Installation & Maintenance Instructions

**B72G**

---

**Port**

- Thread Form: A...PTF
- Thread Form: B...ISO Rp taper
- Thread Form: C...ISO g parallel

**Adjustment**

- Panel Mounting Dimensions: 40 mm (1.57")

**Drain**

- 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.

**Technical Data**

- Fluid: Compressed air
- Maximum pressure: Transient: 10 bar (150 psig)
- Metal bowl: Manual or semi automatic drain: 17 bar (250 psig)
- Automatic drain: 10 bar (150 psig)
- Operating temperature: * Transient: -34°C to +50°C (-30°C to +125°F)
- * Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
- * 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.

**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.
2. 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 operated 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 air.

**Adjustment**

1. Before applying inlet pressure to filter/regulator, turn adjustment (1 or 7) counterclockwise to remove all force on regulating spring (12).
2. Apply inlet pressure, then turn adjustment (1 or 7) 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.

**Note**

- 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.

4. **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. **BAR Adjustment**. Tighten lock nut (8) to lock pressure setting.

**Servicing**

1. Open manual drain to expel accumulated liquids. Keep liquids below baffle (52).
2. Clean or replace filter element when dirty.
3. Use a non-relieving filter/regulator to prevent the over-pressure in the downstream line.
4. **Relieving**. Pull knob up to release. Install tamper resistant cover (see Replacement Items) to make setting tamper resistant.

**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 or 7) fully counterclockwise.
4. **Remove bowl** - 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. **Inspection**. Replace those found to be damaged. Replace plastic bowl with a metal bowl if plastic bowl shows signs of cracking or cloudiness.
**ASSEMBLY**

1. Lubricate the following items with o-ring grease.
   - 4 (Thrust washer) - outer circumference and both sides.
   - 5, 7 (Adjusting screw) - threads and tip.
   - 18, 31, 40 (Manual drain body) - the portion of the body that contacts the bowl, and the hole that accommodates the stem of drain valve (19, 32, 41).
   - 54 (Center-post) - Bore for valve (57).
   - 57 (Valve) - stem.
   - 23, 28, 36, 37, 45, 50, 58, 59 - O-rings

2. Assemble the unit as shown on the exploded view. Push bowl, or bowl with guard, into body and turn fully clockwise.

3. Torque Table

<table>
<thead>
<tr>
<th>Item</th>
<th>Torque in Nm (Inch-Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, 9 (Screw)</td>
<td>2.3 to 2.8 (20 to 25)</td>
</tr>
<tr>
<td>22, 35, 44, 25, 36B, 45B (Nut)</td>
<td>2.3 to 2.8 (20 to 25)</td>
</tr>
<tr>
<td>46 (Screw)</td>
<td>1.9 to 2.5 (17 to 22)</td>
</tr>
<tr>
<td>52 (Baffle)</td>
<td>0.5 to 0.7 (4 to 6)</td>
</tr>
<tr>
<td>54 (Center-post)</td>
<td>0.7 to 0.9 (6 to 8)</td>
</tr>
</tbody>
</table>

**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.