

LiquiPro™ YS

High Quality Stainless Steel Filter Housing



LiquiPro™ YS stainless steel housing is a high quality and cost effective for demanding chemical filtration applications, and for semiconductor “conductive” solvent filtration applications.

Features and Benefits

- Designed to use with LiquiPro™ F2, LiquiPro™ PA, LiquiPro™ DI, LiquiPro™ SL as well as most compatible 70mm diameter and 83mm diameter cartridge filters available in the market.
- High grades stainless steel: 316L, 316 or 304.
- Available in PM grade: interior and exterior of filter housing bowl mechanical polished to reflective mirror finish (#400 mesh) suitable for most chemical and solvent filtration applications. Also available in EP grade option: Interior and exterior of filter housing bowl are electro-polished to achieve matted non-directional finish with low Ra for the most demanding advanced semiconductor solvent and chemical filtration applications.
- Available options to use with SOE (single open end) with 2-222 O-ring adaptor filter; and DOE (double open end) filters.
- Easy to operate clamp design. No tool is required to change filter.

Typical Applications

- Semiconductor and wafer bumping industry solvent, stripper, etching, plating fluids.
- Pre-filtration for Reverse Osmosis for F&B, pharmaceutical and high purity industries.
- Water filtration.
- Filtration of low and up to medium viscosity fluids (up to 200 centipoises).

Performance Specifications

Maximum operating pressure:

10.50 bard (10 kg/cm²d, 152 psid) @25°C (77°F)
21.72 bard (22 kg/cm²d, 315 psid) @25°C (77°F)

Maximum operating temperature:

75°C (140°F)

Materials of construction:

Materials: Clamp(1):304, Head(2), Rod(3), Nut(4), Bowl(6): 316L, 316 or 304

O-ring: EPDM, FKM (Viton) or PFA Encapsulated FKM (Viton). Diameter 99.6 x 5.7mm

Finish: EP Grade: Interior and exterior electro-polish, PM grade: Interior and exterior mechanical-polish.

Inlet/Outlet: 3/4" or 1" NPTF 3/4" or 1" TC Fitting

Ordering Information

To form a part number, please chose one option from each column below.

| Product Name | Filter Code | Length | Steel | Surface Finish | Inlet/Outlet | O-Ring |
|--------------------------------------------------------------------------------------------|--------------------|----------------|-------|-------------------------------------------|-------------------------|--------------------------------|
| YS: YS Series single round housing | A: 222/Flat | 1: 10in | 316 | PM: Inside/outside 400 mesh polish | NP16: NPTF 1in | E: EPDM |
| LPYSH: High Pressure stainless housing with locking ring | M: DOE | 2: 20in | 316L | EP: Inside/outside* Electro-polish | NP12: NPTF 3/4in | V: FKM/Viton® |
| | B: Bowl | 3: 30in | 304 | AM: Inside acid outside polish | TC16: TC 1in | T: EFKM |
| <i>* Non-Standard Request, longer lead time may be required. Ask Technical Specialist.</i> | | | | | TC12: TC 3/4in | TS: Teflon and Silicone |
| | | | | | PF16: PTF 1in | |
| | | | | | PF8: PTF 1/2in | |

Flow Specifications

| Model | Housing Length | Diameter | Filter Length | Typical Flow Rate | |
|-------|----------------|----------|---------------|-------------------|--------|
| YS_-1 | 392mm | 106mm | 10in | 1.1m3/hr | 5 GPM |
| YS_-2 | 642mm | 106mm | 20in | 2.3m3/hr | 10 GPM |
| YS_-3 | 892mm | 106mm | 30in | 3.4m3/hr | 15 GPM |

| Model | Housing Length | Diameter | Filter Length | Typical Flow Rate | |
|----------|----------------|----------|---------------|-------------------|--------|
| YPSYH_-1 | 391 mm | 89 mm | 10in | 3.4m3/hr | 15 GPM |
| YPSYH_-2 | 641 mm | 89 mm | 20in | 4.5m3/hr | 20 GPM |
| YPSYH_-3 | 891 mm | 89 mm | 30in | 5.7m3/hr | 25 GPM |

Package Specifications

| Model | Dimension (cm) | Weight (kg) |
|----------|--------------------------|-------------|
| YS_-1 | 18(L) x 18(W) x 45(H) cm | 4.0 |
| YPSYH_-1 | | 5.5 |
| YS_-2 | 18(L) x 18(W) x 70(H) cm | 5.5 |
| YPSYH_-2 | | 6.5 |
| YS_-3 | 18(L)x18(W) x 94(H) cm | 7.0 |
| YPSYH_-3 | | 7.5 |

Accessories

| Part Number | Descriptions |
|---------------|----------------------------------------------|
| EZ-OR-344-T-1 | Spare O-ring, 2-344, E-FKM, 1/PK |
| EZ-OR-344-V-1 | Spare O-ring, 2-344, FKM, Viton® equiv, 1/PK |
| EZ-OR-344-E-5 | Spare O-ring, 2-344 EP, 5/PK |