

PolyPro[®] XL Disposable Filter Capsules and Mini Cartridge Filters



PolyPro[®] XL capsule and mini cartridge filters are designed for critical, small volume filter applications in the pharmaceutical, bioprocess, fine chemical, and microelectronics markets. They contain pleated, graded density, absolute-rated, polypropylene filter media providing excellent retention of particles at fast flow rates. The all-polypropylene construction offers superior

chemical resistance and durability in demanding process applications.

Constructed with the innovative Advanced Pleat Technology[™] (APT) design, combining high filter surface area with graded-density filter media structure, PolyPro XL capsule and mini cartridge filters flow faster and last longer than competitive filters.

CUNO PolyPro XL mini cartridges can be installed in existing Pall Sealkleen[®] ** housings or in the CUNO Mini Cartridge housing (literature reference LITZRMCH). PolyPro XL mini cartridges provide significant flow advantages compared to competitive offerings resulting in greater batch capacity and reduced filter change-outs.

Specifications

Materials of Construction	
Filter Media and Support Layers	Polypropylene
Capsule Body, Mini Cartridge Cage, Core, and End Caps	Polypropylene
Capsule Vent/Drain O-rings	See Ordering Guide

Operating Conditions			
Maximum Capsule Operating Pressure	75 psig		
Maximum Capsule Operating Pressure:	Forward:		
	Capsules & Mini Cts.:	60 psid (4.1 bar) @ 104°F (40°C)	
Maximum Capsule Operating Pressure:	Mini Cartridges:	35 psid (2.4 bar) @ 176°F (80°C)	
	Reverse:	35 psid (2.4 bar) @ 75°F (25°C)	
Recommended Change-out Differential Pressure	35 psid (2.4 bar)		
Maximum Operating Temperature	Mini Cartridges: 175°F (80°C)		
	Capsules: 104°F (40°C) DO NOT In Situ Steam		
Surface Area by Grade (ft ²)	2.5" length	5" length	10" length*
	020 (0.2 μm)	1.4	2.9
060 (0.6 μm)	1.5	3.2	9.2
120 (1.2 μm)	1.5	3.2	9.2
250 (2.5 μm)	1.5	3.2	9.2
500 (5.0 μm)	1.4	3.0	8.7
10C (10 μm)	0.9	1.9	6.1
For 20" & 30" Capsules, Multiply by 2 and 3 respectively.			

Benefits

- Advanced Pleat Technology[™] (APT) construction for fast flow rates with high contaminant retention
- Absolute retention ratings provide consistent performance
- Sanitary capsule vent and drain valves ease use
- Steam sterilizable mini cartridges
- Manufactured within an ISO 9001 registered Quality Management System
- Meets USP Class VI Biological Tests for Plastics
- Constructed with FDA 21 CFR listed materials
- Non-pyrogenic per USP Bacterial Endotoxins Test (<0.25 EU/ml)
- Conductivity and Total Organic Carbon (TOC) - Meets requirements of USP Purified Water after flushing.
- Meets USP Particulates in Injectables limits, non-fiber releasing filter per 21 CFR
- Individual Certificate of Quality
- Regulatory Support File (RSF) available

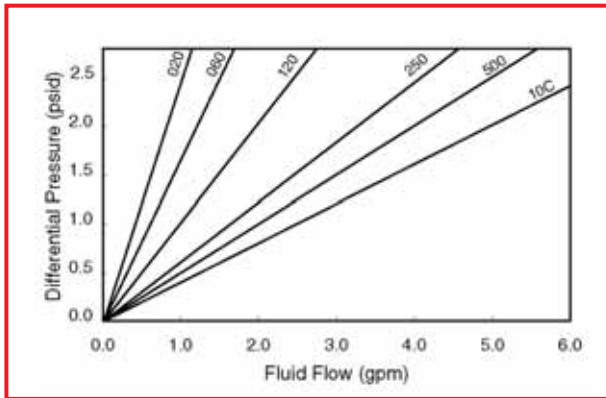
** Sealkleen[®] is a registered trademark of Pall Corporation

