

- > **Port size: G1/4, 1/4 PTF**
- > **Bonnet and body made from acetal plastic**
- > **R91W: Use with deionize water and potable water systems. All elastomers are CFR 21 FDA food and water contact compliant. Non relieving models only.**
- > **R91G: Designed for use with non-potable water and compressed air systems. Non relieving and relieving models.**
- > **Low torque, non-rising adjusting knob.**
- > **Snap action knob locks pressure setting when pushed down.**



Technical features

Medium:

R91G: Compressed air and non-potable water

R91W: Potable water, deionized water

Maximum inlet pressure:

10 bar (145 psi)

Pressure range:

0,3 ... 8,6 bar (4 ... 124 psi)

0,3 ... 3,5 bar (4 ... 50 psi)

Flow:

see below

Port sizes:

G1/4, 1/4 PTF

Gauge ports:

1/8 PTF with PTF main ports

R1/8 with ISO G main ports

Ambient/Media temperature:

Water service:

+2° ... +52°C (+35 ... 125°F)

Air service:

-20° ... +52°C (-4 ... 125°F)

When used in air service, air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Body and bonnet: Acetal

Valve seat: Acetal

Gauge port plugs: PP

R91G:

Valve: brass/NBR

Valve seat o-ring: NBR

Diaphragm: Acetal/PA inserted

NBR

R91W*:

Valve: Stainless steel/food grade

EPDM

Valve seat o-ring: food grade


EPDM

Diaphragm: Acetal/PA inserted

NBR, food grade

* NSF/ANSI 61 approved materials

Technical data, standard models

Symbol	Port size	Application	Pressure range (bar)	Flow *1) (dm³/s)	Flow *2) (lpm)	Relieving	Gauge	Weight (kg)	Model
	G1/4	Industrial air and non-potable water	0,3 ... 8,6	11	6,6	Without	Without	0,07	R91G-2GK-NLN
	G1/4	Potable water and deionized water	0,3 ... 8,6	11	6,6	Without	Without	0,07	R91W-2GK-NLN

*1) Approximate compressed air flow with 10 bar inlet pressure, 6,3 bar set pressure and a 1 bar droop from set.

*2) Approximate water flow with 7 bar inlet pressure, 4 bar set pressure and a 1 bar droop from set.

Option selector

R91★-2★K-★★★

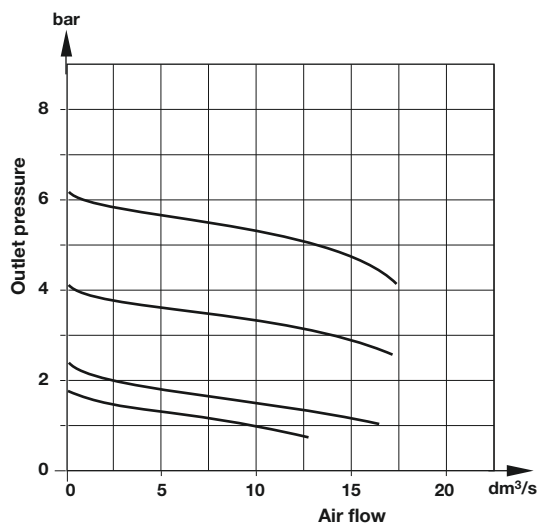
Application	Substitute	Gauge	Substitute
Industrial air, non-potable water	G	With	G *3)
Potable water, deionized water	W	Without	N
Threads	Substitute	Pressure range *4)	Substitute
PTF	A	0,3 ... 3,5 bar	E
ISO Rc taper	B	0,3 ... 8,6 bar	L
ISO G parallel	G		
Diaphragm	Substitute		
Non relieving	N		
Relieving (only R91G)	R		

*3) Gauge with NSF approved materials not available.

*4) 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.

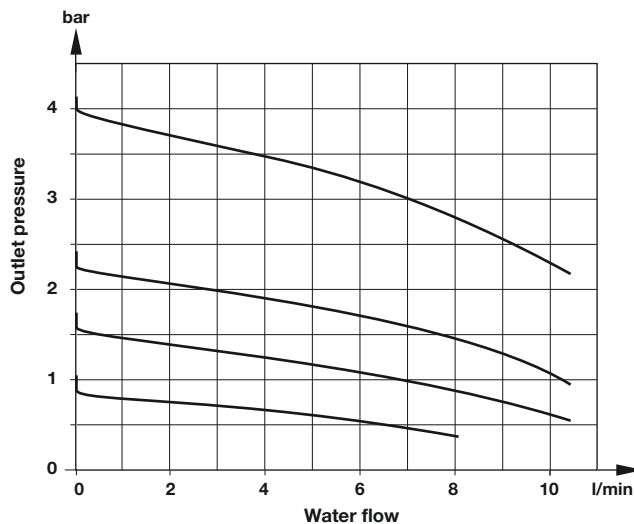
Air flow characteristics

Port size: 1/4", Spring range: 0,3 ... 8,6 bar,
Inlet pressure: 10 bar



Water flow characteristics

Port size: 1/4", Spring range: 0,3 ... 3,5 bar,
Inlet pressure: 7 bar



Accessories



Service kit



Wall mounting bracket and panel nut



1 & 4

18-025-003 (with plastic nut)
18-025-004 (with metal nut)

Panel nut



4

2962-04 (Metal)
2962-89 (Plastic)

Tamper resistant field modification



3

18-001-092

Gauge ø 40 mm *1)



6

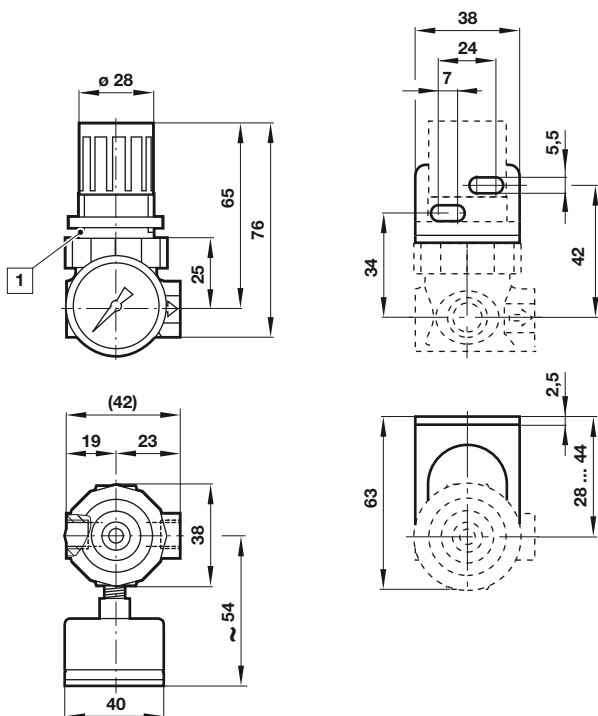
18-013-990 (0 ... 4 bar)
18-013-989 (0 ... 10 bar (145 psi))

*1) Gauge with NSF approved materials not available.

Dimensions

Bracket mounting

Dimensions in mm
 Projection/First angle



1 Panel mounting hole \varnothing 31 mm

Warning

These products are intended for use in industrial compressed air and water 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 IMI Precision Engineering, Norgren Ltd.

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.