

# 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**
- > **Three versions available:**  
**Standard pressure : SP**  
**High pressure: HP**  
**Low pressure: LP**



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)  
 SP: 10 bar (145 psi)  
 HP: 14 bar (203 psi)

#### Flow:

See diagrams on page 2

#### Relieving:

Standard

#### Pressure range:

SP: 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)  
 SP - 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	Service	Pressure range (bar)	Accuracy (bar) *1)	Relieving	Gauge port	Tamper proof adjusting screw	Weight (kg)	Model
	G1/4	LP	0,02 ... 0,5 (low)	0,01	Standard	—	—	0,64	11-818-999
	G1/4	LP	0,02 ... 0,5 (low)	0,01	Standard	—	Standard	0,64	11-818-998
	G1/4	SP	0,07 ... 4 (standard)	0,03	Standard	—	—	0,64	11-818-100
	G1/4	SP	0,07 ... 4 (standard)	0,03	Standard	—	Standard	0,64	11-818-101
	G1/4	HP	0,4 ... 10 (high)	0,05	Standard	—	—	0,64	11-818-110
	G1/4	LP	0,02 ... 0,5 (low)	0,01	Standard	R1/4	—	0,64	11-818-987
	G1/4	SP	0,07 ... 4 (standard)	0,03	Standard	R1/4	—	0,64	11-818-993
	G1/4	HP	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 dm<sup>3</sup>/s

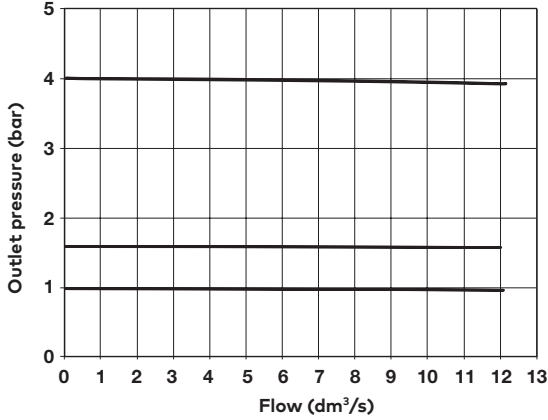
Note: 11-818 is not a constant bleed device, when being used under flow conditions no air is consumed.

Air bleed is only effective under zero flow conditions as in a dead end application.

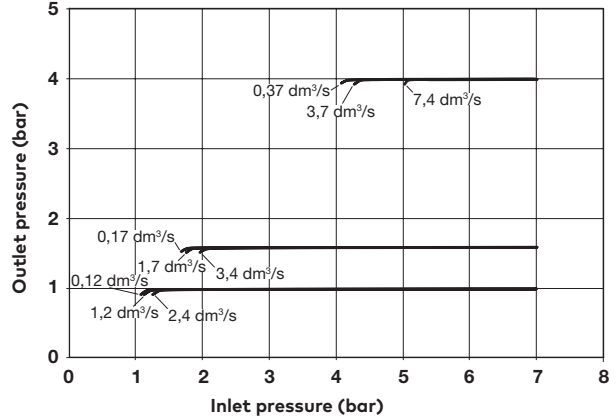
### Flow characteristics

#### Standard pressure version (SP):

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

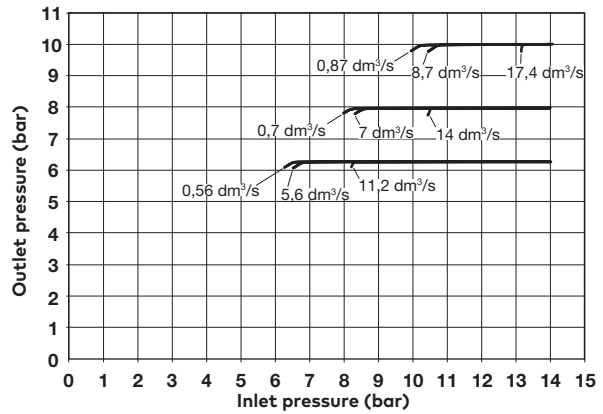
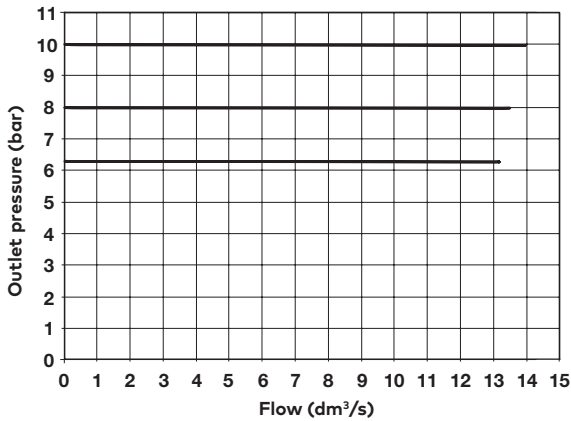


