

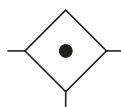
## P31 Coalescing and Adsorber Filters – Mini

- Integral 1/4" ports (NPT & BSPP)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Positive bayonet latch to ensure correct and safe fitting
- Adsorbing activated carbon element removes oil vapors and most hydrocarbons



**Note:** To optimize the life of coalescing element, it is advisable to install a P31F pre-filter with a 5 micron element upstream of the coalescing filter.

To optimize the life of an Adsorber it is advisable to install a P31 Coalescing Filter upstream of the Adsorber. Adsorber element should be replaced approximately every 1000 hours of service.



| Port Size | Description †            | Element     | Part Number        |
|-----------|--------------------------|-------------|--------------------|
| 1/4"      | Poly Bowl, Manual Drain  | 0.01 micron | <b>P31FB12CGMN</b> |
| 1/4"      | Poly Bowl, Pulse Drain   | 0.01 micron | <b>P31FB12CGBN</b> |
| 1/4"      | Metal Bowl, Manual Drain | 0.01 micron | <b>P31FB12CMMN</b> |
| 1/4"      | Metal Bowl, Pulse Drain  | 0.01 micron | <b>P31FB12CMBN</b> |

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

### Operating Information

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Supply pressure (max):    |                                                     |
| Poly bowl                 | 150 psig (10 bar)                                   |
| Metal bowl w/ DPI         | 150 psig (10 bar)                                   |
| Metal bowl w/o DPI        | 250 psig (17 bar)                                   |
| 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)                     |
| Standard filtration:      | 1.0 and 0.01 micron                                 |
| Adsorber                  | Max. oil carryover (ppm w/w)<br>0.003 @ 70°F (21°C) |
| Flow capacity*:           |                                                     |
| 1.0 micron coalescing     | 12 scfm (5.5 dm³/s, ANR)                            |
| 0.01 micron coalescing    | 7.5 scfm (3.6 dm³/s, ANR)                           |
| Activated carbon adsorber | 12.7 scfm (6 dm³/s, ANR)                            |
| Useful retention†:        | 0.4 US oz. (12 cm³)                                 |
| Weight:                   | 0.24 lb (0.11 kg)                                   |

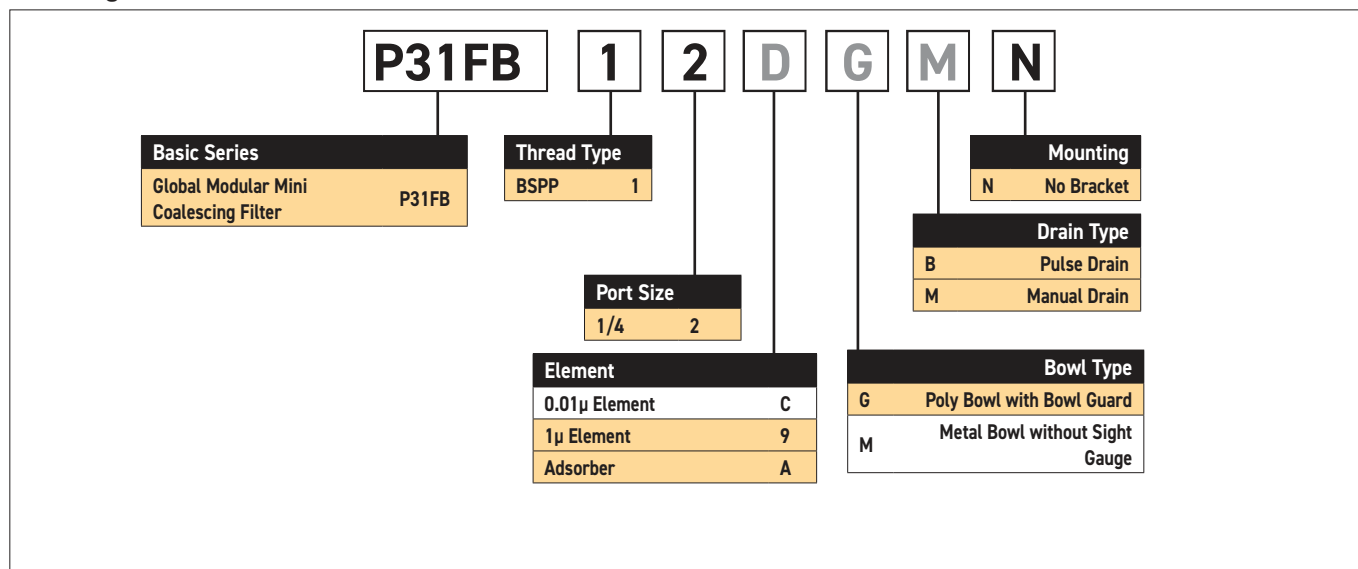
\* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 3 psig (0.2 bar), saturated element.

