



BRoil Compressed Air Drain Trap

Description

The BRoil is a maintainable thermodynamic type compressed air drain trap, specifically designed to remove small quantities of oil contaminated condensate, for use on railway rolling stock.

Standards

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

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

Certification

This product is available with certification to EN 10204 3.1.

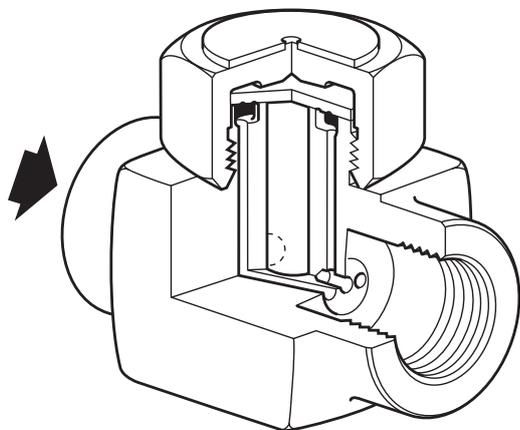
Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

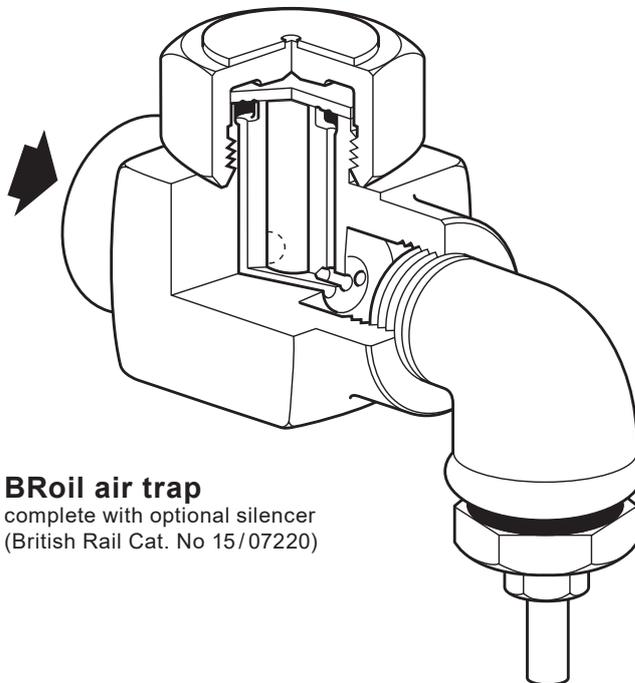
½" screwed BSP or NPT.

Optional extras

The silencer, complete with elbow and reducer is available as an optional extra.

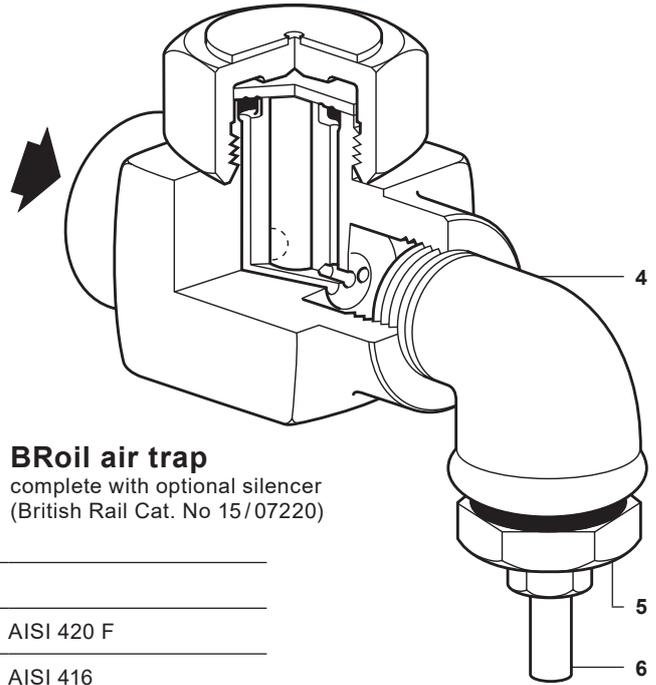
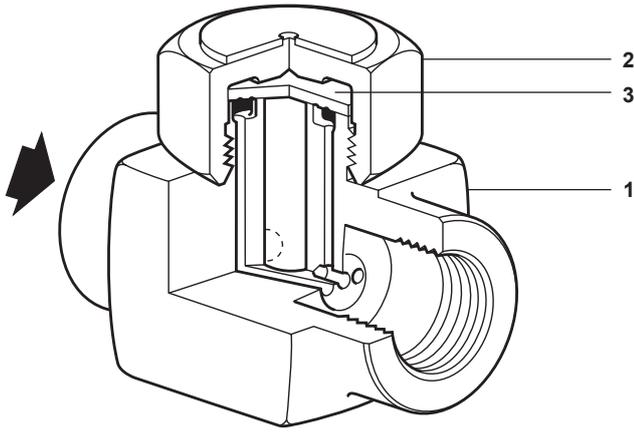


