# 11-818
# Precision pressure regulator

- **Port size: G1/4**
- **Precision instruments with integral pilot to ensure very close pressure control in a compact form**
- **Panel mounting facility**

Note: Not recommended for dead-end applications

## Technical features

**Medium:**
Compressed air
Note: 5 µm prefiltration and oil-free are required!
**Maximum inlet pressure:**
LP: 8 bar (116 psi)
NP: 10 bar (145 psi)
HP: 14 bar (203 psi)
**Flow:**
See diagrams on page 2

**Relieving:**
Standard
**Pressure range:**
NP: 0,07 ... 4 bar (1 ... 58 psi)
LP: 0,02 ... 0,5 bar (0,2 ... 7 psi)
HP: 0,4 ... 10 bar (5,8 ... 145 psi)
**Port size:**
G1/4
**Gauge port:**
See table below

**Standard compliances:**
II 2G Ex h IIC T6 Gb
II 2D Ex h IIIC T85° Db
**Ambient/Media temperature:**
0 ... +70°C (+32° ... +158°F)
Version with gauge:
0 ... +65°C (+32° ... +149°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
**Maximum bleed flow at :**
LP - 6.9 bar (100 psig) : 0,013 dm³/s (0.03 scfm)
NP - 6.9 bar (100 psig ) : 0,013 dm³/s (0.03 scfm)
HP - 13.8 bar (200 psig) : 0,027 dm³/s (0.06 scfm)
Maximum bleed rate occurs under dead-end (no flow) conditions.

**Materials:**
Body & bonnet: Zinc alloy
Adjusting knob: Acetal resin
Elastomers: NBR

## Technical data, standard models

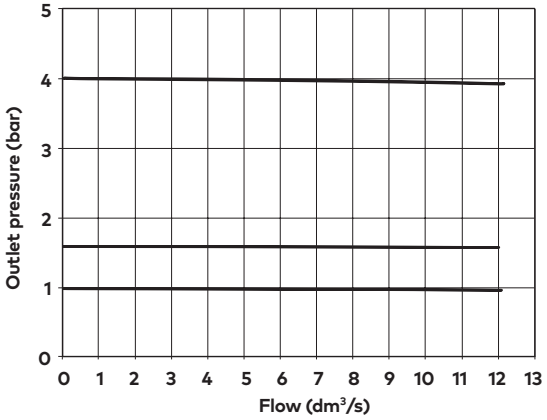
| Symbol | Port size | Pressure range (bar) | Accuracy (bar) *1) | Relieving | Gauge port | Tamper proof adjusting screw | Weight (kg) | Model |
|---|---|---|---|---|---|---|---|---|
|  | G1/4 | 0,02 ... 0,5 (low) | 0,01 | Standard | – | – | 0,64 | 11-818-999 |
| | G1/4 | 0,02 ... 0,5 (low) | 0,01 | Standard | – | Standard | 0,64 | 11-818-998 |
| | G1/4 | 0,07 ... 4 (standard) | 0,03 | Standard | – | – | 0,64 | 11-818-100 |
| | G1/4 | 0,07 ... 4 (standard) | 0,03 | Standard | – | Standard | 0,64 | 11-818-101 |
| | G1/4 | 0,4 ... 10 (high) | 0,05 | Standard | – | – | 0,64 | 11-818-110 |
| | G1/4 | 0,02 ... 0,5 (low) | 0,01 | Standard | R1/4 | – | 0,64 | 11-818-987 |
| | G1/4 | 0,07 ... 4 (standard) | 0,03 | Standard | R1/4 | – | 0,64 | 11-818-993 |
| | G1/4 | 0,4 ... 10 (high) | 0,05 | Standard | R1/4 | – | 0,64 | 11-818-991 |

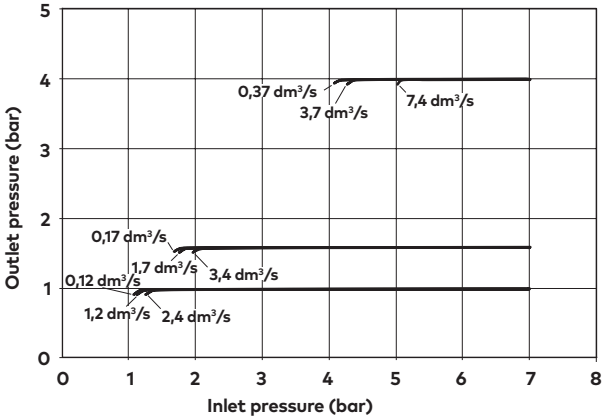
*1) Typical mid-range variance from set pressure with 7 bar inlet at 2 dm³/s
Note: 11-818 is not a constant bleed device, when being used under flow conditions no air is consumed.
Air bleed is only effective under zero flow conditions as in a dead end application.

