

**Instrument Filter/Regulator  
Aluminium Model  
1/4" PTF**

- **Compact instrument units with high performance**
- **Stable regulation and temperature compensation**
- **Excellent flow and regulation characteristics**


**Technical Data**

Fluid: Compressed air

Maximum pressure:

Manual drain: 20 bar (300 psig)

Operating temperature: -40° to +80°C (-40° to +175°F) \*

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

Particle removal: 5 µm or 25 µm filter element

Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)

Typical flow with 7 bar (100 psig) inlet pressure, 1 bar (15 psig) set pressure and a droop of 0,05 bar (1 psig) from set:

8 dm<sup>3</sup>/s (17 scfm)

Manual Drain

Nominal bowl size:

70 ml (2.4 fluid ounce)

Gauge ports:

1/4" PTF

Materials:

Body: Aluminium

Bonnet: Aluminium

Bowl: Aluminium

Adjusting screw: Steel

Elements:

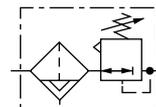
25 µm: High density polyethylene

5 µm: Ceramic pyrolyth

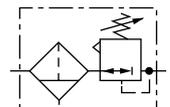
Elastomeric materials: Synthetic rubber

**Ordering Information**

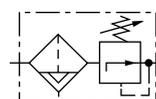
See *Ordering Information* on the following pages.

**ISO Symbols**


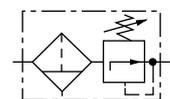
Automatic Drain, Relieving



Manual Drain, Relieving



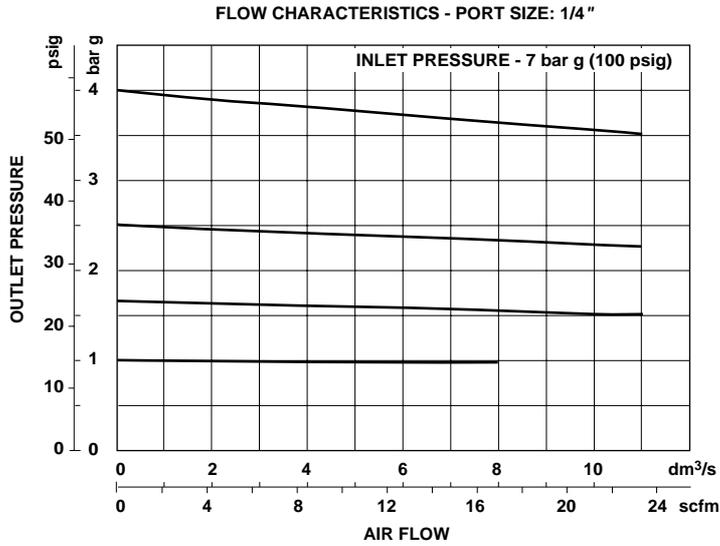
Automatic Drain, Non Relieving



Manual Drain, Non Relieving



## Typical Performance Characteristics



**Ordering Information.** Models listed are PTF threads, automatic drain, 25 µm element, hex. screw adjustment, 0,04 to 2 bar (0.6 to 30 psig) outlet pressure adjustment range and without gauge.

| Port Size | Model Number | Relief Type   | Weight kg (lbs) |
|-----------|--------------|---------------|-----------------|
| 1/4" PTF  | B38-200-B2CA | Relieving     | 0,53 (1.18)     |
| 1/4" PTF  | B38-201-B2CA | Non relieving | 0,53 (1.18)     |

