

PolyPro[®] XL

Disposable Filter Capsules and Mini Cartridge Filters



Fluid Purification



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.

Benefits

- MaxMedia[™] 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 in ISO 9001 certified facility
- 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

Constructed with the innovative MaxMedia[™] technology 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 & Support Layers	Polypropylene		
Capsule Body	Polypropylene		
Mini Ctg Cage, Core & End Caps	Polypropylene		
Capsule Vent/Drain O-rings	See ordering guide		
Operating Conditions			
Maximum Capsule Operating Pressure	75 psig		
Maximum Differential Pressure	Forward:		
	Capsules & Mini Ctgs.	60 psid (4.1 bar) @ 104°F (40°C)	
	Mini Ctgs.	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 INSITU STEAM		
Surface Area by Grade	2.5" length(ft ²)	5" length (ft ²)	
	020 (0.2 μm)	1.4	2.9
	060 (0.6 μm)	1.5	3.2
	120 (1.2 μm)	1.5	3.2
	250 (2.5 μm)	1.5	3.2
	500 (5.0 μm)	1.4	3.0
	10C (10 μm)	0.9	1.9

* U.S. And Foreign Patents Pending

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

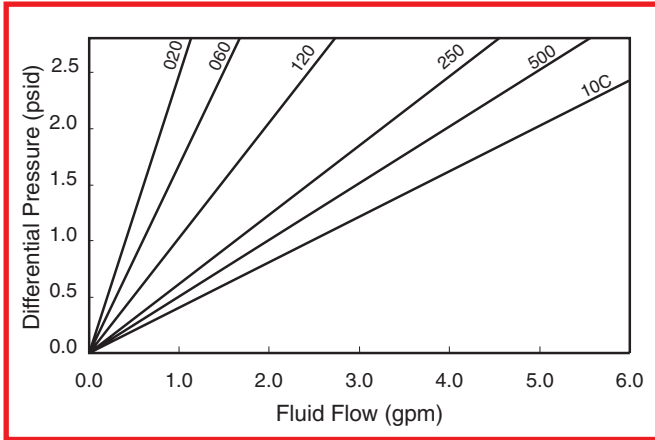
Flow Rates

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).

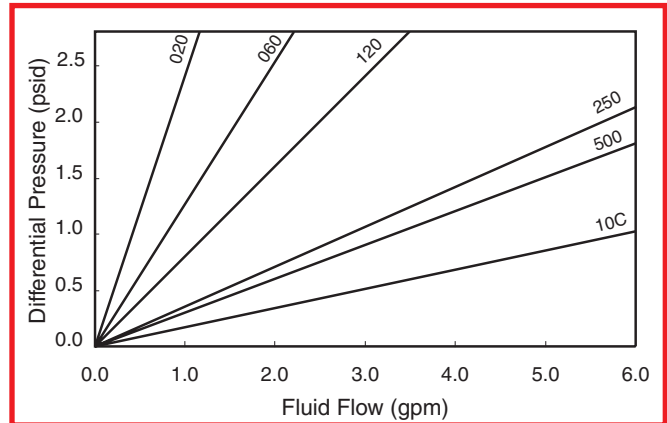
Maximum Recommended Capsule Flow by End Connection

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

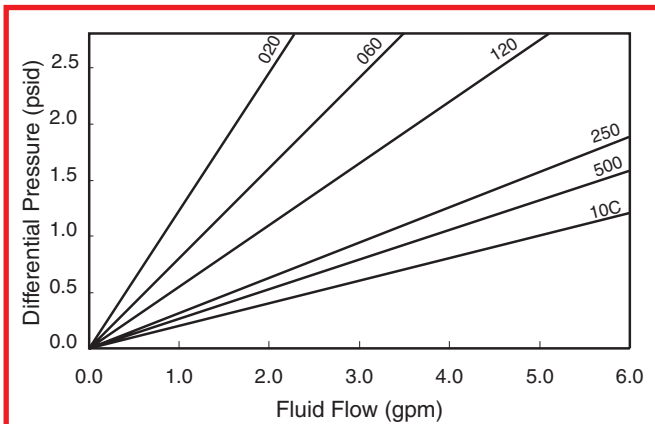
* At maximum recommended Flow Rate



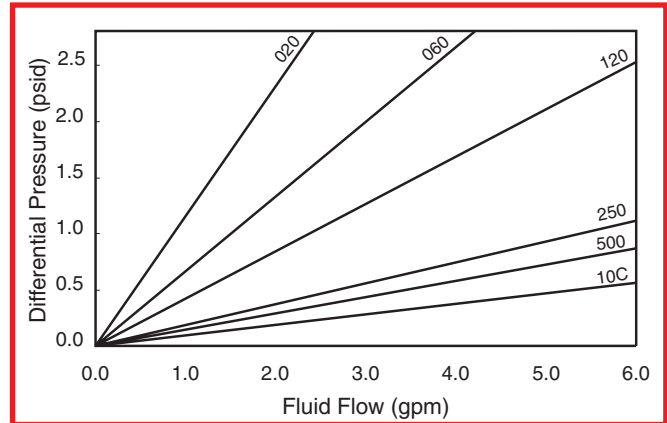
2.5 Inch Disposable Capsule With Sanitary Flange Flow @20°C



