

# RS PRO 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).


### Materials:

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

### Maximum bleed flow at:

LP - 6.9 bar (100 psig) : 0,013 dm<sup>3</sup>/s (0.03 scfm)  
NP - 6.9 bar (100 psig) : 0,013 dm<sup>3</sup>/s (0.03 scfm)  
HP - 13.8 bar (200 psig) : 0,027 dm<sup>3</sup>/s (0.06 scfm)  
Maximum bleed rate occurs under dead-end (no flow) conditions.

## 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	5352378
	G1/4	0,02 ... 0,5 (low)	0,01	Standard	—	Standard	0,64	
	G1/4	0,07 ... 4 (standard)	0,03	Standard	—	—	0,64	5352384
	G1/4	0,07 ... 4 (standard)	0,03	Standard	—	Standard	0,64	
	G1/4	0,4 ... 10 (high)	0,05	Standard	—	—	0,64	5352390
	G1/4	0,02 ... 0,5 (low)	0,01	Standard	R1/4	—	0,64	2000271196
	G1/4	0,07 ... 4 (standard)	0,03	Standard	R1/4	—	0,64	2000304891
	G1/4	0,4 ... 10 (high)	0,05	Standard	R1/4	—	0,64	

\*1) Typical mid-range variance from set pressure with 7 bar inlet at 2 dm<sup>3</sup>/s

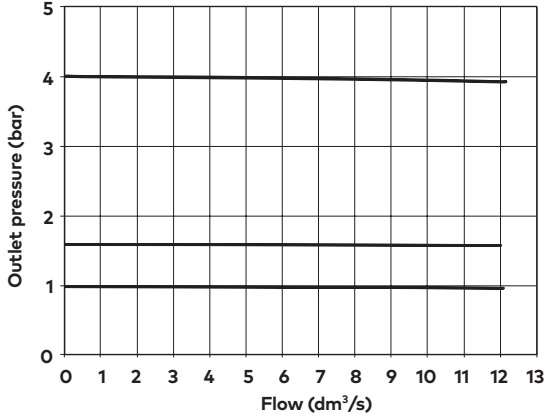
Note: 11-818 is not a constant bleed device, when being used under flow conditions no air is consumed. Air bleed is only effective under zero flow conditions as in a dead end application.



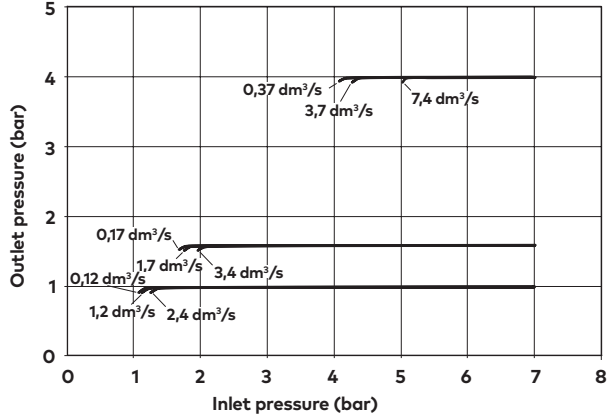
**Flow characteristics**

**Standard pressure version:**

**Inlet pressure 7 bar (100 psi); pressure range 0,07 ... 4 bar (1 ... 58 psi)**

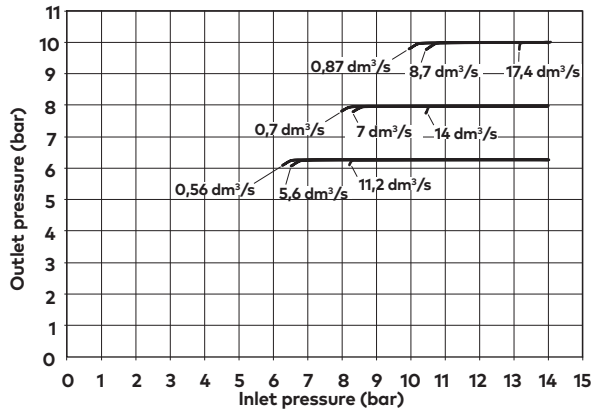
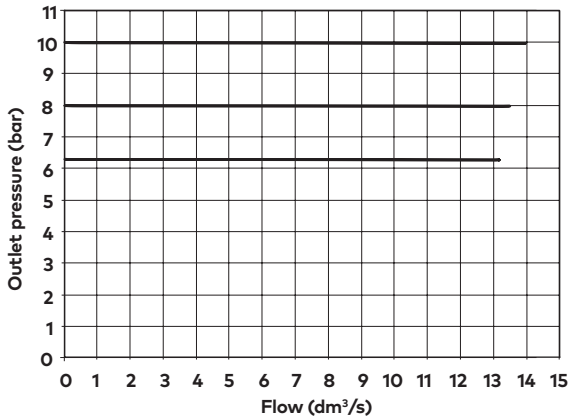


