



## Marksman™ 740 Series Filter Elements

### Description

The Marksman™ 740 Series filter element is a direct retrofit to the industrial 740 format. With the addition of this new format to Pall's Marksman family of elements, users can now enjoy an even broader range of filter media and grades offered by a single source. The cartridge utilizes an optimized, axial pleat geometry for high-efficiency, low flux (flow per unit area), and exceptional dirt-holding capacity, which yields long on-stream life and low differential pressure. The clear advantage of the Marksman 740 Series filter is broad chemical compatibility and economy of use. The Marksman 740 Series filter is available in two media options.

### Media Options

#### Poly-Fine® XLD Media

Poly-Fine XLD (Extended Life Depth) media is optimized for large cartridge geometry filters. Poly-Fine XLD media is a hybrid media offering the best of depth media performance in a pleated format. Constructed of all polypropylene, it offers wide chemical and service compatibility.

#### Poly-Fine II Media

Poly-Fine II media is the ideal media for true surface filtration. Poly-Fine II media offers the optimum in a high dirt-holding capacity pleated filter geometry. Also constructed of all polypropylene, it presents versatility and broad chemical compatibility.

#### Innovative Technology

All Marksman Series filters are manufactured in Pall's ISO 9001 state-of-the-art facilities and contain the most advanced melt-blown media available. Our proprietary processes produce media for the sole-purpose of filtration.

Thorough attention to every detail of the manufacturing process assures a product with unmatched performance:

- Unsurpassed consistency
- High void volume<sup>1</sup> for high dirt-holding capacity
- Broad range of chemical compatibility for maximum application utility

### Performance Specifications

#### Filter Grades (Liquid service)

PFTM: 1, 3, 5, 10, 20, 40, 70, 90, 150

XLDM: 1.5, 3, 4.5, 10, 20, 30, 70

#### Maximum Operating Differential Pressure:

3.4 bard (50 psid) @ 79°C (175°F)



### Product Specifications

#### Materials of Construction:

Filter media:	Polypropylene
Center core:	Tin coated steel
Support	Polypropylene
End caps:	Polypropylene

#### Dimensions (nominal):

Outside diameter:	150 mm (6 in)
Inside diameter:	94 mm (3.7 in)
Length:	965mm (38 in)

<sup>1</sup> - Void volume is defined as that fraction of the media not occupied by media fibers. Pall's proprietary construction yields a media with over 80% void space, allowing the greatest dirt-holding capacity (DHC), and consequently long filter life, which translates into fewer element change-outs, reduced operator exposure, and lower overall operating costs.

## Applications

Amines, chemicals, hydrocarbons, water and other fluids handled in the refining, petrochemical, and chemical industries are often contaminated with harmful particles that must be removed. The Marksman 740 Series filter offers a wide range of media for broad compatibility and durability for such service.

## Retrofit Configuration

The Marksman 740 Series filter provides an intrinsic 360 degree positive seal utilizing a 226 O-ring, which permits a direct fit into an existing vessel. This filter is also available in a "short" option for other competitive variants of this filter format. For details, please consult your Pall representative.

## Part Numbers/Ordering Information

■ – 740 ♦ (e.g., PFTM 3-740N)

Poly-Fine II Media Code	
PFTM	1
PFTM	3
PFTM	5
PFTM	10
PFTM	20
PFTM	40
PFTM	70
PFTM	90
PFTM	150

Poly-Fine XLD Media Code	
XLDM	1.5
XLDM	3
XLDM	4.5
XLDM	10
XLDM	20
XLDM	30
XLDM	70

Code ♦	O-ring Materials
S	Silicone elastomer
N	Nitrile
V	Fluorocarbon elastomer
E	EPDM

## Particle Removal Ratings<sup>2</sup>

Media Grade	Beta 10	Beta 1000
<b>Poly-Fine II</b>		
PFTM 1	1 µm	
PFTM 3	2 µm	
PFTM 5		5 µm
PFTM 10		9 µm
PFTM 20		15 µm
PFTM 40	20 µm	
PFTM 70		70 µm
PFTM 90	57 µm	
PFTM 150		145 µm
<b>Poly-Fine XLD</b>		
XLDM 1.5	1 µm	
XLDM 3	3 µm	
XLDM 4.5	4 µm	
XLDM 10	6 µm	
XLDM 20	11 µm	
XLDM 30	17 µm	
XLDM 70	26 µm	

## Typical Flow<sup>3</sup>

Poly-Fine II Media Grade	PSID per 1 GPM (mbard/lpm) - Water @ 68°F (20°C)	Poly-Fine XLD Media Grade	PSID per 1 GPM (mbard/lpm) - Water @ 68°F (20°C)
PFTM 1	0.010 (0.152)	XLDM 1.5	0.009 (0.164)
PFTM 3	0.007 (0.137)	XLDM 3	0.007 (0.128)
PFTM 5	0.004 (0.078)	XLDM 4.5	0.004 (0.073)
PFTM 10	0.002 (0.045)	XLDM 10	0.003 (0.055)
PFTM 20	0.003 (0.047)	XLDM 20	0.003 (0.055)
PFTM 40	0.003 (0.051)	XLDM 30	0.003 (0.055)
PFTM 70	0.002 (0.042)	XLDM 70	0.003 (0.055)
PFTM 90	0.003 (0.053)		
PFTM 150	0.002 (0.042)		

<sup>2</sup> - Removal efficiencies based upon a modified ASTM F795 Dynamic Single Pass Efficiency test.

<sup>3</sup> - Pressure drop in PSID per GPM water for a single 38 in (965 mm) element. Multiply this value by the required flow to determine the total aqueous pressure drop. For fluids other than water, multiply differential pressure by viscosity (cP).

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