

1/2" General Purpose Filter Installation & Maintenance Instructions

TECHNICAL DATA

Fluid: Compressed air
 Maximum pressure:
 Metal bowl: 17 bar (250 psig)
 Operating temperature*:
 Metal bowl: -34° to +80°C (-30° to +175°F)
 * Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
 Port size: 1/2"
 Thread form: PTF, or ISO G
 Drain: Automatic
 Bowl: Metal with liquid level indicator
 Particle removal: 5 µm filter element
 Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)
 Nominal bowl size: 0,1 litre (3.5 fluid ounce)
 Automatic drain connection: 1/8"
 Automatic drain operating conditions (float operated):
 Bowl pressure required to close drain: Greater than 0,3 bar (5 psig)
 Bowl pressure required to open drain: Less than 0,2 bar (3 psig)
 Minimum air flow required to close drain: 0,1 dm³/s (0.2 scfm)
 Manual operation: Depress pin inside drain outlet to drain bowl
 Materials:
 Body: Aluminum
 Bowl:
 Metal: Aluminum
 Metal bowl liquid level indicator lens: Transparent nylon
 Element: Sintered polypropylene
 Elastomers: Neoprene and nitrile
 Mechanical Service Indicator (option on some products)
 Body: Transparent nylon
 Internal parts: Acetal
 Spring: Stainless steel
 Elastomers: Nitrile

REPLACEMENT ITEMS

Service kit (includes items circled on exploded view)
8940169068
 Liquid level lens kit (43, 45, 46, 47).....8940169080
 Filter element, 5µm, red speckles (50).....8940169083
 Automatic drain (40, 41, 42).....8940169136
 Mechanical Service Indicator (1).....8940169263

INSTALLATION

- Shut-off air pressure. Install filter in air line -
 - vertically (bowl down),
 - with air flow in direction of arrow on body,
 - upstream of regulators, lubricators, and cycling valves,
 - as close as possible to the air supply when used as a main line filter,
 - as close as possible to the device being serviced when used as a final filter.
- Connect piping to proper ports using pipe thread sealant on male threads only. Do not allow sealant to enter interior of unit.
- Push bowl, or bowl with guard, into body and turn fully clockwise before pressurizing.
- Flexible tube with 5mm (3/16") minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 5mm (3/16"). Avoid restrictions in the tube.

SERVICING

- Open manual drain to expel accumulated liquids. Keep liquids below baffle (49).
- Clean or replace filter element when dirty.

DISASSEMBLY

- Filter can be disassembled without removal from air line.
- Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
- Remove bowl - push into body and turn counterclockwise.
- Disassemble in general accordance with the item numbers on exploded view. Do not remove the drains unless replacement is necessary. Remove and replace only if they malfunction.

CLEANING

- Clean plastic lens (45) with warm water only. Clean other parts with warm water and soap.
- Rinse and dry parts. Blow out internal passages in body (13) with clean, dry compressed air. Blow air through filter element (50) from inside to outside to remove surface contaminants.
- Inspect parts. Replace those found to be damaged.

ASSEMBLY

- Lubricate o-rings.
 - Assemble filter as shown on the exploded view.
 - Push bowl, or bowl with guard, into body and turn fully clockwise.
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|--------------------------|-----------------------------|
| 4. Torque Table | Torque in N-m (Inch-Pounds) |
| 2 (Screw) | 2,8 to 3,9 (25 to 35) |
| 41 (Nut) | 2,3 to 2,8 (20 to 25) |
| 43 (Screw) | 1,7 to 3,4 (15 to 30) |
| 49 (Baffle), 51 (Louver) | 1,1 to 2,2 (10 to 20) |

CAUTION

Water vapor will pass through these units and could condense into liquid form downstream as air temperature drops. Install an air dryer if water condensation could have a detrimental effect on the application.

WARNING

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **Technical Data**.

These products are not designed for use with fluids other than air, for nonindustrial applications, or for life-support systems.