2.5 Inch Mini Cartridge Flow @20°C

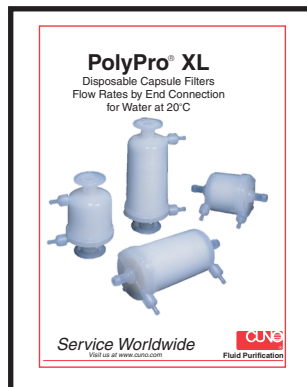


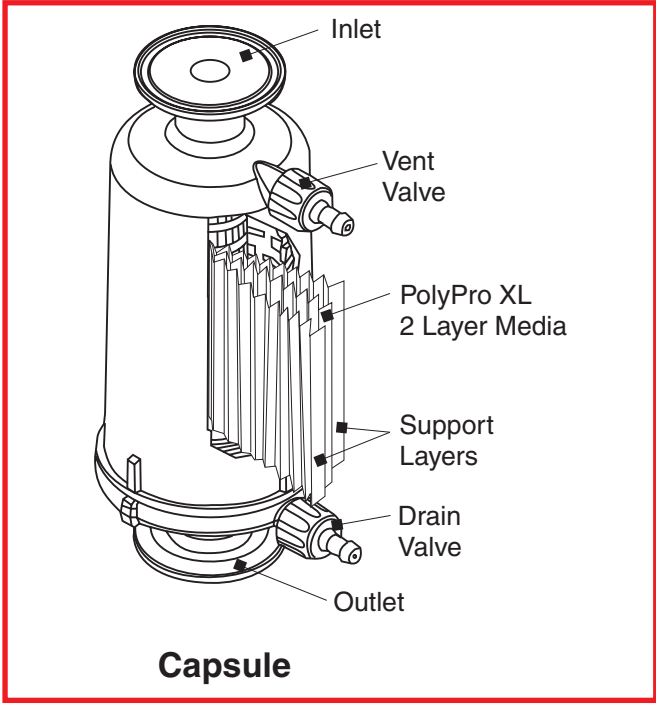
5 Inch Disposable Capsule With Sanitary Flange Flow @20°C



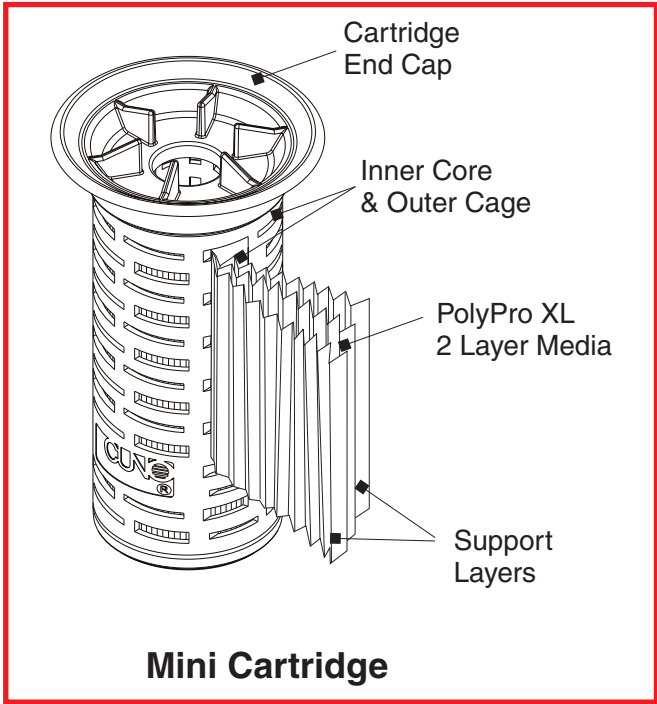
5 Inch Mini Cartridge Flow @20°C

Consult a CUNO representative for flow rates using optional end connections, refer to LITDPXLCFL, or visit www.cuno.com.