## Flow characteristics

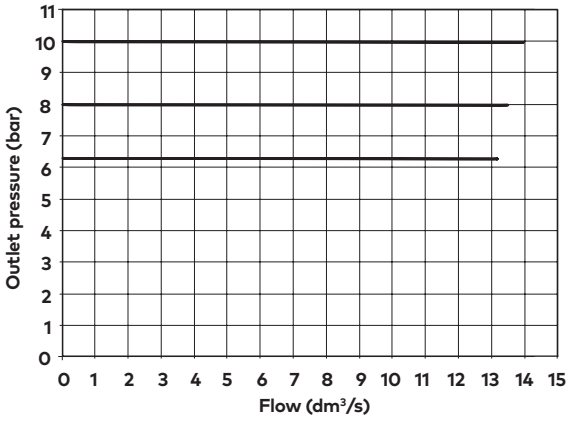
## Regulating characteristics

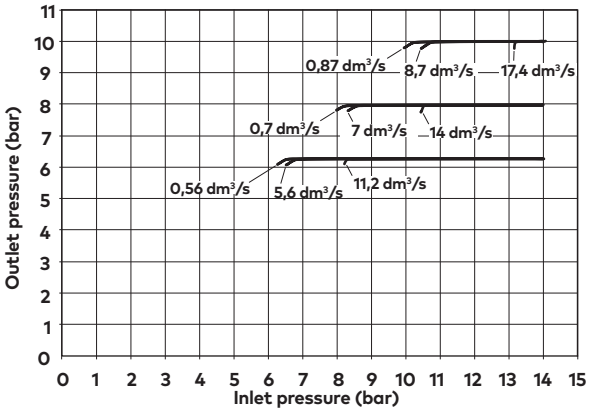
### Standard pressure version:
### Inlet pressure 7 bar (100 psi); pressure range 0,07 ... 4 bar (1 ... 58 psi)



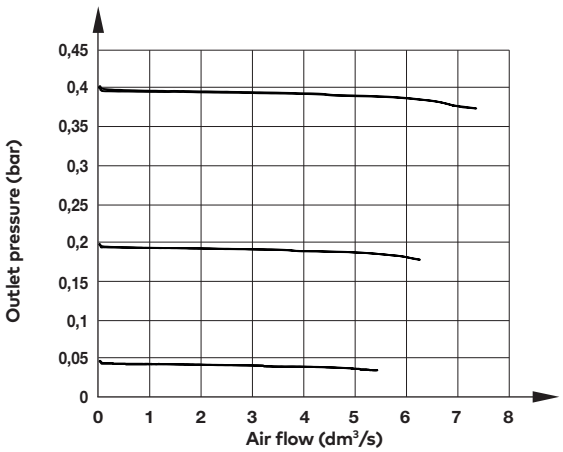



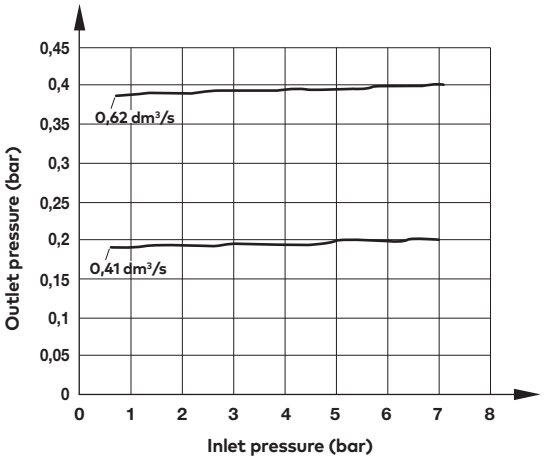

### High pressure version:
### Inlet pressure 14 bar (200 psi); pressure range 0,4 ... 10 bar (5,8 ... 145 psi)




### Low pressure version:
### Inlet pressure 7 bar (100 psi); pressure range 0,02 ... 0,5 bar (0,2 ... 7 psi)



## Accessories

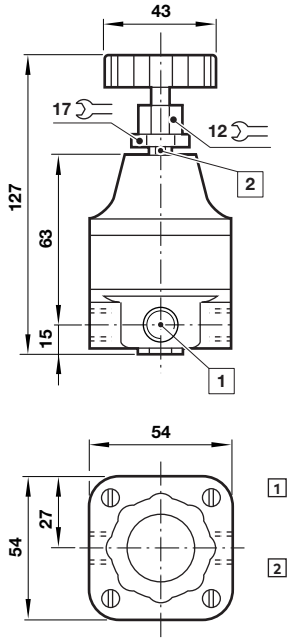
| Bracket | Gauge<br>Ø 40 mm, Port size R1/8 | Concentric reducing adaptors for gauge ports* |
|---|---|---|
|  |  |  |
| D50159014 | 0 ... 1,6 bar: 18-015-991 | R1/4-G1/8 150232818 |
| | 0 ... 4 bar: 18-015-990 | |
| | 0 ... 10 bar: 18-015-989 | |

*Required to screw above mentioned gauges into the regulator.

## Service kits

| Service kits |
|---|
|  |
| 2787-96 (low pressure) |
| 2787-98 (standard pressure) |
| 2787-97 (high pressure) |

## Dimensions




1 Gauge port R1/4 for models 11-818-987, 11-818-993 and 11-818-991 only

2 Panel mounting hole > ø 12 mm wall thickness < 6 mm

## Bracket

Dimensions in mm
Projection/First angle