

# Mini Profile

## IN DFA CAPSULE FILTERS

We design our Mini Profile capsule filters for small-volume production and scale-up evaluation. These scalable capsule filters are available in two filter types—Profile II and Profile Star filters—and complement and extend our range of depth filters. You can use them for a wide range of applications including clarification of biological products.

Profile II filters are all-polypropylene depth filter elements, with tapered pores that narrow to an inner (downstream) absolute-rated section. This thick depth structure provides high capacity for larger solids and gels as well as for fine particles.

Profile Star filters use a high-area, star-shaped pleat construction. The patented design combines the advantages of thick-depth filters with those of traditional high-area pleated filters.

Mini Profile capsule filters offer the following benefits:

- Can be used in scale-up evaluation.
- Capsule format for ease of use.
- Choice of either a high voids volume depth filter or a high area depth filter.
- Absolute particle rated for reliability.
- Low hold-up volumes.
- Broad chemical compatibilities.
- Optimized for viscous fluids.
- Excellent gel removal.
- Higher flows and throughputs.
- Easy to use self-venting design.
- Pharmaceutical-grade "P" optimized, with certificate of test, ensures batch traceability.
- Low extractables and low protein binding.
- Manufactured under clean conditions in a controlled environment.



**Fig 1.** Mini Profile capsule filter.

## Materials of construction

Medium	Polypropylene
Core, end caps	
Housing	
13 mm single hose barb adapter	Acetal

## Absolute removal ratings (liquid)

99.98% by modified OSU-F2 Beta test. Please contact us for further details.

Profile II filters	1 $\mu$ m, 0.5 $\mu$ m*
Profile Star filters	5 $\mu$ m, 3 $\mu$ m, 1.5 $\mu$ m*

\* Extrapolated

## Maximum accumulated autoclave time

Up to 125°C	3 $\times$ 30 minutes
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Warning: Mini Profile capsule filters must not be *in-situ* steam-sterilized by passing steam through under pressure. The figures given are maximum allowable figures determined by testing under controlled laboratory conditions to the length of time indicated. Actual operating conditions may affect the filter's long-term response to sterilization. Filters should be qualified for each process application.

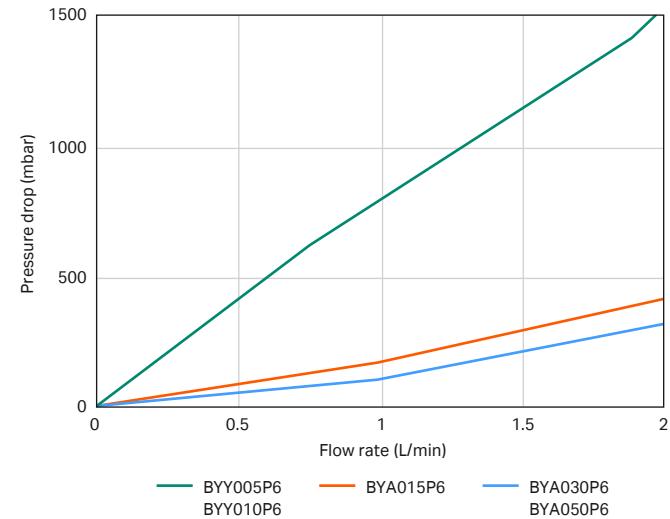
## Connections (inlet/outlet)

13 mm hose barb
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## Typical effective filtration area

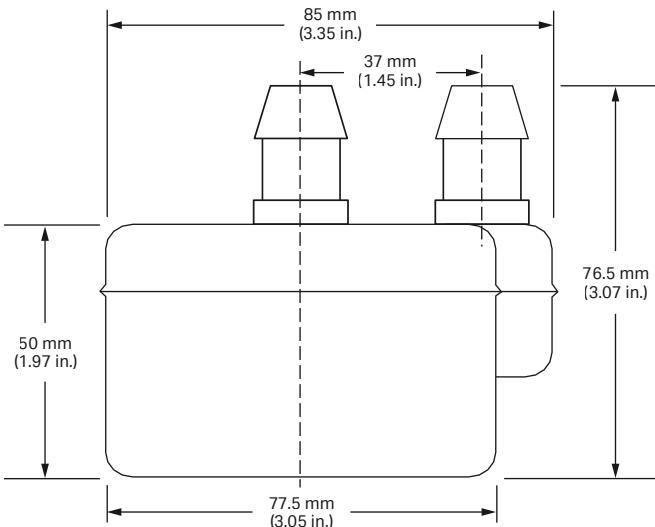
Profile II filter	46 cm <sup>2</sup>
Profile Star filter	90 cm <sup>2</sup>

## Typical liquid flow rates <sup>‡</sup>



<sup>‡</sup> For fluids at 1cP viscosity.

**Fig 2.** Typical liquid flow rate versus differential pressure in water at 20°.



**Fig 3.** Dimensional drawing of Mini Profile capsule filter.

## Operating characteristics

### Maximum operating pressure and temperatures in compatible<sup>§</sup> fluids

	Temperature	Maximum differential pressure
Profile Star filters	50°C	6.5 bard

<sup>§</sup> Fluids which do not adversely affect the filter or materials of construction.

**Specifications and availability:** The information provided is a guide to the product code structure and possible options. Product availability may be subject to change without notice. All specifications are nominal. We reviewed this literature for accuracy at the time of publication. For current information on the products and test methodologies, consult your local office or distributor.

## Ordering information <sup>†</sup>

Filter type	Removal rating ( $\mu$ m)	Product code
Profile Star filter	1.5	BYA015P6
	3.0	BYA030P6
	5.0	BYA050P6
	10.0	BYA100P6
	20.0	BYA200P6
Profile II filter	0.5	BYY005P6
	1.0	BYY010P6
	5.0	BYY050P6
	10.0	BYY100P6

<sup>†</sup> This is a guide to the product code structure only. For availability of specific options, please contact us.