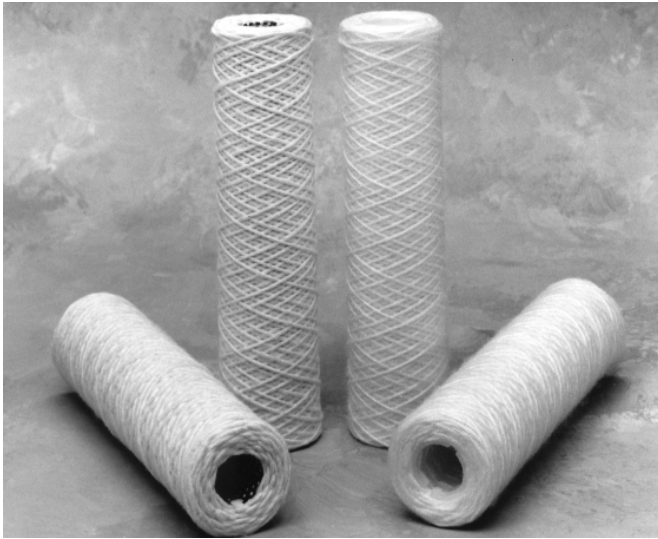


## MPF®II Filter Cartridges



MPF II filters are an improved conventionally wound cartridge manufactured by CUNO Incorporated on state-of-the-art precision winding machines. Yarn-wound filter cartridges are simple and versatile. The materials of construction (core and roving) offer broad chemical compatibility and economical filtration.

Continuous length winding (no matter what the cartridge length) eliminates the “dead” spots found on conventionally wound cartridges. A single roving strand employs a strictly controlled material to produce a consistent and high quality cartridge. This advanced manufacturing technology, combined with a choice of media types and wind patterns, ensures filtration that best fits the application to provide economical and efficient results time and time again.

### Applications

A full line of yarn-wound replacement filter cartridges for fluid applications in varied industries:

Chemical  
Utilities  
Electronics  
Photographic

Food & Beverage  
Printed Circuits  
Pharmaceutical  
Oil & Gas

Paint & Ink  
Well Services  
Petrochemical  
Plating

### Construction

MPF II filters represent an improved cartridge manufacturing process that eliminates “joints” found in conventional multiple length cartridges. This eliminates problems of by-pass, restricted flow, and inconsistent micron retention.

The standard media include bleached cotton, unbleached cotton, rayon, and polypropylene. The MPF II cartridge core is available in a variety of materials including tin plated steel, 304 and 316 stainless steel, and polypropylene. Consult Table 3 for further information.

### Operating Parameters

Operating Data	
Maximum Operating Temperature	See Table below.
Maximum Operating Pressure	70 psid (4.8 bar)
Maximum Flow Rate	See Table 3

TABLE 1 - MPF II Operating Parameters

### Performance

The MPF II cartridge is a nominal rated cartridge available with ratings from 0.5 to 350  $\mu$ m. Recommended aqueous fluid flow rates, along with nominal ratings for each grade are listed in table 2. Note that the flow rate should never exceed 10 gpm.

Grade	Nominal Rating ( $\mu$ m)	Flow Rate * (gpm)
Z	0.5	< 1
Y	1	1
A	3	2
B	5	4
C	10	5
F	25	6
L	50	6
Q	75	6
V	100	6
W	350	6

\* Per 10" nominal increment.

Table 2. - MPF II Grades and Flow

Media	Maximum Temperature	Core Material	Applications
Cotton (Bleached)	250°F / 121°C	Tin Plated Steel	Use for potable liquids, vegetable oil, beverages, organic solvents, water, dilute acids, and petroleum products. Cartridge materials meet FDA requirements.
	250°F / 121°C	304 & 316 Stainless Steel	
	140°F / 60°C	Polypropylene	
Cotton (Unbleached)	250°F / 121°C	Tin Plated Steel	Use on non-critical applications.
	250°F / 121°C	304 & 316 Stainless Steel	
	140°F / 60°C	Polypropylene	
Polypropylene	210°F / 121°C	Tin Plated Steel	Filtration of water, organic acids, alkalies, oxidizing and reducing agents and many other chemicals.
	210°F / 121°C	304 & 316 Stainless Steel	
	140°F / 60°C	Polypropylene	
Rayon	300°F / 121°C	Tin Plated Steel	Chemical compatibility is similar to cotton. Use in filtration of petroleum products.
	300°F / 121°C	304 & 316 Stainless Steel	
	140°F / 60°C	Polypropylene	

## Non-Aqueous Selection Guide

To determine the system requirements for a specific grade selection, refer to Chart 1 and complete the following:

1. Select the required grade from the micron Selection Line (MSL) in Chart 1.
2. Using a straight-edge, draw a line from the grade mark on the MSL through the desired pressure drop to the Index Line.
3. Choose the viscosity of the material to be filtered on the Viscosity Line.
4. Using a straight-edge, draw a line from the viscosity mark, intersecting the mark made prior on the Index Line, to the Flow GPM Line.
5. Adjust the Pressure Drop Line to achieve the required flow.

To select an MPF II to fit static system requirements (i.e., flow rate and pressure drop), start with the fluid viscosity and choose the flow rate. Then draw a line from the Index Line, through the desired pressure drop, to the MSL.

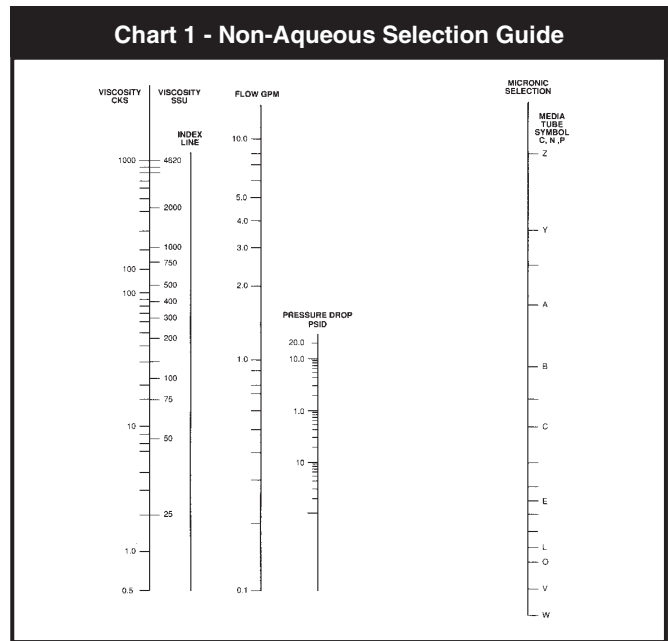


Chart 1. Non-Aqueous Selection Guide

## MPF II - ORDERING GUIDE

Plant Code 06 Product Code 062

Cartridge Type	Wind Pattern	Cartridge Length	Grade Designation		Media	Core Material	Options
			Grade	Nominal Rating (micron)			
C - MPF II	S - Standard	09 - 9 7/8"	Z	0.5	C - Bleached Cotton P - Polypropylene N - Unbleached Cotton R - Rayon	P - Polypropylene F - Tinned Steel S - 304 S.S. T - 316 S.S.	N - None P - Polypropylene Core Extender X - 316 S.S. Core Extender V - Voile Core Covering
		19 - 19 1/2"	Y	1			
		20 - 20"	A	3			
		29 - 29 1/4"	B	5			
		30 - 30"	C	10			
		39 - 39"	F	25			
		40 - 40"	L	50			
			Q	75			
			V	100			
			W	350			

### 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.

Your Local CUNO Distributor is:



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