



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Prep-Air® II

Miniature FRL Series

Catalogue PDE2591TCUK May 2016



ENGINEERING YOUR SUCCESS.

**CAUTION:**

Polycarbonate bowls and sight domes, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls and sight domes should not be exposed to chlorinated hydro-carbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic. Metal bowl guards are recommended for all applications.

**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.

**WARNING**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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SALE CONDITIONS

The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered into by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).

Air Line Filters

 Series 14F 4 - 5

Air Line Coalescing Filters

 Series 10F 6 - 7

Air Line Regulators

 Series 14R..... 8 - 9

Air Line Filter / Regulators

 Series 14E 10 - 11

Air Line Lubricators

 Series 04L 12 - 13

Mounting Bracket Kits 14

10F Coalescing Filters

Symbol



- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- 99.97% DOP efficiency.
- High Flow: Grade 6 Element
 - 1/8" – 8 l/s[§]
 - 1/4" – 9 l/s[§]

Options:

1	0	F	1	1	E	D	-
Port size 1/8 0 1/4 1		Bowl type Twist drain 1 Automatic pulse drain 5		Element 0.01µ element E		Thread type NPT Blank BSPP 1	

Note: Bold options are standard

Port size	Description	Order code	Max bar	Height mm	Width mm	Depth mm
G1/8	Twist drain with 5µ element - Poly bowl	10F01ED1	0.7	107	43	39.6
G1/8	Auto pulse drain - 5µ element - Poly bowl	10F05ED1	0.7	107	43	39.6
G1/4	Twist drain with 5µ element - Poly bowl	10F11ED1	0.7	107	43	39.6
G1/4	Auto pulse drain - 5µ element - Poly bowl	10F15ED1	0.7	107	43	39.6
G1/8	Twist drain with 5µ element - Metal bowl	10F03E*	0.7	107	43	39.6
G1/8	Auto pulse drain - 5µ element - Metal bowl	10F07E*	0.7	107	43	39.6
G1/4	Twist drain with 5µ element - Metal bowl	10F13E*	0.7	107	43	39.6
G1/4	Auto pulse drain - 5µ element - Metal bowl	10F17E*	0.7	107	43	39.6

[§] L/s = 6.2 bar inlet and 0.3 bar pressure drop.

‡ For polycarbonate bowl see Caution on page 2.

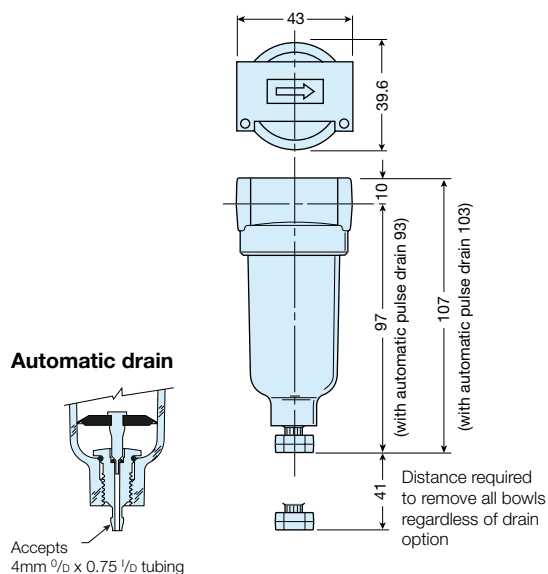
Specifications

Automatic pulse drain tube barb		4mm ^{OD} x 0.75 1/8
Bowl capacity		30 cm ³
Operation	Normal pressure drop	0.1 bar
	Maximum recommended pressure drop	0.7 bar
Operating temperature		0°C to 52°C
Max supply pressure	Polycarbonate bowl	0 to 10.3 bar
Standard filtration		0.01 micron
Port size		G1/8 / G1/4
Weight		0.180 gm

Materials of Construction

Body	Zinc		
Bowl - Transparent	Polycarbonate		
Drains	Twist drain	Body & Stem	Plastic
		Seals	Nitrile
	Automatic pulse drain	Piston & Seals	Nitrile
		Stem, Seat, Adaptor & Washers	Aluminium
Element holder	Plastic		
Filter element	Borosilicate & felt glass fibers 99.97% DOP efficiency		
Seals	Nitrile		

