**Option selector**

<table>
<thead>
<tr>
<th>Port</th>
<th>Adjustment</th>
<th>Drain</th>
<th>Bowl</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1/4&quot;</td>
<td>A</td>
<td>M</td>
</tr>
<tr>
<td>3</td>
<td>3/8&quot;</td>
<td>B</td>
<td>N</td>
</tr>
<tr>
<td>4</td>
<td>1/2&quot;</td>
<td>C</td>
<td>O</td>
</tr>
<tr>
<td>6</td>
<td>3/4&quot;</td>
<td>D</td>
<td>P</td>
</tr>
</tbody>
</table>

**Spring (Outlet pressure range)**

- F: 0.3 ... 6 bar (45 ... 89 psig)
- M: 0.3 ... 10 bar (45 ... 150 psig)
- S*: 0.7 ... 17 bar (10 ... 250 psig)

**Technical features**

Fluid: Compressed air

- Maximum pressure: 17 bar (250 psig)
- Metal bowl: 17 bar (250 psig)
- Operating temperature: 106 °C (225 °F)
- Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
- Metal bowl: –20° to +80°C (0° to +175°F)
- Transparent bowl: –20° to +50°C (0° to +125°F)
- Operating temperature*: Metal bowl: 17 bar (250 psig)
- Maximum pressure: Fluid: Compressed air

- Manual operation: Depress pin inside drain pipe and connector, minimum 5 mm (0.2") clearance.
- Automatic operation: Depress pin inside drain pipe and connector, minimum 5 mm (0.2") clearance.

- To operate automatic drain manually, lift manual operating pin in bottom outlet with a blunt rod.
- To operate automatic drain manually, lift operating pin in bottom outlet with a blunt rod.
- To operate automatic drain manually, lift operating pin in bottom outlet with a blunt rod.
- Clean or replace filter element when dirty.

**Replacement Items**

- Elastomers: Synthetic rubber
- Element: Sintered plastic
- Metal bowl sight glass, optional: Pyrex
- Metal bowl liquid level indicator lens, standard: Transparent, optional: Polycarbonate

**Materials**

- Body: Zinc
- Bonnet: Aluminium
- Valve: Brass
- Bowl: Metal: Aluminium
- Transparent, optional: Polycarbonate
- Metal bowl liquid level indicator lens, standard: Grilamid

**Panel Mounting Dimensions**

- Panel mounting hole diameter: 52 mm (2.06")
- Panel thickness: 6 mm (0.25") max.

**Installation**

1. Install unit vertically in air line
2. upstream of lubricators and cycling valves,
3. with air flow in direction of arrow on body,
4. as close as possible to the device being serviced.
5. Before assembling the basic unit into the yoke
6. the port seal o-rings should be lightly smeared with o-ring grease.
7. Locate clamp ring under lugs on top of yoke, offer basic unit into yoke with directional arrows correctly aligned (an interference fit prevents assembly if misaligned) before engaging and fully tightening the clamp ring.
8. Turn bowl or bowl guard fully clockwise into body before pressurizing. Lock symbols on body and bowl guards must align.

**Service kit, contains required items circled:**

- Relieving 4383-200
- Non relieving 4383-201
- Prismatic sight glass 4380-040
- Pyrex sight glass 4380-041
- Filter element, 5 µm 4338-01
- Filter element, 40 µm 4338-02
- Manual drain 684-84
- Automatic drain 3000-97
- Tamper resistant cover (knob adjustment only) 4355-51

**Our policy is one of continued research and development. We therefore reserve the right to amend,**

without notice, the specifications given in this document. (1999 - I&M8079d) © 2015 IMI International s.r.o.
Disassembly

1. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero. Turn adjustment (1 or 7) fully counterclockwise.
2. For ease of maintenance the unit can be removed from the yoke by unscrewing the clamp ring, which will jack the unit out downwards.
3. To disassemble the filter section lift and turn the filter bowl counterclockwise and remove with bowl o-ring.
4. Disassemble in general accordance with the item numbers on exploded view. Do not remove the drains or the service indicator unless replacement is necessary. Remove and replace only if they malfunction.
5. To disassemble the regulator section turn the adjuster (1 or 7) counter-clockwise to relieve compression on the adjusting spring (12). Unscrew the bonnet assembly (3 or 9) using the spanner flats provided. Remove the adjusting spring (12), slip ring (13) and diaphragm (14).
6. Inspect all components for damage, foreign matter and cleanliness and reassemble using service replacement parts where necessary.

Cleaning

1. Partial cleaning of the filter element is possible by washing the element in soapy water and blowing out thoroughly with compressed air.
2. Rinse and dry parts. Blow out internal passages in body with clean, dry compressed air.
3. Inspect parts. Replace those found to be damaged. Replace plastic bowl with a metal bowl, externally or internally, can also result in cloudiness.

Assembly

1. Lubricate o-rings with o-ring grease.
2. Check valve for free movement in the valve guide.
3. Assemble the unit as shown on the exploded view.
4. Torque Table

<table>
<thead>
<tr>
<th>Item</th>
<th>Nm (Inch-Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 9 (Bonnet)</td>
<td>25 ... 30 (227 to 273)</td>
</tr>
<tr>
<td>55 (Valve guide)</td>
<td>2 ... 2.7 max (18 to 25)</td>
</tr>
</tbody>
</table>

5. Assemble baffle (53), contact + 1/4 turn.
6. Turn bowl or bowl with guard fully clockwise into body.

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. Polycarbonate plastic bowls can be damaged and possibly burst if exposed to such substances as certain solvents, strong alkalies, compressor oils containing ester-based additives or synthetic oils. Fumes of these substances in contact with the polycarbonate bowl, externally or internally, can also result in damage. Clean with warm water only. Use metal bowl in applications where a plastic bowl might be exposed to substances that are incompatible with polycarbonate.

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 during use.

Before using these products with fluids other than air, for industrial applications, or for life-support systems consult Norgren.

Use in potentially explosive atmospheres

Code of device according EC directive 94/9/EC ExII 2 GD c TX
- Only non-flammable gases to be used as a medium.
- Surface temperature dependant on process fluid temperature and ambient temperature must be below the ignition temperature of the flammable gas or dust.
- Earth unit and/or pipework to avoid electrostatic discharge.
- Precautions should be taken to prevent hazard from adiabatic compression.
- Use wet cloth for cleaning.
- Protect the unit from object falling onto it.
- Avoid contact with corrosive environment.
- For servicing the unit it is recommended to carry out this work outside of the danger zone.
- For details of ignition hazard assessment contact Norgren.