BRoil air trap



BRoil air trap
complete with optional silencer
(British Rail Cat. No 15/07220)

Materials



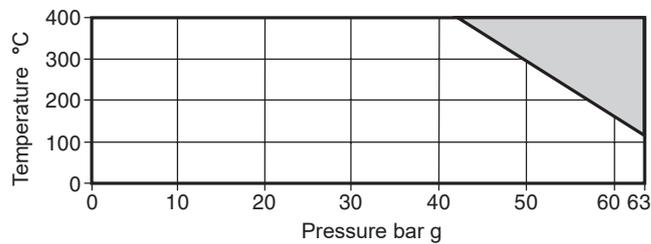
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No.	Part	Material	
1	Body	Stainless steel	AISI 420 F
2	Cap	Stainless steel	AISI 416
3	Disc	Stainless steel	BS 1449 420 S45
4	Elbow	Malleable iron	Parts 4, 5 and 6 are optional extras
5	Reducer and gasket	Brass	
6	Silencer	Brass	

Pressure/temperature limits



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

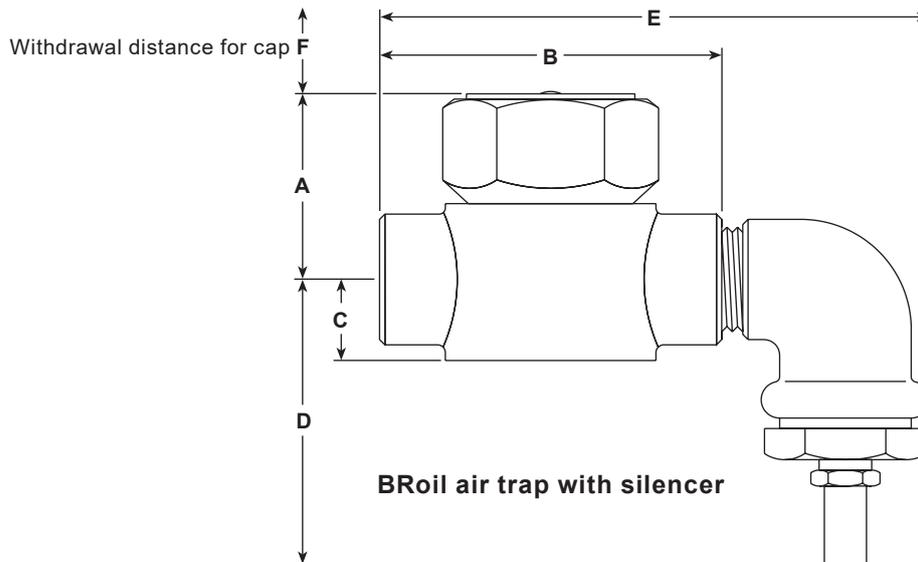
Body design conditions	PN63
PMA Maximum allowable pressure	63 bar g
TMA Maximum allowable temperature	400 °C
Minimum allowable temperature	0 °C
PMO Maximum operating pressure	63 bar g
TMO Maximum operating temperature	400 °C
Minimum operating temperature	0 °C
PMOB Maximum backpressure should not exceed 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