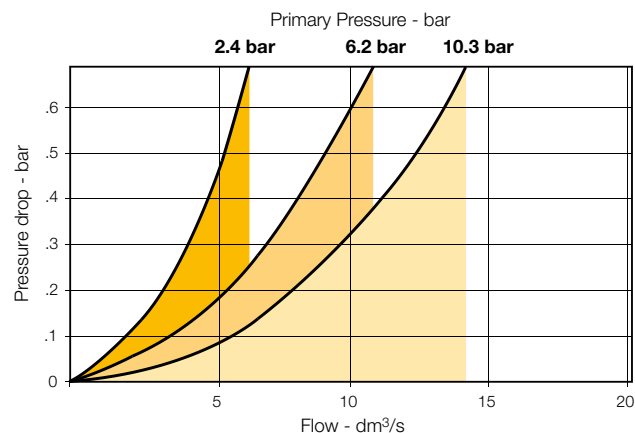
Dimensions



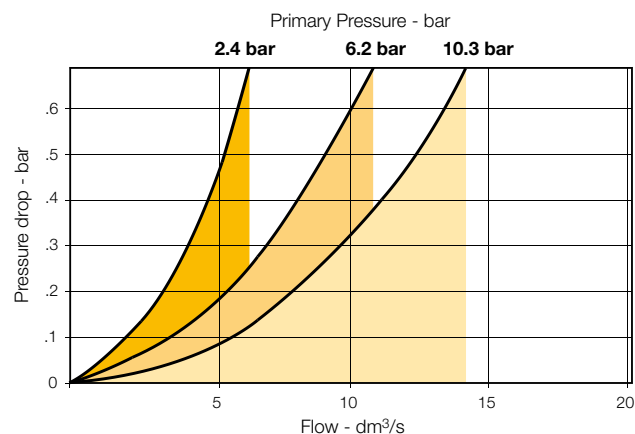
Flow Charts

Grade 6

Flow Characteristics - 1/8 Inch Ports 10F01E*



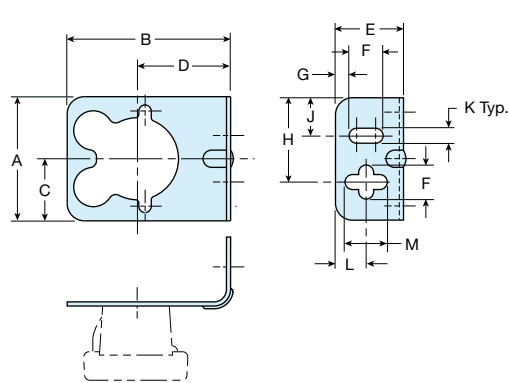
Flow Characteristics - 1/4 Inch Ports 10F11E*



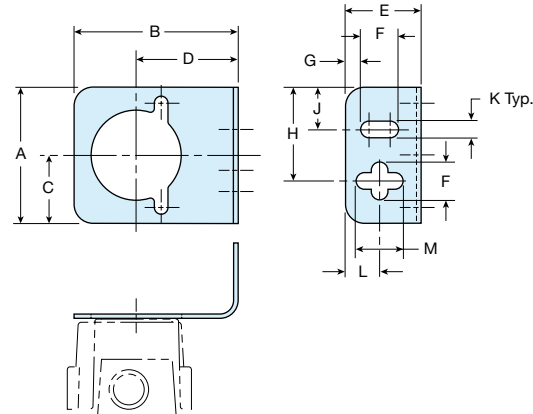
Accessories

Bowl kits, Poly bowl	Automatic pulse drain	PS408P
	Twist drain	PS404P
Filter element kits 0.01 micron		PS446P
Mounting bracket kit		PS417BP

Mounting Bracket Kits



PS417BP
(Includes Panel Mount Nut)



PS419

Dimensions (mm)

A	B	C	D	E	F	G	H	J	K	L	M	Kit
46	60	23	34	25	13	5	31	14	6	11	16	PS417BP (10F, 14F, 14R, 14E)
46	55	23	34	25	13	5	31	14	6	11	16	PS419 (04L)