Flow Rates

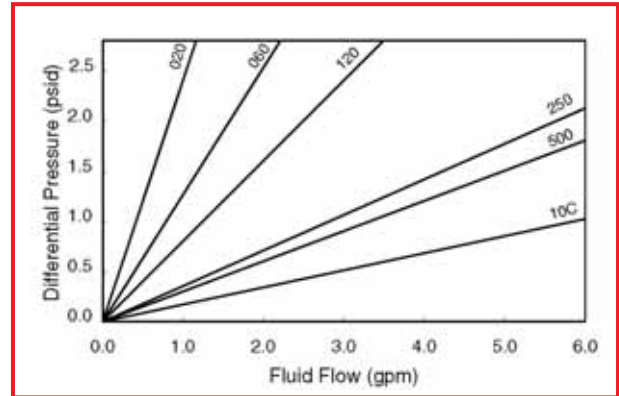
The following are typical water flow rates for PolyPro XL capsules with 1 1/2" sanitary flange connections or in the mini cartridge configuration. Other end connections will effect maximum flow rates (see table).

Maximum Recommended Capsule Flow by End Connection		
End Connection	Maximum Recommended Flow Rate (gpm)	Housing Pressure* Loss (psid)
1 1/2" Sanitary Flange	6.00	1.0
3/8" FNPT	6.00	1.0
1/2" Hose Barb	3.00	1.5
1/4" MNPT	1.50	2.4
Tapered Hose Barb	0.50	2.2

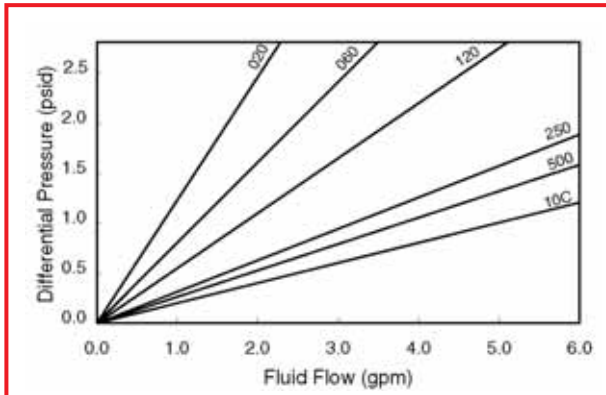
* At maximum recommended Flow Rate



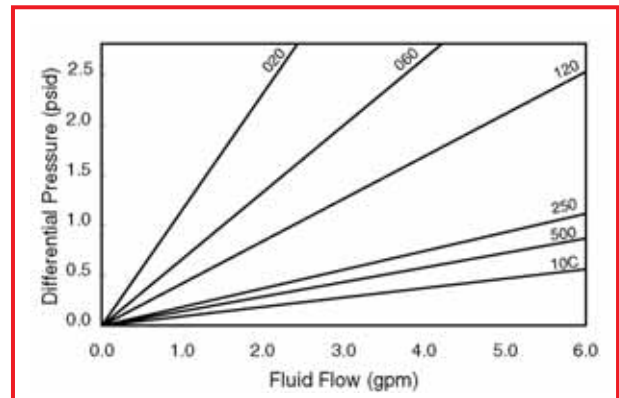
2.5 Inch Disposable Capsule With Sanitary Flange Flow @20°C



