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TI-P504-21
 CH Issue 2

IX1M

Monnier

International Compressed Air Filter

Description

The Monnier IX1M 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 59000 m³ at 21°C and 7 bar g.
- Blue dye indicator to warn of oil carryover.
- High quality black anodised 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.
- No service tools required.

Optional extras:

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

Sizes and pipe connections

¼", ⅜" and ½" screwed BSP (BS 21 -Rp).

Operating limits

Maximum recommended air flow at 7 bar g:	¼" and ⅜"	6 dm ³ /s
	½"	12 dm ³ /s
Maximum pressure/temperature	Polycarbonate bowl	10 bar g @ 50°C
	Metal bowl	17 bar g @ 70°C

Materials

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

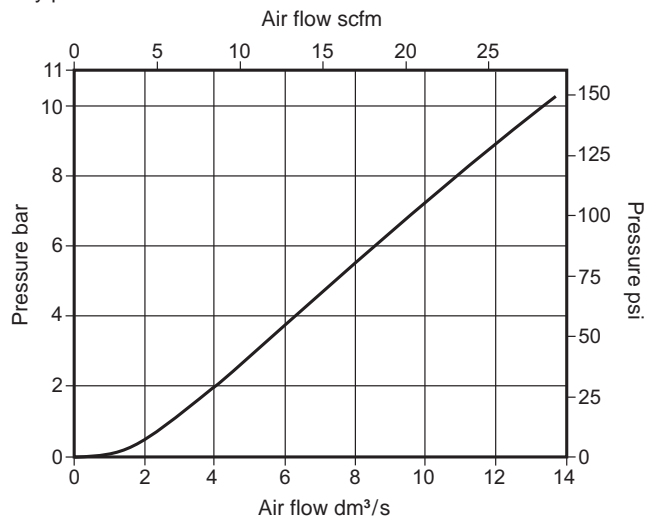
* Selection of a suitable bowl

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.



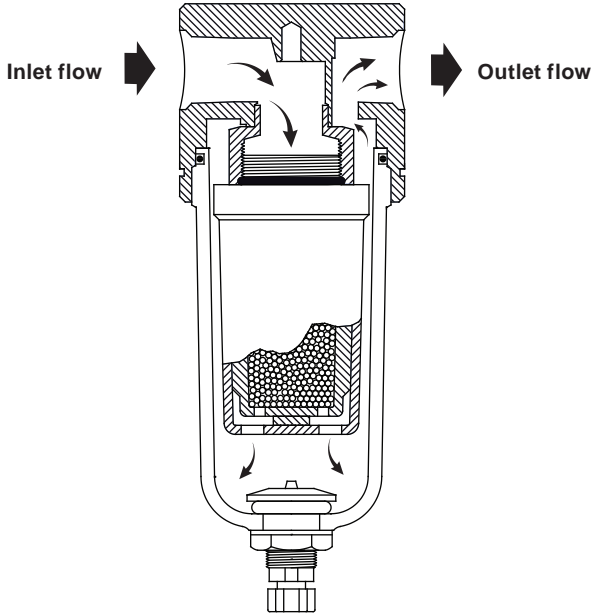
Capacities

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



Principle of operation

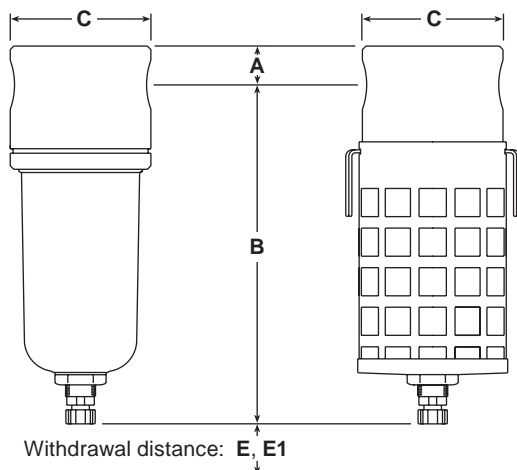
Monnier air line filters are built to ensure solid and liquid contaminants are removed from compressed air. All Monnier filters are engineered with the exclusive Whirl-Away design which creates high centrifugal force with low pressure drop. The whirling action forces all liquids and solids against the bowl wall causing them to run down below the quiet-zone baffle where they can be drained out. The air then flows through the element where the smaller particles are removed and the filtered air passes downstream. The leak proof drain valve has an 'O' ring seal that can be opened and closed without tools.



Dimensions/weights (approximate) in mm and kg

A	B	C	E	E1	Weight
17	152	64	49	73	0.6

A	B	C	E	E1	Weight
25	170	64	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-P504-22) 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

Example: 1 off IX1M Monnier international compressed air filter having 1/4" screwed BSP connections.

Note: If any optional extras are required they must be clearly specified when placing an order.

Spare parts

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

Available spares

Bowl	Polycarbonate bowl	A, B
assembly	Metal bowl (with or without sight level)	B, H
Element set		B, C, D
Bowl guard assembly		F, G (2 pieces)

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 1/2" IX1M Monnier international compressed air filter.

