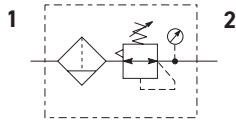


P31 Filter / Regulators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation



Port Size	Description (Relieving)	Bowl / Drain Type †	Part Number
1/4"	125 psig (8 bar)	Poly / Manual	P31EB92EGMBN5P
1/4"	125 psig (8 bar)	Poly / Pulse	P31EB92EGBBN5P
1/4"	125 psig (8 bar)	Metal / Manual	P31EB92EMMBN5P
1/4"	125 psig (8 bar)	Metal / Pulse	P31EB92EMBBN5P

* For polycarbonate bowl, see caution in Engineering Section A.

Operating information

Flow capacity*:	1/4	73 scfm (35 dm³/s, ANR)
Operating temperature†:		
Plastic bowl		14°F to 125°F (-10°C to 52°C)
Metal bowl		14°F to 150°F (-10°C to 65.5°C)
Supply pressure (max):		
Plastic bowl		150 psig (10 bar)
Metal bowl		250 psig (17 bar)
Standard filtration		5 micron
Useful retention†:		0.4 US oz. (12 cm³)
Adjusting range pressure:		
		0 to 30 psig (0 to 2 bar)
		0 to 60 psig (0 to 4 bar)
		0 to 125 psig (0 to 8 bar)
		0 to 250 psig (0 to 17 bar)
Weight:		0.42 lb (0.19 kg)

* Inlet pressure 145 psig (10 bar). Secondary pressure 100 psig (6.9 bar) and 14.5 psig (1 bar) pressure drop.

† Units with square gauges: 5°F to 150°F (-15°C to 65.5°C)

† Useful retention refers to volume below the quiet zone baffle.

Gauge supplied with every part. Gauge can be installed on the front or back of the regulator. If no gauge is installed, both seal screws must be installed.

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates)
Within ISO 8573-1: 2001 Class 6 (Particulates)

Ordering Information:

P31EB

9

2

E

G

M

B

N

5

P

Basic Series

Global Modular Mini Filter / Regulator

P31EB

Thread Type

BSPP 1

BSPT 2

NPT 9

Port Size

1/4 2

Element

5µ Element E

Bowl Type

Poly Bowl with Bowl Guard G

Metal Bowl without Sight Gauge M

Drain Type

Pulse Drain B

Manual Drain M

Adjustment

N Non-Rising Knob

Relief

B Relieving

N Non-Relieving

Mounting

P Plastic Panel Mount Nut

Adjustment Range

With Square Gauge

psig	Bar	MPa
1 = 30*	V = 2*	2 = 0.2*
3 = 60	S = 4	4 = 0.4
5 = 125	T = 8	6 = 0.8
7 [§] = 232	W [§] = 16	8 [§] = 1.6

* Regulator comes with gauge respective to the adjustment range available.

§ Not available with poly bowl with bowl guard.

Most popular.



For inventory, lead times, and kit

J30

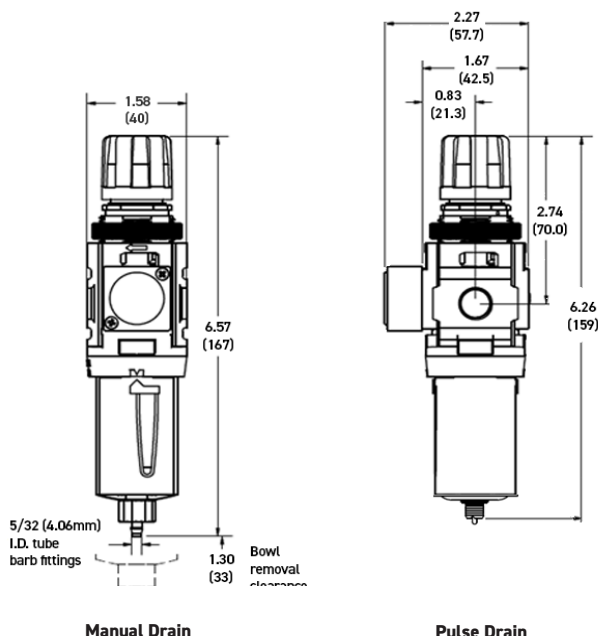
Parker Hannifin Corporation
Pneumatic Division

Material Specifications

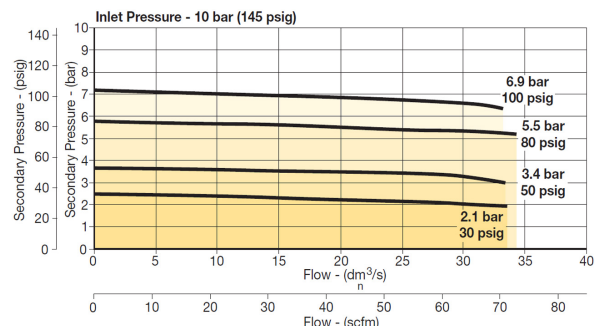
Body	Aluminum
Adjustment knob	Acetal
Bonnet	Glass-filled nylon
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Bowl guard	Nylon
Filter element	Polyethylene
Seals	Nitrile
Springs	Steel
Valve assembly	Acetal / Nitrile
Diaphragm assembly	Stainless Steel / Nitrile
Panel nut	Acetal

Repair and Service Kits

Plastic bowl / bowl guard manual drain	P31KB00BGM
Plastic bowl / bowl guard pulse drain	P31KB00BGB
Metal bowl / w/o sight gauge pulse drain	P31KB00BMB
5μ particle filter element	P31KA00ESE
Panel mount nut - aluminum	P31KA00MM
Panel mount nut - plastic	P31KA00MP
Angle bracket (attaches via panel nut)	P31KB00MR
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB


WARNING

**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed Maximum primary pressure rating.**

Flow Charts
P31EB 1/4" Filter / Regulator

Gauges (*see note below)

Square flush mount gauge	0-60 psig	P31KA060XB
	0-160 psig	P31KA160XB
	0-290 psig	P31KA290XB
	0-4 bar	P31KA04BXB
	0-11 bar	P31KA11BXB
	0-20 bar	P31KA20BXB
	0-0.4 MPa	P31KA04MXB
	0-1.1 MPa	P31KA11MXB
Square flush mount gauge	0-2.0 MPa	P31KA20MXB
	0-4 bar	K4511SCR04B
	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
Square with adapter kit	0-160 psig	K4511SCR160
	0-4 bar	P6G-PR10040
	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
1.00" Round 1/8" center back mount	0-160 psig	P6G-PR90160
	0-60 psig / 1-4 bar	K4510N18060
	0-160 psig / 0-11 bar	K4510N18160
	0-60 psig / 0-2 bar	K4515N18030
40mm Round 1/8" center back mount (not for use with common port regulators)	0-60 psig / 0-4 bar	K4515N18060
	0-160 psig / 0-11 bar	K4515N18160
	0-60 psig	P31KA060XB

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

***For P31 Regulators with date code after November 2023 (4423 Date Code), please use these part numbers when ordering a replacement gauge.**

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Filters
Coalescers
Regulators
**Filter /
Regulators**
Lubricators
**Miniature / Inline
Products**


For inventory, lead times, and kit