#### TECHNICAL DATA

Fluid: Compressed air Maximum pressure: Metal bowl

Automatic drain: 10 bar (150 psig)

Operating temperature

Metal bowl: -34° to +65°C (-30° to +150°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Main port size: 1/4

Main port thread form: PTF, or ISO G

Gauge ports:

1/8 PTF with PTF main ports Rc1/8 with ISO G main ports

Drain: Automatic

Bowl:

Long metal with liquid level indicator Outlet pressure adjustment ranges: \*\*

0,3 to 10 bar (5 to 150 psig)

Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges

Particle removal: 5 µm filter element
Air quality: Within ISO 8573-1, Class 3 (particulates)
Typical flow with 10 bar (150 psig) inlet pressure, 6,3 bar (90 psig) set pressure and 1 bar (15 psig) droop from set: 38 dm<sup>3</sup>/s (80 scfm)

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 dm<sup>3</sup>/s (0.2 scfm)

Manual operation: Depress pin inside drain outlet Nominal bowl size:

Long bowl: 65 ml (2.2 fluid ounce)

Materials: Body: Zinc

Bonnet: Acetal Valve: Brass Bowl: Metal: Zinc

Metal bowl liquid level indicator lens: Transparent

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Element: Sintered polypropylene Elastomers: Neoprene and nitrile

# REPLACEMENT ITEMS

Service Kit (includes items circled on exploded	
Relieving	8940169076
Liquid level lens kit (46, 48, 49, 50)	
Filter element, 5µm, red speckles (53)	8940169082
Auto drain (45A, 45B, 45C)	8940169135

# PANEL MOUNTING DIMENSIONS

Panel mounting hole diameter: 40 mm (1.57") Panel thickness: 2 to 4 mm (0.06" to 0.16")

# INSTALLATION

- 1. Shut off air pressure. Install filter/regulator in air line - vertically (bowl down),
- · with air flow in direction of arrow on body, upstream of lubricators and cycling valves
- as close as possible to the device being serviced.
- Connect piping to proper ports using pipe thread sealant on male threads only. Do not allow sealant to enter interior of unit.
- 3. Push bowl, or bowl with guard, into body and turn fully clockwise before pressurizing.
  4. 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
- 5 Install a pressure gauge or plug gauge ports. Gauge ports can also be used as additional outlets for regulated

#### ADJUSTMENT

- 1. Before applying inlet pressure to filter/regulator, turn adjustment (1) counterclockwise to remove all force on
- regulating spring (12).

  2. Apply inlet pressure, then turn adjustment (1) clockwise to increase and counterclockwise to decrease pressure
- Always approach the desired pressure from a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure less than that desired, then bring up to the desired pressure.

  4. KNOB ADJUSTMENT. Push knob down to lock pressure
- setting. Pull knob up to release.

#### SERVICING

1. Clean or replace filter element when dirty

## DISASSEMBLY

- 1. Filter/regulator can be disassembled without removal
- from air line.
  2. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
- 3. Turn adjustment (1) fully counterclockwise.
- 4. Remove bowl push into body and turn counterclockwise.
- 5. Disassemble in general accordance with the item numbers on exploded view. Do not remove the drains unless replacement is necessary. Remove and replace drains only if they malfunction.

### CI FANING

- 1. Clean parts with warm water and soap.
- 2. Rinse and dry parts. Blow out internal passages in body (16) with clean, dry compressed air. Blow air through filter element (53) from inside to outside to remove surface contaminants.
- 3. Inspect parts. Replace those found to be damaged.

#### ASSEMBLY

- 1. Lubricate the following items with o-ring grease.
- 4 (Thrust washer) outer circumference and both sides. 5 (Adjusting screw) threads and tip. 54 (Center-post) Bore for valve (57).

- 57 (Valve) stem. 45, 50, 58, 59 (0-rings)
- 2. Assemble the unit as shown on the exploded view. Push bowl, or bowl with guard, into body and turn fully
- 3. Torque Table

Item	Torque in Nm (Inch-Pounds)
2, 9 (Screw)	2,3 to 2,8 (20 to 25)
45B (Nut)	2,3 to 2,8 (20 to 25)
46 (Screw)	1,9 to 2,5 (17 to 22)
52 (Baffle)	0,5 to 0,7 (4 to 6)
54 (Center-post)	0,7 to 0,9 (6 to 8)

# 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.

If outlet pressure in excess of the filter/regulator pressure setting could cause downstream equipment to rupture or malfunction, install a pressure relief device downstream of the filter/regulator. The relief pressure and flow capacity of the relief device must satisfy system requirements.

The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals

These products are not designed for use with fluids other than air, for non industrial applications, or for lifesupport systems.