**Regulating characteristics**



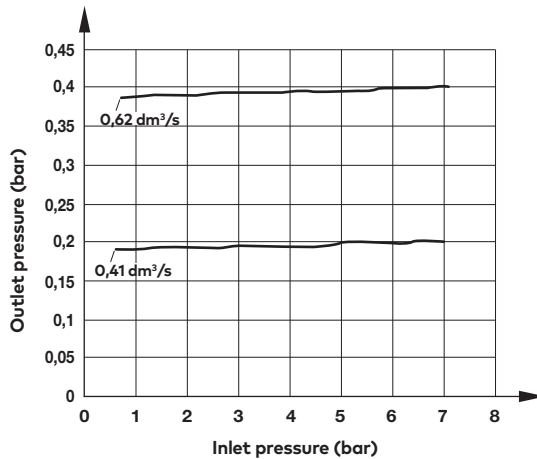
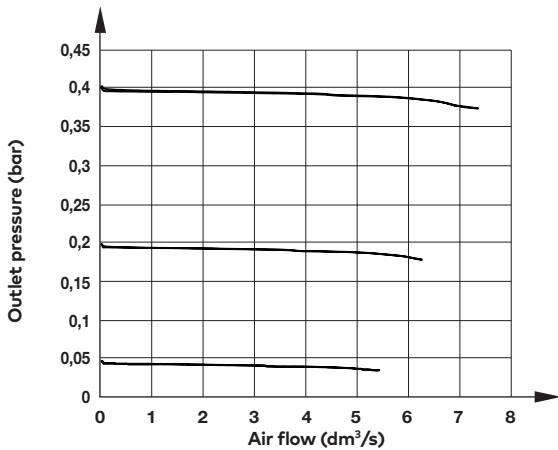
**High pressure version:**

**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)**

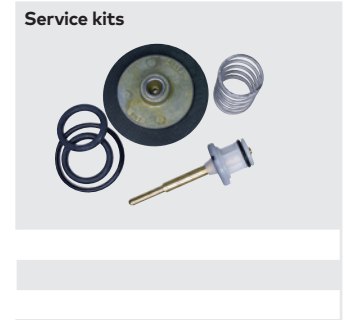


## Accessories

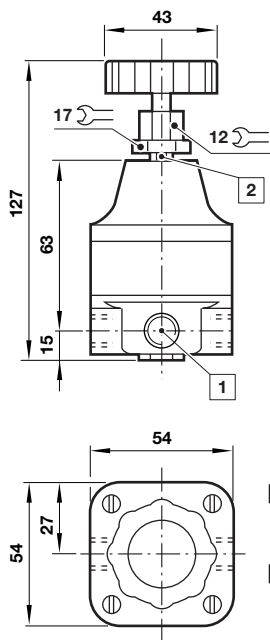
Bracket	Gauge Ø 40 mm, Port size R1/8	Concentric reducing adaptors for gauge ports*
		
	0 ... 1,6 bar: 18-015-991	R1/4-G1/8
	0 ... 4 bar: 18-015-990	
	0 ... 10 bar: 18-015-989	

\*Required to screw above mentioned gauges into the regulator.

## Service kits

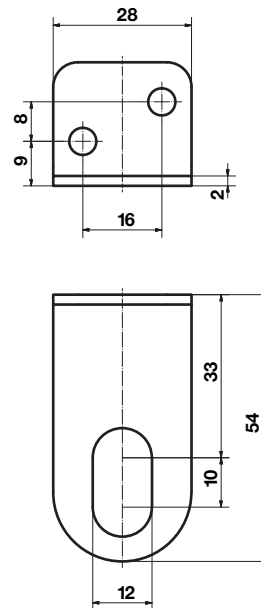


## Dimensions



- 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

