

Chemical-resistant PTFE Holders for the Filtration of Aggressive Liquids



47 mm holder with 200 ml capacity

The holder does not release trace elements into the filtrate and is resistant to almost all chemicals. The Viton O-ring in the top part allows easy hand tightening, but can be replaced by a PTFE O-ring, order no. 17039). The 6 mm outlet nipple is an integral part of the base, the 10 mm inlet hose nipple can be replaced by a G3/8 connector 17051.

Specifications for the 47 mm, 200 ml PTFE filter holder

Chemical compatibility	As for PTFE and Viton
Flow rate	For water at $\Delta p = 1$ bar (100 kPa, 14.5 psi), 170 ml/min with 0.2 μm , 500 ml/min with 0.45 μm , 1.4 l/min with 0.8 μm pore size
Filtration area	12.5 cm ²
Thread for inlet connector	M 14×1.5 male thread
Materials	Top part, barrel, base part, corrugated iron, hose nipples and filter support with 40×3.5 mm PTFE O-ring. Aluminium locking rings. 39×3.5 mm Viton O-ring (top part)
Max. operating pressure	5 bar (500 kPa, 72.5 psi)
Suitable membrane filter diameter	47 mm
Sterilization	By autoclaving (max 134°C) or by dry heat (180°C)

Order number for the 47 mm, 200 ml PTFE filter holder

16579	PTFE pressure filter holder, 47 mm, with 200 ml capacity.
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Replacement parts

6985000	PTFE O-ring
6985002	Connector
6985001	Filter support
6985011	Viton O-ring



142 mm in-line PTFE holder

This filter holder is made completely of PTFE. It is clamped between the two metal plates of the holding frame. An alternative inlet connector for the 13 mm hose nipple is the G3/8 connector (order no. 17105).

Specifications for the 142 mm PTFE pressure filter holder

Chemical compatibility	As for PTFE
Flow rate	With 0.2 µm membrane filter at $\Delta p = 0.5$ bar (50 kPa, 7.25 psi), 1 l/min for water, 1.6 l/min for ethanol
Filtration area	130 cm ²
Weight	6 kg
Materials	Top part, base, back pressure screen, filter support with 131 × 4 mm O-ring, vent valve and PTFE hose nipples. Chromium plated holding frame plates. Aluminium legs
Max. operating pressure	5 bar (500 kPa, 72.5 psi)
Suitable membrane filter diameter	142 mm (prefilter, 130 mm)
Sterilization	By autoclaving (max 134°C) or by dry heat (180°C)

Order number for the 142 mm PTFE pressure filter holder

16540	In-line 142 mm PTFE pressure filter holder
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Replacement parts

6980700	Back pressure screen
6980705	PTFE O-ring
6980706	Connector
6980701	Filter support
6980712	Screw for clamp
6980703	Base part
6980713	Aluminium legs
6980704	Vent valve
6985010	Clamp