



Cert. No. LRQ 0963008

ISO 9001

spirax/sarco

IX1

Spirax-Monnier International Compressed Air Filter

TI-P057-01

CH Issue 4

Description

The Spirax-Monnier IX1 international compressed air filter contains an activated carbon filter for the removal of hydrocarbon vapour and odour often found in compressed air.

Applications

Breathing air supply to masks, helmets and suits, air bearings, fluidic systems, pneumatic gauging, food and pharmaceutical industry, and instrumentation products.

Principal features:

- Element life exceeds 59 000 m³ at 21°C and 7 bar g.
- Blue dye indicator to warn of oil carryover.
- High quality black epoxy finish on head (internal and external).
- Complies with BS 4275 for removal of odours and vapours.
- All air passes through entire depth of activated carbon.
- Polycarbonate bowl to BS 6005.
- No service tools required.

Optional extras

- Bowl guard.
- Metal bowl.
- Metal bowl with sight level.
- Type 21 mounting bracket.

Sizes and pipe connections

1/2" screwed BSP (BS 21 -Rp) supplied with 1/4" and 3/8" BSP reducing bushes (1 x pair per size).

Operating limits

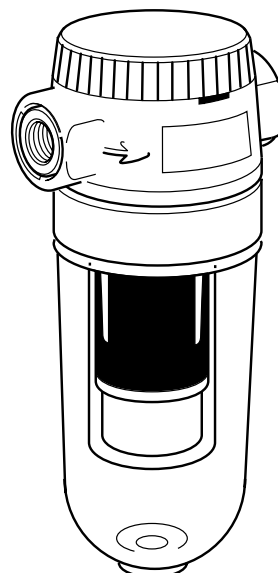
Maximum recommended air flow at 7 bar g:	1/4" and 3/8"	6 dm ³ /s
	1/2"	12 dm ³ /s
Maximum pressure/temperature	Polycarbonate bowl	10 barg @ 50°C
	Metal bowl	17 barg @ 70°C

Materials

Part	Material
* Bowl	Polycarbonate or aluminium
Head	Zinc alloy - Epoxy finish
Element	Activated carbon
'O' ring	Nitrile rubber

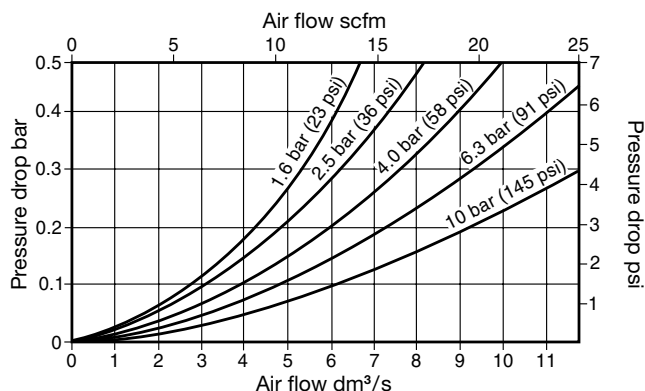
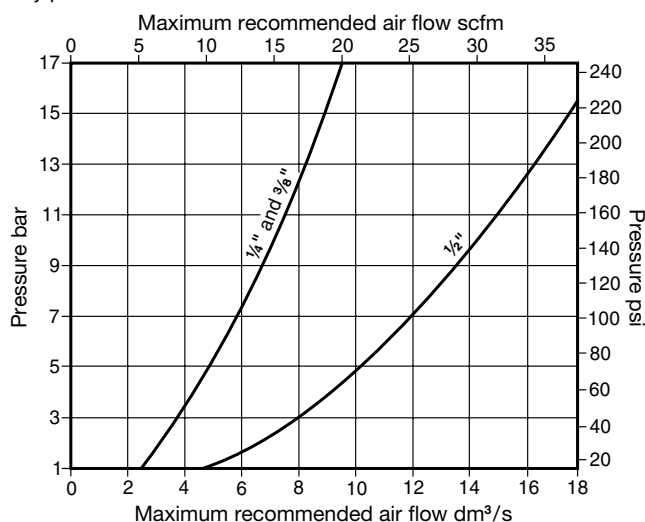
* Selection of a suitable bowl

Polycarbonate bowls are attacked by phosphate ester fluids, solvents, paint thinners and carbon tetrachloride. Certain compressor lubricating oils also contain additives harmful to polycarbonate and, where there is any doubt we recommend, in the interests of safety, that a metal bowl or a guard should be fitted.



