Filter/Regulator

**B64G** - ★★★ - ★★★ - ★★★

**Port**
- 2...1/4"  
- 3...3/8"  
- 4...1/2"

**Thread**
- A...PTF (1/8 PTF gauge ports)  
- B...ISO Rb taper (1/8 ISO Rb gauge ports)  
- C...ISO G parallel (1/8 ISO G gauge ports)

**Adjustment**
- K...Knob  
- T...T-bar  
- S...Knob

**Diaphragm**
- R...Relieving  
- N...Non relieving

**Drain**
- A...Automatic  
- M...Manual  
- Q...Manual 1/4 turn

**Bowl**
- D...Metal  
- P...Transparent with guard

**Element**
- 1.....5 µm  
- 2.....25 µm  
- 3.....40 µm

**Gauge**
- G...With  
- N...Without

**Spring (Outlet Pressure Range)**
- F...0.3 to 4 bar (3 to 60 psig)  
- M...0.3 to 19 bar (3 to 150 psig)

**Panel mounting hole diameter**: 52 mm (2.06”)

**Manual drain**: ..............................................................684-84  
**Filter element, 40 µm**: ...............................................4338-02  
**Filter element, 5 µm**: .................................................4338-01

**Pyrex sight glass**: ....................................................4380-041  
**Prismatic sight glass**: ..............................................4380-040

**Service kit, contains required items circled:**
- REPLACEMENT ITEMS

<table>
<thead>
<tr>
<th>Material</th>
<th>(90 psig) set pressure and 1 bar (15 psig) droop from set:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air quality:</td>
<td>Within ISO 8573-1, Class 3 and Class 5</td>
</tr>
<tr>
<td>Particle removal:</td>
<td>5 µm, 25 µm, or 40 µm filter element</td>
</tr>
<tr>
<td>Operating temperature*:</td>
<td>90°C, 100°C, and 110°C (20°C, 21°C, and 23°C respectively)</td>
</tr>
<tr>
<td>Maximum pressure:</td>
<td>10.0 bar (150 psig)</td>
</tr>
</tbody>
</table>

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Materials:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Body: Zinc</td>
<td></td>
</tr>
<tr>
<td>Bonnet: Aluminium</td>
<td></td>
</tr>
<tr>
<td>Valve: Brass</td>
<td></td>
</tr>
<tr>
<td>Bowl: Metal: Aluminium</td>
<td></td>
</tr>
<tr>
<td>Transparent, optional:</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>Metal bowl liquid indicator lens, standard: Grilamid</td>
<td></td>
</tr>
<tr>
<td>Metal bowl sight glass, optional: Pyrex</td>
<td></td>
</tr>
<tr>
<td>Element: Sintered plastic</td>
<td></td>
</tr>
<tr>
<td>Elastomers: Synthetic rubber</td>
<td></td>
</tr>
</tbody>
</table>

**REPLACEMENT ITEMS**

Service kit, contains required items circled:
- Relieving: 4383-020  
- Non relieving: 4383-021
- Prismatic sight glass: 4380-040  
- Pyrex sight glass: 4380-041
- Filter element, 5 µm: 4338-01  
- Filter element, 40 µm: 4338-042  
- Manual drain: 684-84  
- Automatic drain: 3000-97  
- Tamper resistant cover (knob adjustment only): 4355-51

**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 -
   - upstream of lubricators and cycling valves,  
   - with air flow in direction of arrow on body,  
   - as close as possible to the device being serviced.
2. Before assembling the basic unit into the yoke the port seal o-rings should be lightly smeared with o-ring grease.  
3. 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.  
4. Turn bowl or bowl guard fully clockwise into body before pressurizing. Lock symbols on body and bowl guards must align.
5. Install a pressure gauge or plug the gauge ports. Gauge ports can also be used as additional outlets for regulated air.
6. Auto-drain units may be fitted with a short drain pipe and connector, minimum 5 mm bore, to the G1/8 bottom outlet.

**ADJUSTMENT**

1. Before applying inlet pressure to filter/regulator, turn adjustment (1 or 6) clockwise to remove all force on regulating spring (12).  
2. Apply inlet pressure, then turn adjustment (1 or 6) clockwise to increase and counterclockwise to decrease pressure setting.  
3. 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.

**SERVICING**

1. Open manual drain to expel accumulated liquids. Keep liquids below baffle (63).  
2. To operate automatic drain manually, lift operating pin in bottom outlet with a blunt rod.  
3. Clean or replace filter element when dirty.

**DISASSEMBLY**

1. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero. Turn adjustment (1 or 7) fully counterclockwise.  
2. With non-relieving filter/regulators, make pressure reductions with some air flow in the system. If made under no flow (dead-end) conditions, the filter/regulator will trap the over-pressure in the downstream line.  
3. KNOB ADJUSTMENT. Push knob down to lock pressure setting. Pull knob up to release. Install tamper resistant cover (see Replacement Items) to make setting tamper resistant.

5. T-BAR ADJUSTMENT. Tighten lock nut (8) to lock pressure setting.

**CLEANING**

1. Partial cleaning of the filter element is possible by washing the element in soapy water and blowing out thoroughly with compressed air. Replacement by a clean element is recommended. Clean plastic bowl and lens (45) with warm water only. Clean other parts with warm water and soap.  
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 if plastic bowl shows signs of cracking or cloudiness.

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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>Torque in N-m (Inch-Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 9 (Bonnet)</td>
<td>25 to 30 (227 to 273)</td>
</tr>
<tr>
<td>55 (Valve guide)</td>
<td>2.0 to 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 non-industrial applications, or for life-support systems consult Norgren.