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

Air quality: ISO 8573-1:2010: 0.01µm closes to Class 1 for maximum particle size and concentration of solid contaminants, and closes to Class 1 on maximum oil content (ppm/wt).

Within ISO 8573-1:2010: Adsorber closes to Class 1 on maximum oil content (ppm/wt).

### Ordering Information:



PARKER PREMIER DYSTRYBUTOR :

**ARA**<sup>®</sup>  
PNEUMATIK

| arapneumatik.pl

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TEL. 71 364 72 80

katowice@arapneumatik.pl  
TEL. 607 847 647

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## Material Specifications

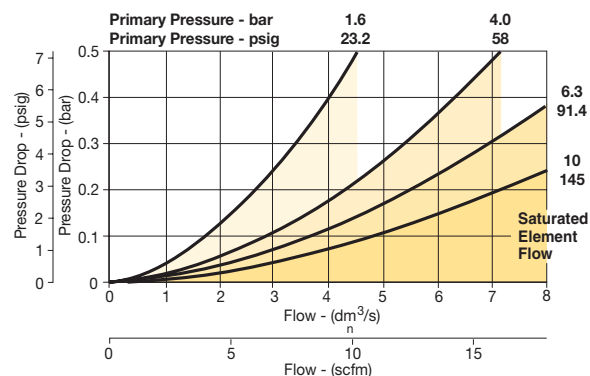
|                  |                    |
|------------------|--------------------|
| Body             | Aluminum           |
| Body cap         | ABS                |
| Plastic bowl     | Polycarbonate      |
| Metal bowl       | Aluminum           |
| Filter element   | Borosilicate cloth |
| Adsorber element | Activated carbon   |
| Seals            | Nitrile            |

## Repair and Service Kits

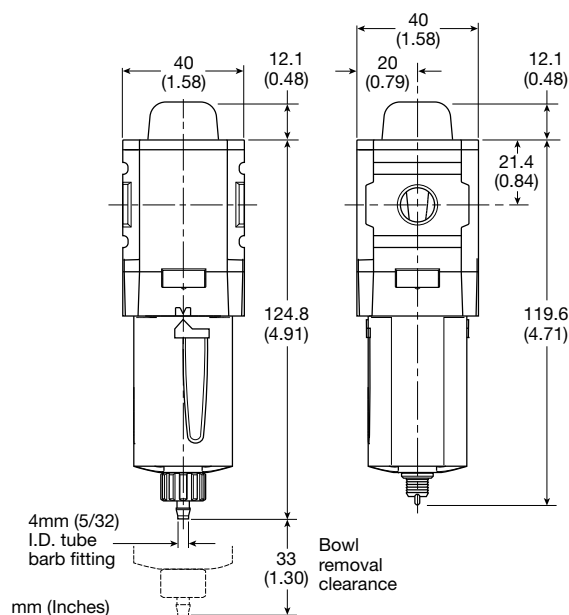
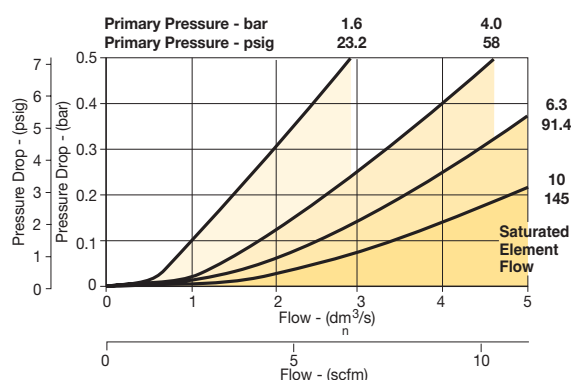
|                                               |                   |
|-----------------------------------------------|-------------------|
| Plastic bowl / bowl guard, manual drain       | <b>P31KB00BGM</b> |
| Metal bowl / w/o sight gauge, manual drain    | <b>P31KB00BMM</b> |
| Plastic bowl / bowl guard, pulse drain        | <b>P31KB00BGB</b> |
| Metal bowl / w/o sight gauge, pulse drain     | <b>P31KB00BMB</b> |
| 1 $\mu$ coalescing filter element             | <b>P31KA00ES9</b> |
| 0.01 $\mu$ coalescing filter element          | <b>P31KA00ESC</b> |
| Activated carbon adsorber filter element      | <b>P31KA00ESA</b> |
| C-bracket (fits to body)                      | <b>P31KA00MW</b>  |
| T-bracket with body connector                 | <b>P31KA00MT</b>  |
| Body connector                                | <b>P31KA00CB</b>  |
| Differential pressure indicator (replacement) | <b>P31KB00RQ</b>  |

## Flow Charts

## P31FB - 1.0 micron flow



## P31FB - 0.01 micron flow



Manual Drain

Pulse Drain

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