

LiquiPro™ EZ

PFA Cartridge Housing



Ultra-High-Purity and Patented LiquiPro™ EZ PFA Cartridge Housing offers an excellent space-saving solution. This housing locks the cartridge into the bowl, allowing the bowl and cartridge to be installed or removed as a single unit. Thus ensuring that contamination and chemical contact is minimised.

Features and Benefits

- LiquiPro™ EZ PFA Housing utilises the highest purity grade PFA resin, high precision molded with superior total metal extractables < 250 PPT.
- The LiquiPro™ bowl and cartridge filter can be installed into a LiquiPro™ EZ head quickly and easily. And ensures perfect alignment and double O-ring engagement every time.
- Operators do not have to touch the cartridge body during cartridge changeout, which minimises exposure to chemicals for maximum safety and eliminate possibility of process contamination.
- Compatible with industry standard 2-222/Flat single-open-end filter cartridges from all major filter makers. In addition, LiquiPro™ EZ PFA housing fits both Chemlock® and LiquiPro™ EZ key filter elements.
- Tremendous tool space savings over traditional housings; saves a minimum of 20cm to 45cm of vertical space for cartridge changeout.
- Hydrostatic pressure tested 0.75MPa (110 psi) at room temperature; Cyclic pressure tested from 0 -0.5 MPa (72 psi) for 100,000 times at room temperature; 100°C high temperature leak test at 0.43 MPa (62 psi).
- 100% successful cartridge installation, the cartridge locking feature prevents the cartridge from falling out or being pushed out by back pressure. Vertical installation ensures that O-rings will not roll.

Compatible Filters

- 70 mm or 83 mm diameter with 2/222 adaptor filters.
- LiquiPro™ EZ PFA housing fits both Chemlock® and LiquiPro™ EZ key filter elements.
- LiquiPro™ CO and LiquiPro™ SH.

Performance Specifications

Materials of construction

Mounting hardware: PVDF or PFA Coated Stainless Steel

Locking ring: PVDF or PP*

Head: Molded-on fittings, bowl: Dupont PFA 440 HPJ

O-rings: E-FKM

Fluid connections:

See ordering Information

Cartridge connections:

Dual 2-222 O-rings

AT: 70mm dia,

ATX: 83mm dia

Maximum inlet pressure:

3.0 bar (43 psi) @100°C

7.5 bar (110 psi) @ 25°C

Maximum operating temperature

100°C (212°F)

Dimensions

Inlet/Outlet	Vent/Drain	B	A (10"Housing)	A (20"Housing)	A (30"Housing)
1" Flaretek	1/2" Flaretek	202 mm (8.0")	481 mm (18.9")	710 mm (28.0")	957 mm (37.7")
1" S300***	1/2" S300***	182 mm (7.2")	459 mm (18.0")	688 mm (27.0")	935 mm (36.8")
3/4" Super Pillar	1/2" Super Pillar	180 mm (7.1")	458 mm (18.0")	687 mm (27.0")	934 mm (36.8")
3/4" Flaretek	1/2" Flaretek	192.4 mm (7.6")	481.2 mm (18.9")	710 mm (28.0")	957 mm (37.7")

Compatibilities

Part Number	O-Ring	Torque (N•m) < Temp (°C)	Solvents	Acid	Base	Oxidizers	Notes
YYEYL-OR-344-T-1	E-FKM (TEV)	45 <100	C	A	C		Teflon® encapsulation provides better excellent cleanliness and compatibility; however, due to diffusion, avoid polar solvents, amines and anhydrous ammonia
YYEYL-OR-344-K4-1	Kalrez® 4079	28.5 <100	A	A	A	B	Excellent; avoid amines, steam and ethylene
YYEYL-OR-344-K6-1	Kalrez® 6375	28.5 <100	A	A	A	A	Excellent compatibility
YYEYL-OR-344-V-1	Viton®	28.5 <100	A	A	A	B	Avoid polar solvents, amines and anhydrous ammonia
YYEYL-OR-344-E-1	EPDM	28.5 <100	A	A	A	B	Good resistance to mild acids, detergents, fair to poor resistance to solvents

Accessories

Part Number	Descriptions
YYEYL-OR-344-T-1	Spare o-ring, 2-344, E-FKM, 1/PK
YYEYL-OR-344-K-1	Spare o-ring, 2-344, FFKM, 1/PK
YYEYL-OR-344-B-1	Spare o-ring, 2-344, ETP, 1/PK
YYEYL-OR-344-V-1*	Spare o-ring, 2-344, FKM, Viton® equiv, 1/PK
YYEYL-OR-344-E-5*	Spare o-ring, 2-344 EP, 5/PK
YYEYL-WR-H-1	Wrench head, 1/PK
YYEYL-UCLM-V	U Clamp Mounting, PVDF, 2/PK
YYEYL-SC-HS-20	Screw, Hex, L20mm, PVDF, 4/PK
YYEYL-SC-HS-35	Screw, Hex Socket, L35mm, PVDF, 4/PK

Ordering Information

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

Product Name	Length	Fitting	Inlet/Outlet	Vent	Drain	O-Ring	Locking Ring	Union Nuts (optional)
EZ : LiquiPro™ EZ PFA Cartridge Housing Ultra High Purity	1 : 10in	FL : Flare S300 : Pillar Super 300	16 : 1in	8 : 1/2in 4* : 1/4in Right angle vent	8 : 1/2in 4* : 1/4in	T : E-FKM	V : PVDF	N : Assembled with I/O and V/D union nuts
	2 : 20in	FL : Flare	12 : 3/4in	8 : 1/2in				
	3 : 30in	PL : Super Pillar		4* : 1/4in Straight vent	B : ETP			
	A : 5in							
	E : 9.5in							

*Non-standard option. May have longer lead time.
Other options available upon request. Ask technical specialist.

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