### Regulating characteristics



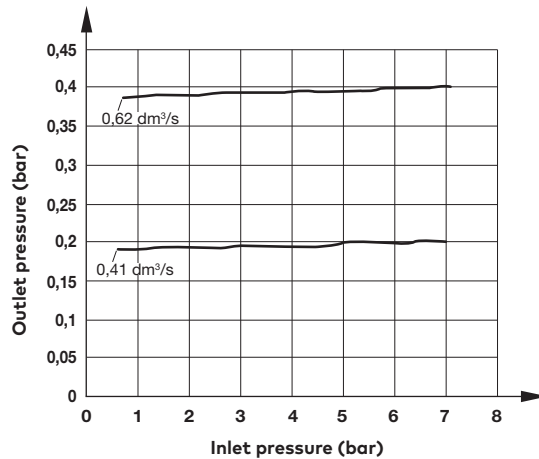
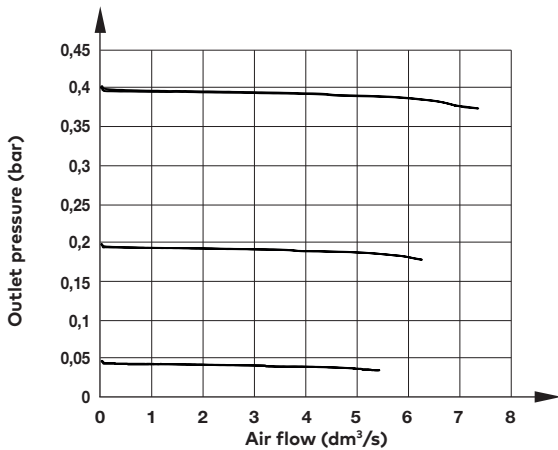
#### High pressure version (HP):

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






#### Low pressure version (LP):

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*
		
D50159014	0 ... 1,6 bar: 18-015-991 0 ... 4 bar: 18-015-990 0 ... 10 bar: 18-015-989	R1/4-G1/8 150232818

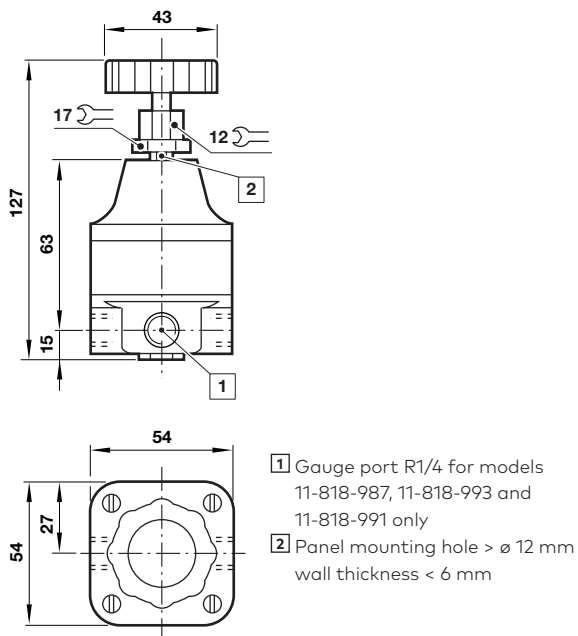
\*Required to screw above mentioned gauges into the regulator.

## Service kits

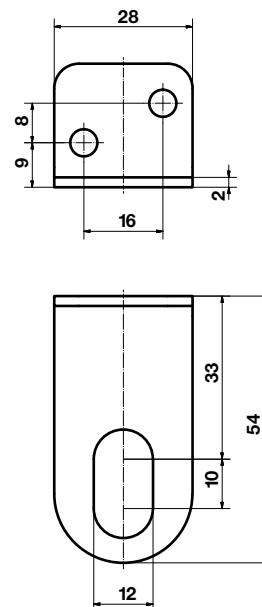
Service kits

2787-96 (low pressure)
2787-98 (standard pressure)
2787-97 (high pressure)

## Dimensions



## Bracket



Dimensions in mm  
Projection/First angle



## 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 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 Norgren Inc.

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.