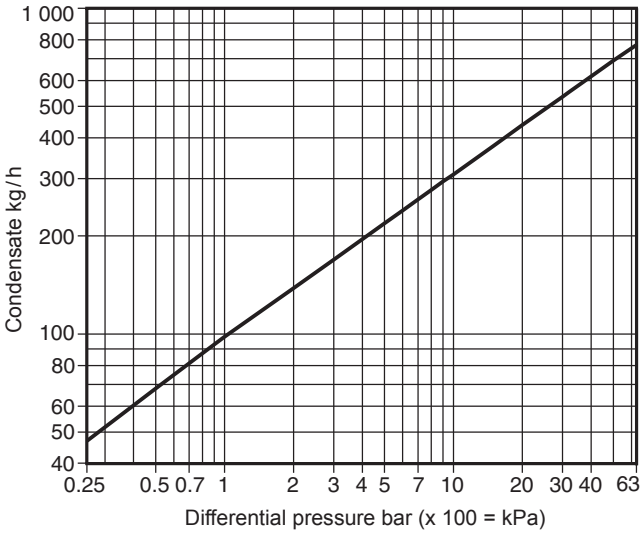
Body design conditions	PN63
PMA Maximum allowable pressure	63 bar g @ 120°C
TMA Maximum allowable temperature	400°C @ 42 bar g
Minimum allowable temperature	0°C
PMO Maximum operating pressure	63 bar g
TMO Maximum operating temperature	400°C @ 42 bar g
Minimum operating temperature	0°C
PMOB	Maximum backpressure should not exceed 80% of the inlet pressure under any conditions of operation otherwise the trap may not shut-off.
ΔPMN	Minimum operating differential pressure for satisfactory operation 0.25 bar

Designed for a maximum cold hydraulic test pressure of 95 bar g

Material

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

Capacities

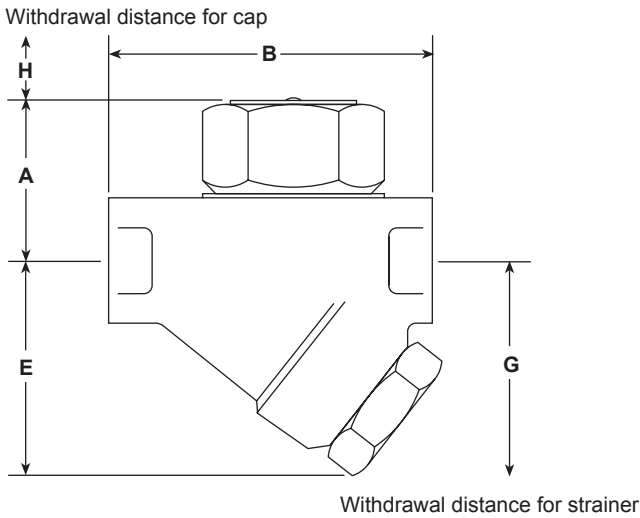


Kv values

Size	1/2"
Kv	3.09
For conversion:	$C_v (UK) = K_v \times 0.963$ $C_v (US) = K_v \times 1.156$

Dimensions/weight (approximate) in mm and kg

Size	A	B	E	G	H	Weight
1/2"	41	78	55	85	41	0.77



Spare parts

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

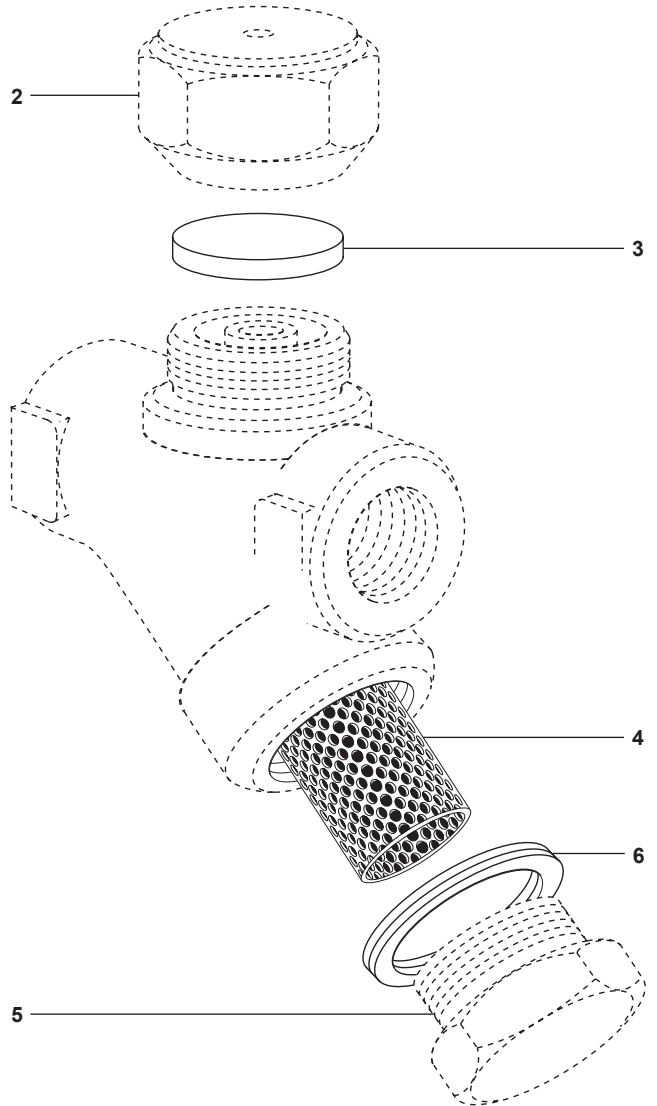
Available spares

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" Brair compressed air drain trap.



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 plane with the cover at the top but can be fitted in vertically downwards pipe.



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" BRair compressed air drain trap having screwed BSP connections.

Recommended tightening torques

Item	 or 	mm	N m	
2		36	150	
5		32	M28	170 - 190