Performance curves

Do not exceed the flowrates shown on the performance curves at any pressure.



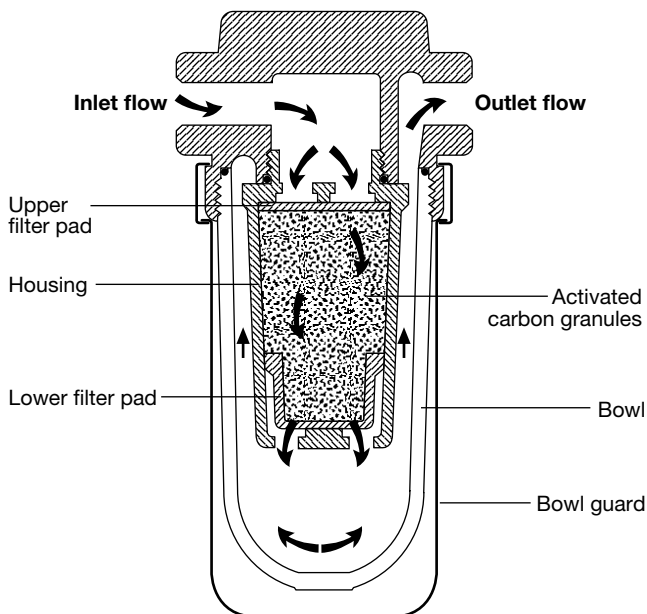
Local regulations may restrict the use of this product to below the conditions quoted.

In the interests of development and improvement of the product, we reserve the right to change the specification without notice.

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How does the IX1 work?

The element of the IX1 filter consists of a tapered cylindrical housing containing activated carbon granules. They are retained by upper and lower filter pads made of borosilicate. As the compressed air flows through the granules, hydrocarbon vapours and odour are absorbed. The filter pads will ensure that there is no risk of carbon particles being released into the airstream. The element contains capsules which release a dye in the presence of liquid oil. This change will show as a blue stain on the lower filter pad. At this stage the IX1 filter element must be replaced.



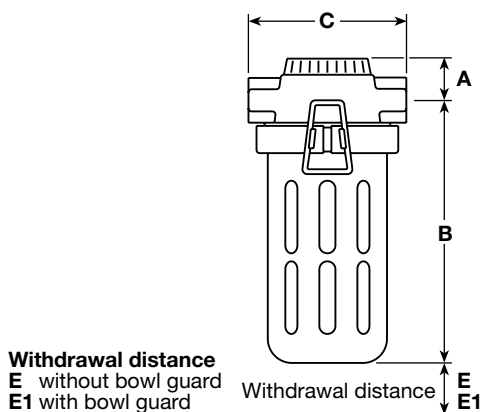
Dimensions/weights (approximate) in mm and kg

Polycarbonate bowl

A	B	C	E	E1	Weight
25	136	76	49	73	0.6

Metal bowl

A	B	C	E	E1	Weight
25	128	76	38	-	0.7



Withdrawal distance

E without bowl guard
E1 with bowl guard

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P057-04) supplied with the product.

Installation note:

Fit in a horizontal pipework with the air flow in the direction of the arrow and the bowl vertically downwards, as close as possible to the equipment it is protecting.

How to order

Please state the quantity and size of the Spirax-Monnier filter type IX1. Specify accessories separately.

Note: The filter will be supplied with a polycarbonate bowl as standard. A metal bowl must be specified, if required, when placing an order.

Example: 1 off Spirax-Monnier ½" IX1 international compressed air filter.

Spare parts

The spare parts available are detailed below. No other parts are supplied as spares.

Available spares

Bowl assembly	Polycarbonate bowl	1, 2
	Metal bowl (with or without sight level)	1, 2
Element set		3, 4
Bowl guard assembly		5, 6, 7

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 unit.

Example: 1 - Polycarbonate bowl assembly for a Spirax-Monnier ½" IX1 international compressed air filter.

