

- > **Port size: G1/4**
- > **Robust design**
- > **Reliable operation for more than 20 years if maintenance program is being followed**

- > **Options are designed to tailor or customize D247 with diaphragm to application needs, hence increasing overall efficiency**



### Technical features

Ideal for variable inlet pressure and environmental temperature the maintains stable downstream pressure control pressure control. The heavy duty construction makes the B247 perfect for arduous conditions and harsh environments. Suitable for medium and low outlet pressure. It's manually adjustable, differential version, balanced design optionnal back pressure regulator

#### Applications:

- Gas distribution/mixing
- Pressure test rigs
- Marine industries
- Off shore / aggressive environments
- Oxygen use approved
- Compressor regulation
- Air, O2, CH4 compressor

#### Medium:

Any gases, air, N2, O2, Ar, H4, H2, C2H2, CO2, N2O or some liquids

#### Maximum inlet pressure:

250 barg (3625 psig)

#### Outlet pressure range:

0 ... 0,4 barg (0 ... 5.8 psig)

0 ... 1,75 barg (0 ... 2.5 psig)

0,5 ... 3 barg (7.3 ... 43 psig)

1 ... 5 barg (14.5 ... 73 psig)

1,5 ... 6 barg (22 ... 87 psig)

1,5 ... 10 barg (22 ... 145 psig)

#### Flow rate indication:

Flow rate indication is given for an equivalent flow with air which is 2,8 Nm<sup>3</sup>/h per Bar of absolute pressure downstream (internal Ø 1,5 mm and ports 1/4") in sonic conditions.

#### Leakage:

Helium leak tested:

Internal leak tight: >10<sup>-3</sup> mbar.l/sec

External leak tight: >10<sup>-4</sup> mbar.l/sec

Helium leak tested to

10<sup>-8</sup> atm.cm<sup>3</sup>/sec<sup>-1</sup> (on request)

#### Weight:

2,6 kg

#### Ambient/Media temperature:

-20 ... +50°C (-4 ... +122°F)

#### Note:

Suggested filter F509L

Option 1003

3 pieces fittings recommended:

T1847 G1/4"

#### Materials:

Body: Aluminium-bronze

Valve insert: Stainless steel

Seat: PCTFE, Peek, Torlon

### Option selector

**D247BL★★NI★★★★★**

Outlet pressure range	Substitute
0 ... 0,4 barg	<b>08</b>
0,3 ... 1,75 barg	<b>12</b>
0,5 ... 3 barg	<b>15</b>
1 ... 5 barg	<b>18</b>
1,5 ... 6 barg	<b>19</b>
1,5 ... 10 barg	<b>21</b>
Valve material	Substitute
PCTFE	<b>K</b>
Peek	<b>P</b>
Torlon	<b>T</b>

Main options	Substitute
Panel fixing flange	<b>1010</b>
Hand wheel with blocking screw	<b>1115</b>
Chemical Nickel plated	<b>10NC</b>
HG gauge port (horizontal position - inlet on the left)	<b>1159</b>
Panel fixing flange	
VD gauge port (vertical position - inlet on the right)	<b>1054</b>
Hand wheel with blocking screw	
VG gauge port (vertical position - inlet on the left)	<b>1030</b>
Panel fixing flange	
Without relief valve	
VD gauge port (vertical position - inlet on the right)	<b>1018</b>
Without relief valve	
VG gauge port (vertical position - inlet on the left)	<b>1019</b>
Without relief valve	
VG gauge port (vertical position - inlet on the left)	<b>1084</b>
Panel fixing flange	
Hand wheel with blocking screw	
Without relief valve	
VG gauge port (vertical position - inlet on the left)	<b>1248</b>
Panel fixing flange	
Without relief valve	
VD gauge port (vertical position - inlet on the right)	<b>1308</b>
Hand wheel with blocking screw	

More options are available upon specific request

**Option selector service kits**

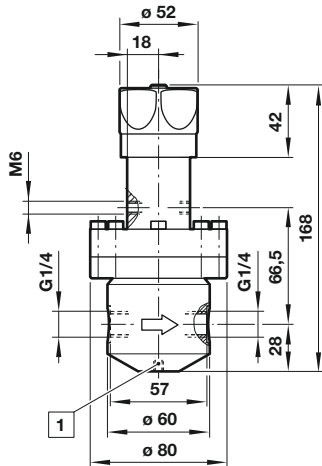
★D247★★★★★

Service kit	Substitute
Complete repair and maintenance kit with valve assembly	<b>K</b>
'O' rings only	<b>J</b>

Manufacture code	Substitute
Norgren internal use	
Elastomer	Substitute
NBR	<b>N</b>

**Dimensions**

Dimensions in mm  
 Projection/First angle



1 Two panel mounting threads M5

**Warning**

Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/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 IMI Precision Engineering, IMF sas.

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.