

# PCY Series Filter Housings



Data Sheet MEPCYEN

## Description

Pall PCY filter housings are manufactured from reinforced polypropylene and incorporate several innovative features. Four styles of cartridge fittings are available, each welded into the head to eliminate the risk of bypass. The sealing mechanisms together with a high pressure rating allows for flexibility and security in a wide range of process applications.

## Features & Benefits

- Sturdy reinforced polypropylene designs for rugged liquid service and long-life
- Broad chemical compatibility
- Choice of filter cartridge styles and lengths
- Flow rates up to 100 L / min
- 1 in connections for high-flow rates and low pressure drop
- Welded fittings for different styles of Pall filter cartridges

## Application

For the filtration of wide variety of liquids including sea water, plating solutions, acids, bases, monomers, resins and deionized water, where corrosion resistance and economy of operation are required.



## Specifications

### Materials of Construction

Head and Bowl		Glass-reinforced polypropylene
O-rings		Fluoroelastomer, NBR, Silicone, EPDM
Connections	Inlet / Outlet	1" NPT, 1" BSPT
	Vent / Drain	¼" NPT, ¼" BSPT
Design Pressure		1 MPaG / 150 psig
Design Temperature		20 °C / 68 °F

### Maximum Operating Pressure

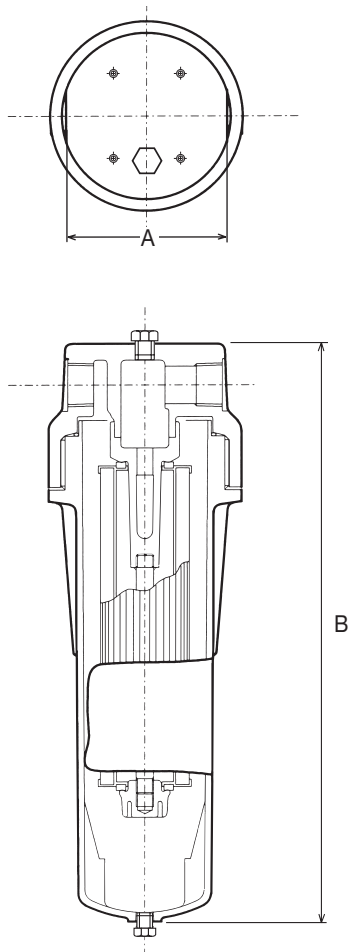
Temperature	20 °C	30 °C	40 °C	50 °C	60 °C
Seawater, Plain Water, Weak Saltwater	1.0 MPa	0.83 MPa	0.6 MPa	0.4 MPa	0.2 MPa
Oils, Organic Compounds	0.5 MPa	0.43 MPa	0.3 MPa	NA	
Plating Solution, Salts, Acids Compatible, Bases	0.33 MPa	0.3 MPa	0.2 MPa	NA	

NOTE : Polypropylene housings are not suitable for use with gases.

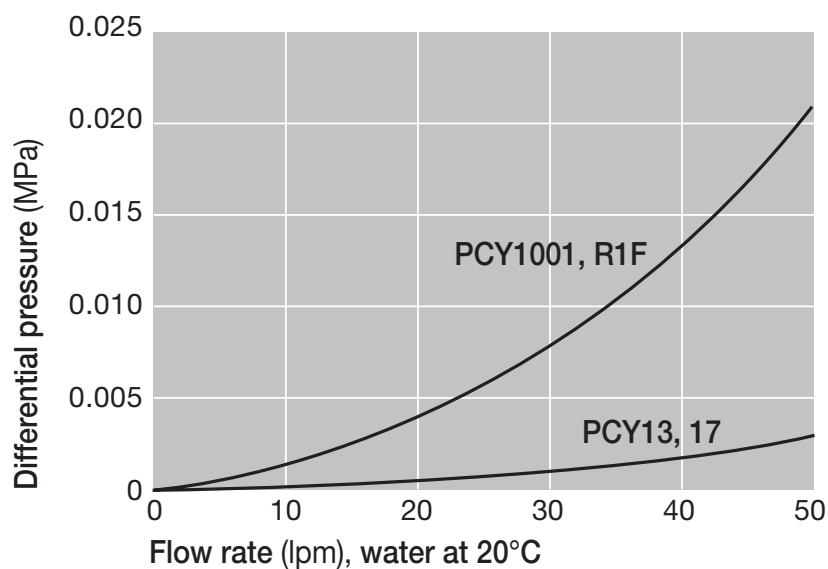
## Dimensions and weight

Type	Dry Weight	Volume	Width A	Height B	Overhead Clearance Required for Cartridge Removal
1001, 1RF, 13, 17	2.2 kg	2,250 cm <sup>3</sup>	113 mm	440 mm	300 mm
1002, 2RF, 23, 27	2.8 kg	3,500 cm <sup>3</sup>	113 mm	688 mm	580 mm

### PCY1001



### Housing Differential Pressure vs. Liquid Flow Rate



## Part Numbers / Ordering Information

PCY 1 2 3 4

**Table 1**

Code	Cartridge Style
1001	MCY1001 (10") Style
1002	MCY1002 (20") Style
1RF	R1F (10") Style
2RF	R2F (20") Style
13	AB1 (10") Code 3 Style
23	AB2 (20") Code 3 Style
17	AB1 (10") Code 7 Style
27	AB2 (20") Code 7 Style

**Table 2**

Code	Nozzle Type / Size
GN16	1" NPT
G16	1" BSPT

**Table 3**

Code	Seal Materials
H	Fluoroelastomer
H13	NBR
H4	Silicone
J	EPDM

**Table 4**

Code	Vent & Drain
No Code	1/4" NPT
Y	1/4" BSP Tr
X	1/4" BSP PI

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