•	-				•	•			(	
0		0		•		•		•		0
0		•	•		•			•		•
0		•			•			•		0
0		)		•			•	•		0
0	0		0	0	-	0	0	0		0
0	۰				0	۰	۰	•		0
0	۰	۰	۰	۰				•		0
	۰	۰	۰	۰	۰	۰	۰	۰	۰	0
									_	

# Advantage™ PFA Filter Vessels

**■** Fluoropolymer

# Single Cartridge Filter Vessel Series

# Advantage<sup>™</sup> PFA Vessels for Agressive Aqueous Chemical Filtration

Parker Advantage PFA series fluoropolymer vessels are designed for the most challenging semiconductor and microelectronics chemical filtration applications. These high purity vessels accommodate all standard 2-222 single-open-end Advantage membrane cartridges. These vessels are available in 102mm, 254mm and 508mm lengths with vent, drain and sample port. Several inlet/outlet configurations are available.

# **Applications**

#### **UHPWater**

- Ozonated
- Cold
- Hot

#### **UHP Chemicals**

- Acids
- Solvents
- Photoresists
- Alkalines
- Developers
- Mixed Acids
- Strippers

### **Equipment**

- Point-Of-Use Tools
- Chemical Delivery System
- Cleaning
- Etching
- Photolithography
- Wet Benches



### Features and Benefits

- Advantage PFA vessels are available in three sizes to accommodate most common cartridge lengths.
- The PFA corrosion-resistant vessels meet industry standards for fatigue resistance, burst strength and negligible extractables.
- Nine inlet/outlet connection configurations are available for versatile installation capability.
- PFA series vessels are ideal for Parker Advantage AF and AF+ pleated membrane cartridges to provide a 100% fluoropolymer filtration system.

- Three-piece construction with PVDF locking ring for ease of filter element changeout.
- Non-rotating bowl with locking ring ensures leakproof torsion-free sealing.
- Installation brackets are available in PTFE and Teflon coated 304 stainless steel.
- Designed for clean room applications.
- Preflushed with UHP water for high purity contact surface.

**Process Filtration Division** 



# Single Cartridge Filter Vessel Series

# **Specifications**

#### **Materials of Construction:**

■ Head and bowl: PFA (440 HP) ■ Locking ring: PVDF (non-wetted)

■ Head-to-bowl standard o-ring:

2-344 Teflon

Options: Various-refer to ordering information.

#### **Dimensions:**

■ Vessels: Refer to drawing

■ Inlet/Outlet connections: NPTF: 3/4 in, 1/2 in Parflare: 1/2 in, 3/4 in,1 in Tube: 3/4 in, 1 in Butt Weld pipe: 3/4 in, 1 in

■ Vent and sample port: NPTF: 1/4 in Parflare: 1/4 in

Butt Weld Pipe: 1/4 in

Drain: NPTF: 1/4 in

Parflare: 1/4 in. 3/8 in

# - Darker 3-15/16 in (100 mm) 5-11/16 in (145 mm) 4-5/16 in (110 mm) C

#### Vessel Dimensions:

Parflare=7 7/8 in (200 mm) Butt Weld Pipe=10 in (254 mm) NPTF=7 1/16 in (179 mm) Tube=10 in (254 mm)

Parflare=1 in (25.4 mm) Butt Weld Pipe=1 in (25.4 mm) NPTF=0 in Tube=1 in (25.4 mm)

4 in Vessel=8 7/16 in (214 mm) 10 in Vessel=13 9/16 in (354 mm) 20 in Vessel=23 7/16 in (595 mm)

#### **Recommended Operating Conditions:**

Maximum operating pressure and temperature:

Parflare; NPTF; Butt Weld Pipe: 150 psig (10.3 bar) @ 77°F

(25°C) 60 psig (4.1 bar) @ 221°F (105°C)

Tube:

90 psig (6.2 bar) @ 77°F

35 psig (2.4 bar) @ 221°F (105°C)

Maximum recommended flow rate:

11.5 l/min for PFA 04 23 I/min PFA10 46 I/min for PFA20

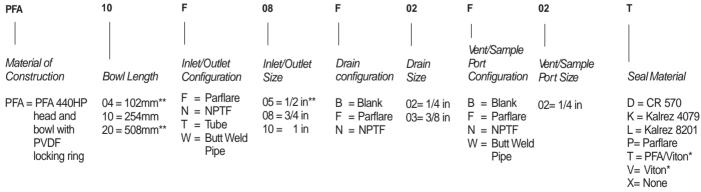
## **Accepts Industry Standard Cartridge Sizes:**

2-1/2 in (64 mm) to 3-1/4 in (83 mm) OD x 1 in (26 mm) ID x 4 in (102 mm). 10 in (254 mm) or 20 in (254 mm) long with double 2-222 O-ring.

Parker Advantage membrane cartridges:

AF: 2.5 in (64 mm) dia AF+: 3.25 in (83 mm) dia PF: 2.7 in (69 mm) dia

# Ordering Information



<sup>\*\*</sup> Consult Factory for Availability

# **Process Filtration Division**

Filter Division Europe Shaw Cross Business Park Dewsbury, West Yorkshire WF12 7RD, England Phone: +44 (0) 1924 487000

Fax: +44 (0) 1924 487001 Website: www.parker.com