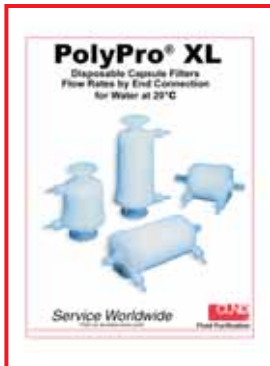
2.5 Inch Mini Cartridge Flow @20°C



5 Inch Disposable Capsule With Sanitary Flange Flow @20°C

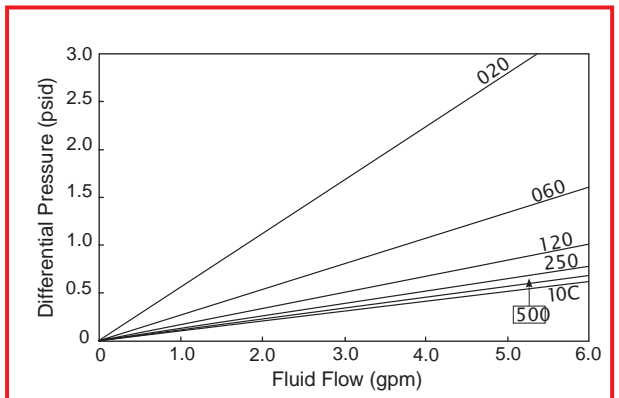


5 Inch Mini Cartridge Flow @20°C

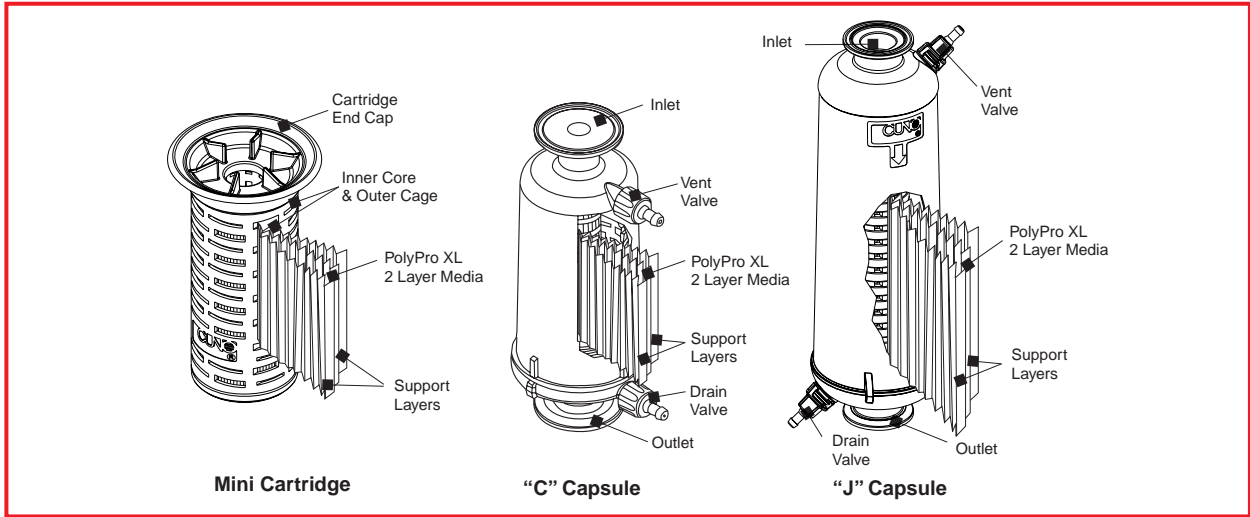


Consult a CUNO representative for flow rates using optional end connections, refer to

LITDPXLCFL, or visit www.cuno.com.



