

Stainless Steel Holder with 2 Liter Capacity, for Sample Preparation and Sterile Filtration of Serum



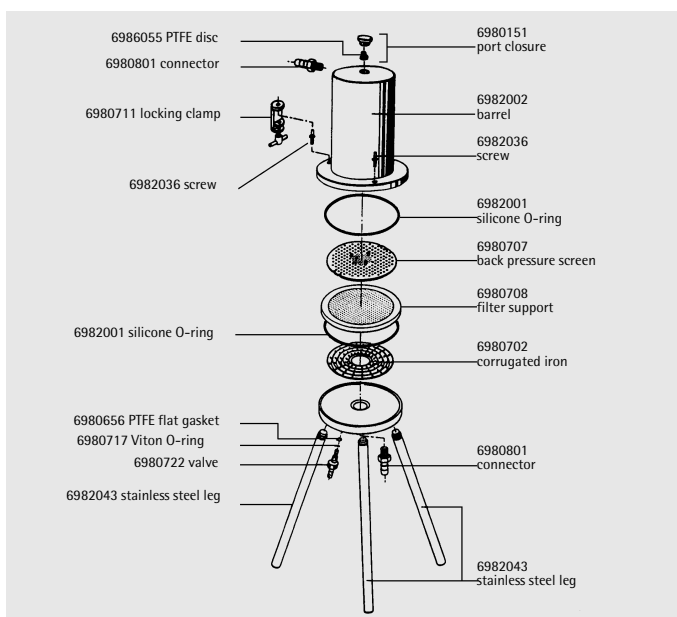
This device is perfectly suitable for the removal of insoluble components out of samples for the determination of that parts of sludge, which can be eluted with water. Due to the 2 liter capacity, the total sample volume can be filled in with a large filling port allowing simple pouring in of the liquid. The pressure filtration avoids the loss of volatile components. The filter area of 130 cm² guarantees short filtration times.

The holder is also used for the sterile filtration of difficult-to-filter liquids, such as serum. Up to three membrane filters with pore sizes getting finer in direction of the filtration are installed into the holder. The fractionated retention of suspended matters enlarges the filterable volume. The swing-out locking clamps ensure firm sealing with simple hand-tightening.



Specifications for the 142 mm, 2000 ml stainless steel pressure holder

Chemical compatibility	As for stainless steel, PTFE, silicone and Viton. If required, the silicone O-rings can be replaced by EPDM O-rings (order no. 6982071), Viton O-rings (6982070) or PTFE O-rings (6982072, reduce the max. operating pressure to 4 bar, 58 psi), and the Viton valve O-rings by EPDM O-rings (6985184) or silicone O-rings (6985183).
Flow rate	For water at $\Delta p = 1$ bar (100 kPa, 14.5 psi), 2 l/min with 0.2 μm , 4.5 l/min with 0.45 μm , 11 l/min with 0.8 μm pore size
Filtration area	130 cm ²
Weight	12 kg (26.5 lbs)
Threads for connectors	M 12×1 female threads
Materials	Top part, base, corrugated iron, locking clamps, legs, locking cap and valve body made of stainless steel 1.4401 (AISI 316). PTFE-coated stainless steel filter support and back pressure screen. Silicone O-rings (130×4 mm) in the top part and the filter support. Viton valve O-rings (3×1.5 mm). PTFE sealing (valve and cap).
Max. operating pressure	7 bar (700 kPa, 101.5 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, 2000 ml stainless steel pressure holder

16274 Stainless steel pressure filter holders for 142 mm membrane filter, with 2 liter capacity.

Recommended accessories are described on page 72. Replacement parts see diagram.