

Fulflo® Natural Polypropylene Vessels for High Purity Applications

Parker's Fulflo NP series vessels feature pure natural polypropylene construction. The NP series is an ideal economical alternative to stainless steel and fluoropolymer vessels for filtration of corrosive fluids. They are essential for applications and processes demanding high purity filtration. Availability of 10 inch and 20 inch lengths and both single and double-open-end seal designs adds additional versatility.

Markets

- Electronics
- Pharmaceutical
- Chemical Process
- Photographic
- Electroplating
- Pure Water
- Food & Beverage

Applications

- Electronic Grade Chemicals
- Process Gases
- Organic Solvents
- Photographic Solutions
- Inorganic Chemicals
- DI Water
- Potable & Edible Fluids

Features and Benefits

- Fulflo NP series vessels available in two lengths and two seal designs offer versatility.
- Several O-ring options maximize compatibility choices. Viton is standard.
- Smooth fluid contact surfaces prevent bacteria and contaminant build-up.
- U-bracket available for pipe mounting.
- Mounting bosses in head accomodate L-bracket.
- Securely retained head-to-shell O-ring ensures effective sealing by positive tangential contact and eliminates accidental misalignment.
- Positive head-to-shell "stop" prevents overtightening.

Fulflo[®] NP Filter Vessels

■ Natural Polypropylene

Single Cartridge Filter Vessel Series



- Individual packaging ensures cleanliness until use.
- NP vessels accept all standard double-open-end and single-open-end 2-222 O-ring design Fulflo filter cartridges.
- NP vessels of pure polypropylene meet FDA requirements for edible and potable liquid filtration.
- Available with pressure relief vent or threaded vent and drain.
- Service wrenches available for easy installation.
- NP vessels totally incinerable after useful life.

Process Filtration Division

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Specifications

Materials of Construction:

- Vessel: 100% natural FDA grade polypropylene
- Head-to-shell 2-240 O-Ring:
 - Standard (Industrial Grade): Viton - Optional (FDA Grade): Buna-N, EPDM, Silicone, FEP encapsulated silicone
- Pressure Relief Button O-Ring: Buna-N only

Maximum Recommended Operating **Conditions:**

- Temperature: 125°F (52°C)
- Pressure: 150 psi (10.3 bar)
- Flow Rate: 6 gpm (0.2 psid) for 10 in vessel; 12 gpm (0.9 psid) for 20 in vessel

Recommended Cartridge Dimensions:

- NP10: 2-3/8 in to 2-3/4 in O.D. x 1 in I.D. x 9-5/8 in to 9-13/16 in long
- NP20: 2-3/8 in to 2-3/4 in O.D. x 1 in I.D. x 19-7/8 in to 20-1/16 in long

Connection Dimensions:

- Inlet/Outlet: 3/4 in (19 mm) NPTF
- Vent/Drain: 1/4 in (6.4 mm) NPTF

Cartridge Seal Designs:

- "TC": Single-Open-End with 222 O-ring receptacle
- "DO": Double-Open-End with knife edge seal; also accepts 213 O-ring seal cartridge (PR code)

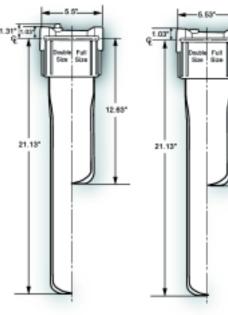
Ordering Information

NP	10 —
Vessel Type	Shell Length
Natural Polypropylene	10 = 10 in 20 = 20 in

Pressure Relief Button ("R") not * recommended for hazardous fluid applications.

*A trademark of E. I. du Pont de Nemours & Co.

Vessel Assembly Dimensions:



Housing with pressure relief button

Housing without pressure relief button

12.63

Standard Vessel Assemblies:

NP10-DO-N-V	NP20-DO-N-V
NP10-DO-R-V	NP20-DO-R-V
NP10-D0-DV-V	NP20-DO-DV-V
NP10-TC-N-V	NP20-TC-N-V
NP10-TC-R-V	NP20-TC-R-V
NP10-TC-DV-V	NP20-TC-DV-V

Compatible Semi-Conductor Chemicals (125°F max. temp.):

Housing with

1/4" NPT vent and drain

23.38

12.88

Acetic Acid 50%	
Acetone 99.5%	
Ammonium Fluoride 40%	
Ammonium Hydroxide 10	%
Hydrochloric Acid 37%	
Hydrofluoric Acid 49%, 52	2%
Nitric Acid 10%	
Phosphoric Acid 85%	
Potassium Hydroxide 45	%
Sodium Hydroxide 50%	
Tetrachloroethylene 99.0%	6

Cartridge Seal Design DO = Double-Open-End (gasket seal) TC = Single-Open-End (222 O-ring

seal)

тс

DV

Vent/Drain Options

- D = 1/4 in Female NPT
- Drain (Plugged) N = No Vent, Drain or Pressure Relief
- Button
- R = Pressure Relief Button*
- V = 1/4 in Female NPT Vent (Plugged)

Head-to-Shell 240 O-Ring

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- E = EPDM (FDA Grade)
- N = Buna-N (FDA Grade)
- S = Silicone (FDA Grade) V = Viton** (Industrial Grade)
- L = FEP/silicone (FDA grade)

Process Filtration Division

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