

3M™ 400 Series Filters

3M™ 400 Series Filter, designed to provide contaminant reduction in refinery amine systems, is a pleated polypropylene filter, featuring outside to inside flow direction. The filter is manufactured with 3M lofted, blown micro-fiber filter medium for long service life. The 3M lofted, blown micro-fiber filter medium provides high particle removal efficiency and retention of semi-solids within its polypropylene filter matrix.

3M 400 series filters are used in filter housings that accept 4 ¼” outer diameter, 40” long, coreless filters. The large, 4 ¼” outer diameter, pleated depth media filter design permits higher flow rates than standard 2 ½” diameter filter.

3M polypropylene micro-fiber forms the basis of the filtration media used in the 3M 400 series filters. 3M’s media manufacturing processes allows for tightly controlled specifications, resulting in consistent and predictable particle retention characteristics.

The 3M 400 series filters are offered in one retention rating, 5 micron NOMINAL (70 micron ABS @ 99.9% Particle Removal Efficiency). The 3M 400 Series filters are offered with four end configurations. For additional information, see part description table on the next page.

Table– 3M™ 400 Series Filter Cartridge Specifications	
Filter Media	Polypropylene media
Upstream Support	Polypropylene
Downstream Support	Epoxy coated steel
Outer Sleeve	Polypropylene
Potting Material	Epoxy
End Caps	Glass filled Nylon
O-ring	Nitrile
Maximum Flow Rate/Clean Differential Pressure	75 gpm (17 m ³ /hr) / < 1 psid (< .07 bar)
Maximum Operating Temperature	176°F (80°C)
Maximum Forward Differential Pressure	50 psid @ 68°F (3.4 bar @ 20°C) and 35 psid @ 176°F (2.4 bar @ 80°C)
Recommended Change-out Differential Pressure	35 psid (2.4 bar)
Inside Diameter (nominal)	1 ½” (38 mm) for B modification only; 1 ⅞” (48 mm) for A, C, & D end modifications
Outside Diameter (nominal)	4 ¼” (108 mm)
Length (nominal)	40” (1016 mm)

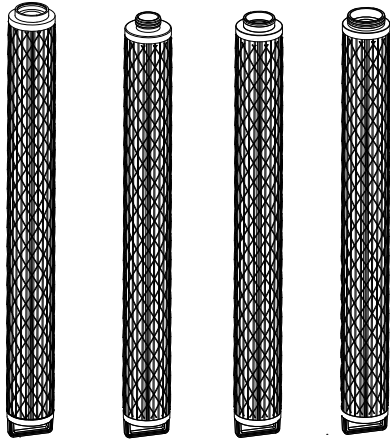


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3M™ 400 Series Filters Ordering Guide

Part Number Composition

440	B	40	PN	N05	X	D
Product Series: 440 = 4¼" Outer Diameter Pleated Filter	Construction: B = Standard	Length: 40 = 40" nominal	Materials of Construction: PN = Polypropylene Media with Nylon & Coated Steel Hardware	Micron Rating: N05 = 5 Micron Nominal (70 Micron Absolute)	End Modification: A, B, C, or D (refer to Descriptions below)	O-Ring Material: D =Nitrile



END MOD "A" END MOD "B" END MOD "C" END MOD "D"

Ordering 3M™ 400 Series Filters

Part Number	3M ID	Description
440B40PNN05AD	70020346162	5µm Nominal (70µm ABS), 4 ¼" Dia., 40" long, SOE/ Flat cap with handle, 231 Internal O-Ring, Nitrile
440B40PNN05BD	70020346170	5µm Nominal (70µm ABS), 4 ¼" Dia., 40" long, SOE/ Flat cap with handle, 226 External O-Rings, Nitrile
440B40PNN05CD	70020346188	5µm Nominal (70µm ABS), 4 ¼" Dia., 40" long, SOE/ Flat cap with handle, 231 External O-Ring, Nitrile
440B40PNN05DD	70020346196	5µm Nominal (70µm ABS), 4 ¼" Dia., 40" long, SOE/ Flat cap with handle, 235 External O-Rings, Nitrile

For more information about 3M™ 400 Series please contact your local Industrial territory Sales Manager, call 1-800-243-6894, or visit our website at 3MPurification.com.

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