K_v values

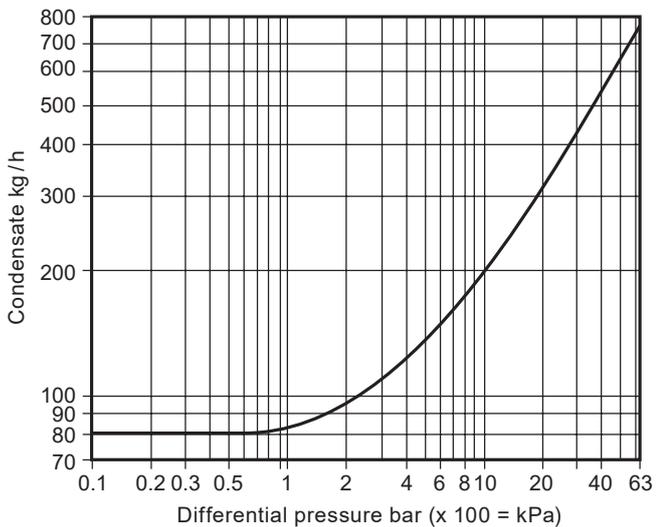
Size	1/2"	For conversion:
		$C_v \text{ (UK)} = K_v \times 0.963$
K _v	0.25	$C_v \text{ (US)} = K_v \times 1.156$

Dimensions/weights (approximate) in mm and kg

Size	A	B	C	D	E	F	Weight	
							(without silencer)	(silencer included)
1/2"	38	65	15	56	109	40	0.47	0.63



Capacities



Safety information, installation and maintenance

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

Installation note

The trap is designed to be installed horizontally. Check the flow direction arrow for the correct orientation.

Disposal

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

How to order

Example: 1 off Spirax Sarco 1/2" BRoil compressed air drain trap screwed BSP complete with optional elbow and silencer.

Spare parts

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

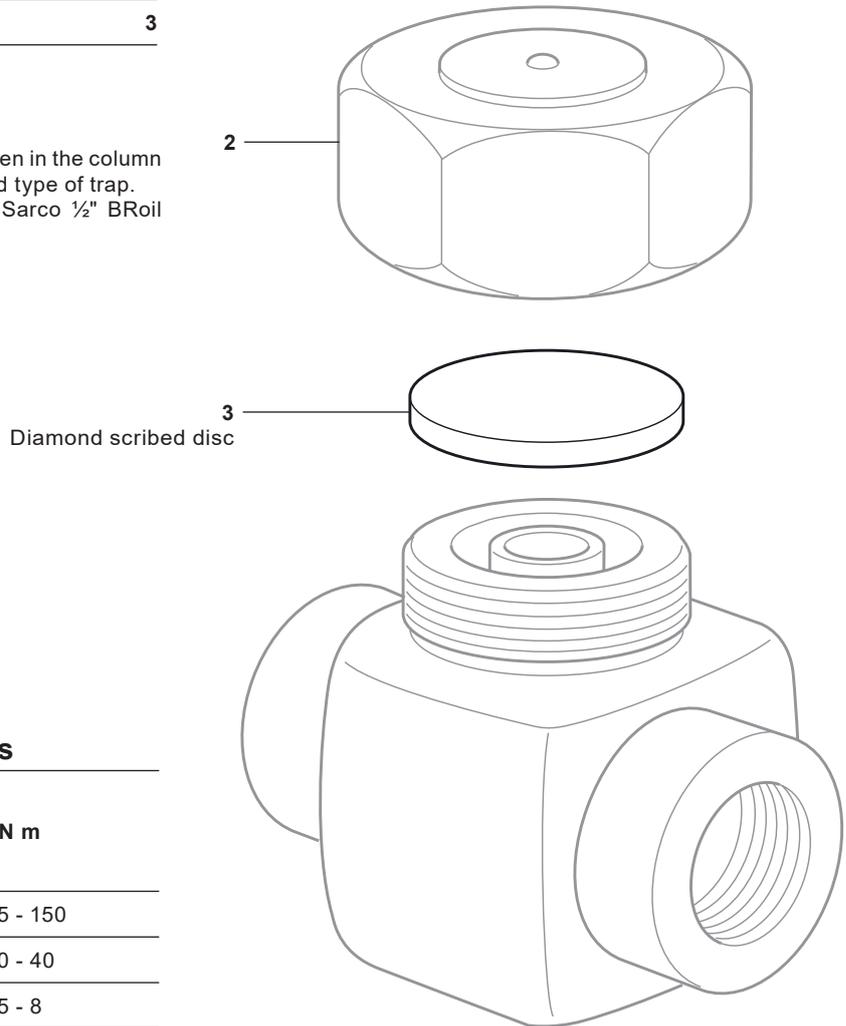
Available spares

Disc (packet of 3)	3
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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 - Packet of 3 discs for a Spirax Sarco 1/2" BRoil compressed air drain trap screwed BSP.



Recommended tightening torques

Item		N m
2	36 A/F mm	135 - 150
5	24 A/F mm	30 - 40
6	11 A/F mm	5 - 8