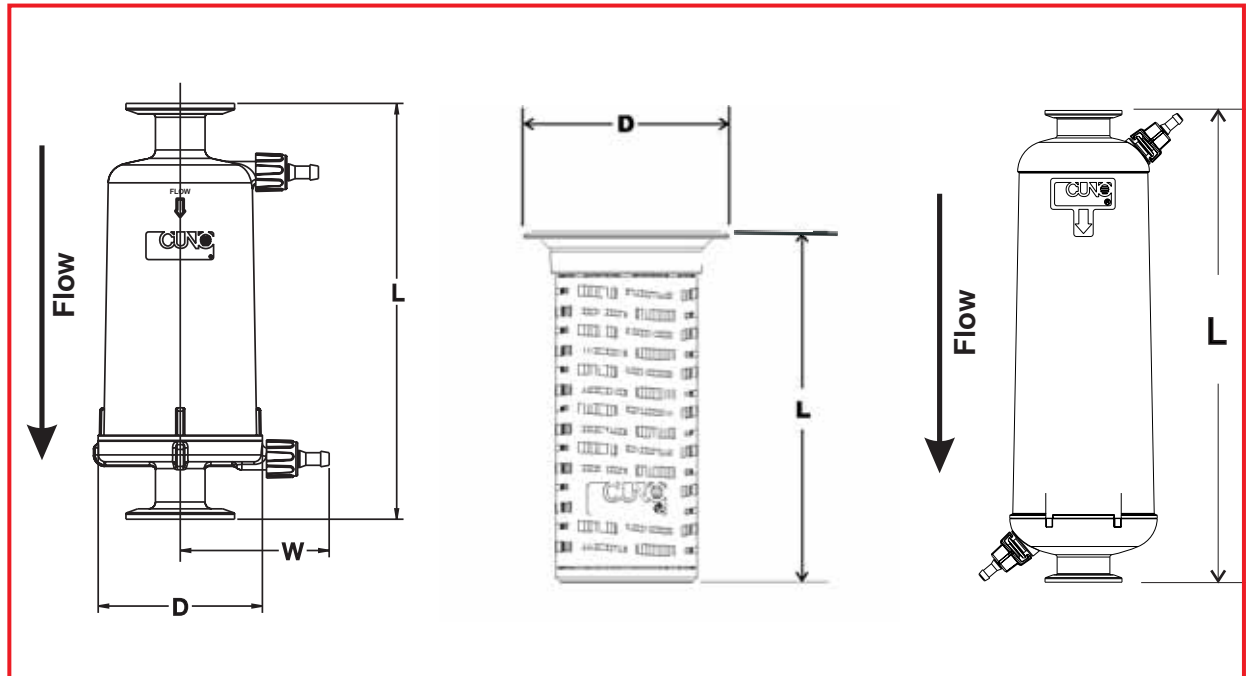
10 Inch Capsule Flow @20°C



Nominal "C" Capsule Dimensions						
Dimensions (See Figure Below)	Nominal Length (See Ordering Guide)	Length (inches) with End Connections (See Ordering Guide)				
		A	B	C	D	E
Length (L)	01	5	5 1/2	5	5	5 1/4
	02	7 1/2	8	7 1/2	7 1/2	7 3/4
Diameter (D)	01	3				
	02					
Width to Vent (W)	01	2 3/4				
	02					

Nominal Mini Cartridge Dimensions		
Dimensions (See Figure Below)	2.5" Mini Cartridge	5" Mini Cartridge
Length (L)	3 1/8"	5 1/2"
Diameter (D)	3 1/4"	

Nominal "J" Cartridge Dimensions			
Dimensions (See Figure Below)	10" J Capsule	20" J Capsule	30" J Capsule
Length (L)	12 1/8"	22 1/8"	32 1/8"
Diameter (D)	4"		



PolyPro XL Filter Capsule and Mini Cartridge Ordering Guide

Filter Type	Grade Code	Rating (µm)	Configuration	Nominal Length	End Connection	Capsule Vent O-Ring Option	Packaging Option
PPG	020	0.2	C = Capsule	01 = 2 ½"	A = 1 ½" Sanitary Flange B = ½" (14mm) Hose Barb C = ¼" MNPT D = ⅜" FNPT E = ¼" - 5/16" - 3/8" Tapered Hose Barb	A = Silicone B = Fluorocarbon C = EPR	01 = 1 Pack
	060	0.6		02 = 5"			
	120	1.2					
	250	2.5	J = Capsule	01 = 10"	A = Sanitary Fitting	A = Silicone C = EPR	
	500	5.0		02 = 20"			
	10C	10		30 = 30"			
			M = Mini Ctg.	01 = 2 ½"	A = Standard	N = None	06 = 6 Pack
				02 = 5"			

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