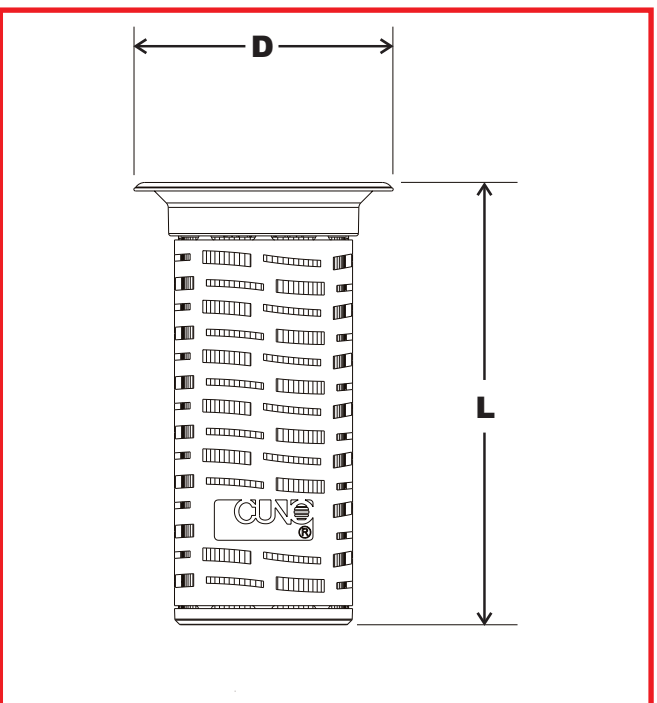
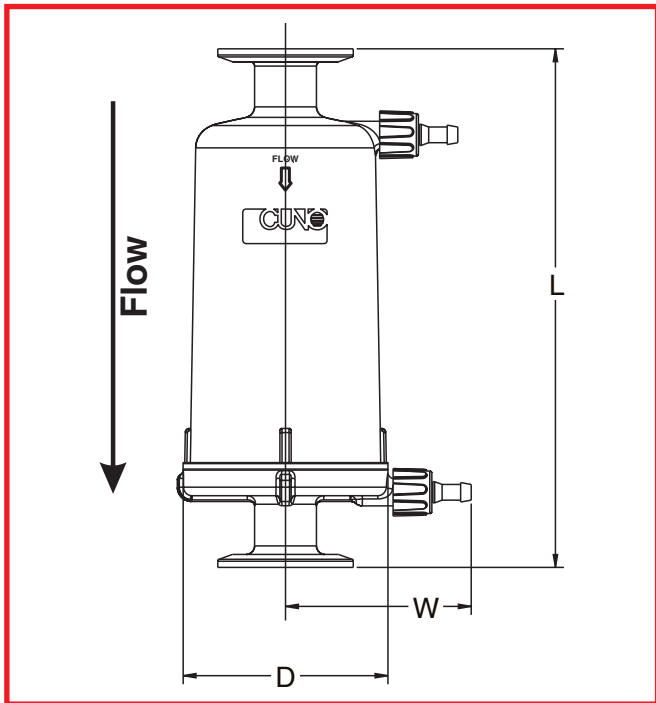
Capsule



Mini Cartridge

Nominal 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 1/4				
	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	



PolyPro XL Filter Capsule and Mini Cartridge Ordering Guide

Cartridge Type	Grade		Configuration	Nominal Length	End Connection	Capsule Vent O-ring Option	Packaging Option
	Code	Rating (µm)					
PPG	020	0.2	C = Capsule	01 = 2 1/2"	A = 1 1/2" sanitary flange B = 1/2" (14mm) hose barb C = 1/4" MNPT D = 3/8" FNPT E = 1/4" - 5/16" - 3/8" tapered hose barb	A = Silicone B = Fluorocarbon C = EPR	01 = single pack
	060	0.6		02 = 5"			03 = 3 pack
	120	1.2					20 = 20 pack
	250	2.5					
	500	5.0					
	10C	10					
			M = Mini Ctg	01 = 2 1/2"	A = Standard	N = None	06 = 6 pack
				02 = 5"			

WARRANTY

Seller warrants its equipment against defects in workmanship and material for a period of 12 months from date of shipment from the factory under normal use and service and otherwise when such equipment is used in accordance with instructions furnished by Seller and for purposes disclosed in writing at the time of purchase, if any. Any unauthorized alteration or modification of the equipment by Buyer will void this warranty. Seller's liability under this warranty shall be limited to the replacement or repair, F.O.B., point of manufacture, of any defective equipment or part which, having been returned to the factory, transportation charges prepaid, has been inspected and determined by Seller to be defective. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR USE, OR ANY OTHER MATTER. Under no circumstances shall Seller be liable to Buyer or any third party for any loss of profits or other direct or indirect costs, expenses, losses or consequential damages arising out of or as a result of any defects in or failure of its products or any part or parts thereof or arising out of or as a result of parts or components incorporated in Seller's equipment but not supplied by the Seller.

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Fluid Purification

CUNO Pacific Pty Ltd
140 Sunnyholt Road
Blacktown, NSW 2148
Australia

CUNO GmbH
Wihl-Th-Römhheld-Str. 32
55130 Mainz
Germany

CUNO Srl
Via Zara, 38
20032 Cormano (Mi)
Italy

CUNO Filtration Asia Pte Ltd
18 Tuas Link 1 (3rd Floor)
Singapore 638597

CUNO Latina Ltda
Rua Amf Do Brasil 251
18120 Mairinque-Sp
Brazil

CUNO Europe SA
19 Avenue de la Sablière
ZI de la Sablière
BP 81 - 94372 Sucy en Brie Cedex
France

CUNO K.K.
Hodogaya Station
Building 6F
1-7 Iwai-cho, Hodogaya-ku
Yokohama 240 Japan

CUNO Ltd
21 Woking Business Park
Albert Drive
Woking, Surrey GU215JY
United Kingdom

Cuno Incorporated

400 Research Parkway
Meriden, CT 06450, U.S.A.

Tele: (800) 243-6894

(203) 237-5541

Fax: (203) 238-8977