



PolyFlo™ LV Pure Polypropylene Large Diameter High-Purity

Behringer PolyFlo™ LV Series Vessels are an excellent choice and an economical solution to low flow, high-purity filtration requirements. They are constructed of 100% virgin polypropylene material in a manufacturing process that uses polished molds to create a smooth product surface which prevents bacteria and particulate build-up. No colors, binders, lubricants, or surfactants are used. All materials of construction are ANSI/NSF Standard 42 registered materials, and meet FDA standards for acceptable materials for potable water use. The vessels accept industry standard 4 ½” diameter filter cartridges in 10 and 20 inch nominal lengths. Additional accessories such as mounting brackets, differential pressure gauges, and pressure relief valves are available to ease installation and operation.

Applications

- DI Water
- Pharmaceutical
- Lab Instrumentation
- Electronic Solutions
- Aggressive Fluids
- Potable Water
- Semiconductor
- RO Pre-filtration
- Cosmetic Solvents
- Chemical Processing

Features and Benefits

- 100% virgin polypropylene construction with no color, binders, lubricants, or surfactants.
- Fully tested to industry standards of the Water Quality Association for burst pressure, water tightness, and fatigue resistance
- 2-3 times the flow rate of standard size PolyFlo™ and competitor vessels
- Standard with Both 1 ½” and 1” NPT Female connections in the same head, or 1-1/2” Sanitary Tri-Clamp style.
- Bowl-To-Head seal by securely retained, non-lubricated Silicone O-ring: The unique O-ring sealing filter ensures a reliable seal every time by positive tangential contact, without the possibility of dislodging the seal. This ensures a leak-free seal every time.
- Bowl-To-Head thread stop: The unique thread design incorporates a “stop thread” that prevents over-tightening commonly associated with tapered-end threads.
- Mounting threads in head, with optional mounting brackets for pipe and wall mounting
- Accepts industry standard cartridges with 4 ½” diameter in two standard lengths: 9-3/4”, and 20”
- Available with or without pressure relief vent button.
- Installation wrenches are available to facilitate faster element change-outs
- Accepts Behringer’s string wound, melt-blown, pleated polypropylene, resin bonded, and activated carbon cartridges
- Additional accessories include ¼” NPT drain and differential pressure gauge.

Specifications

Recommended Operating Conditions

Type:	PolyFlo™ inline T-Type
Connections:	1" and 1 1/2" NPT or 1-1/2" Sanitary Tri-Clamp Style ¹
Max Operating Pressure:	125 psi (8.5 bar)*
Max Operating Temperature:	125° F (52° C)
Recommended Flow Rate:	
10"	25 gpm (94 lpm)
20"	45 gpm (170 lpm)

Materials of Construction

Head:	100% virgin polypropylene
Bowl:	100% virgin polypropylene
O-Ring Seal:	Silicone (standard) Buna, Viton, EPR, Encapsulated Teflon (on request)

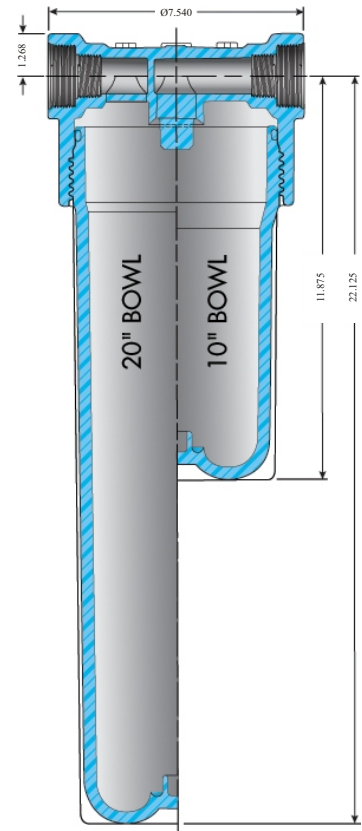
Cartridge Specifications

Cartridge OD:	2.50 in. (63.5mm)
Cartridge ID:	1.06 in. (27mm)
Cartridge Ends:	Double open end or 222 O-ring
Cartridge Lengths:	10 in.: 9.75 in. (248 mm) 20 in.: 20.0 in. (508 mm)

* Max operating pressure of 150 psi is at ambient operating temperatures of 70° F (21° C)

Please note: maximum operating temperature is for the housing only, and is not indicative of the maximum operating pressure of the filter cartridge.

1. Tri Clamp ends are thermally but-welded to housing connection ports. For sanitary application, but welds must be turned down. Model code specification "HU" must be added. See model code.



Filter Vessel Accessories

Wall Bracket	PFLD-WB
Wall Bracket w/ gauge hole	PFLD-GB
Wrench for 10 in. Shell	PFLDW-1
Wrench for 20 in. Shell	PFLDW-2

Ordering Information

Table 1 Table 2 Table 3 Table 4 Table 5

PFLV

Length	
10	9.75 in. (248 mm)
20	20.0 in. (508 mm)

Code	
Omit	Standard Use
HU	Hygienic Use

Seals	
S	Silicone
B	Buna-N
V	Viton
E	EPR
T	Teflon (Encapsulated)

Ports	
Omit	NPT
TC8	1-1/2" Tri-Clamp style

Options	
omit	Without relief valve button
V	With relief valve button
DP	Diff. Pressure Gauge (With no relief valve)
X	1/4" NPT Drain (Plugged)

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