## Alternative Models

B 3 8 - ★ ★ ★ - ★ ★ ★

|           |            |
|-----------|------------|
| Port Size | Substitute |
| 1/4" PTF  | 2          |

|           |            |
|-----------|------------|
| Type      | Substitute |
| Aluminium | 0          |

|                                |            |
|--------------------------------|------------|
| Diaphragm                      | Substitute |
| Relieving                      | 0          |
| Non relieving                  | 1          |
| Relieving, bracket and nut     | 2          |
| Non relieving, bracket and nut | 3          |
| Relieving with nut             | 4          |
| Non relieving with nut         | 5          |

|                |            |
|----------------|------------|
| Threads        | Substitute |
| PTF            | A          |
| ISO Rc taper   | B          |
| ISO G parallel | D          |
| API.LP.INT     | K          |

|                                    |            |
|------------------------------------|------------|
| Outlet Pressure Adjustment Ranges* | Substitute |
| 0,04 to 2 bar (0.6 to 30 psig)     | C          |
| 0,07 to 4 bar (1 to 60 psig)       | F          |
| 0,25 to 7 bar (3.6 to 100 psig)    | K          |

|         |            |
|---------|------------|
| Element | Substitute |
| 5 µm    | 1          |
| 25 µm   | 2          |

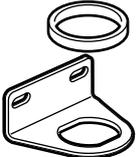
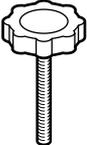
|        |            |
|--------|------------|
| Drain  | Substitute |
| Manual | B          |

\* 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.

Please contact our technical service for details of non standard models including maximum pressure stop, etc.



**Accessories**

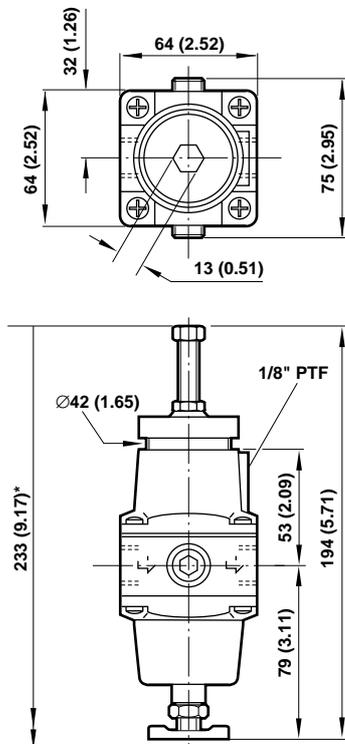
|  |   |   |  |
|--|---|---|--|
| <br>Wall Mounting Bracket Kit<br>18-001-974 | <br>Panel Nut<br>5988-01 | <br>Plastic Adjusting Knob<br>655-97 | <br>Tamper Resistant Waterproof Cap<br>18-004-987 |
|--|---|---|--|

|   |            |
|---|------------|
| <br>Ø 40 mm<br>Pressure Gauge      1/4" PTF Connection |            |
| 2,5 bar g (35 psig)   | 18-013-910 |
| 6 bar g (85 psig)   | 18-013-911 |

**Dimensions mm (inches)**

Panel mounting hole diameter: 42 mm (1.65")

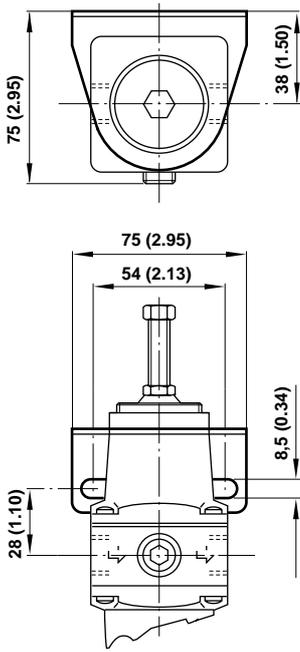
Panel thickness: 0 to 6 mm (0 to 0.24")



\* Minimum clearance required to remove bowl.



### Bracket Mounting



### Bracket Kit Reference

| Item       | Part Number |
|------------|-------------|
| All models | 18-001-974  |

Includes panel mounting nut.

### Service Kits

| Item         | Type          | Part number |
|--------------|---------------|-------------|
| 2 bar        | Relieving     | R38-100R    |
|              | Non relieving | R38-100NR   |
| 4 bar, 7 bar | Relieving     | R38-101R    |
|              | Non relieving | R38-101NR   |

Service kits includes diaphragm assembly, o-ring, valve, valve spring and 8 pan head screws.

### 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'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

**System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.**

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

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