



Military Coalescer I-4xxA4 & MM Family

Qualified to API/EI 1581 5th Edition, Category M, M100, MIL-PRF-52308J, MIL-PRF-32148

DESCRIPTION

The **I-4xxMM** filter/coalescer cartridge has an internal multi-layer pleat block with a large surface area for greater dirt holding capacity. A fine fiber micro-glass shell provides optimum water removal characteristics. The advanced composition of our “MM” Series media allows most vessel configurations to meet API/EI 1581 5th Edition, Category M, performance requirements.

Identical in form and fit to the I-4xxMM, the **I-4xxA4** filter/coalescer cartridges allows most vessel configurations to meet API/EI 1581 5th Edition, Category M100 performance requirements.

APPLICATION

These cartridges are designed to fit in DOD military vessels such as those originally made to the MIL-F-27629 and 27630 specifications.

I-440MM filter/coalescer (NSN 4330-01-511-8268) has been specifically designed to replace a stack of two standard DOD filter/coalescers (NSN 4330-00-983-0998). The I-440MM is also a direct replacement for the previous 3rd Edition model, I-44087 (NSN 4330-01-407-3548).

An objective of the 40-inch cartridge is to eliminate three potential leakage points (there are o-rings at each end of a 20-inch cartridge). The I-440MM has a top blind end and an o-ring at the lower end. Use one Gammon GTP-5935-M alignment pin in the top blind cap to provide a locator for spider plate alignment.

I-440AMM has an o-ring at each end to accommodate a few existing filter/separator vessels that use tie rods instead of spider plates to hold the cartridges. I-420MM (NSN 4330-01-511-8209) and I-420MMA (NSN 4330-01-477-7985), the 20-inch coalescers, also have an o-ring at each end and are direct replacements for the 20-inch DOD cartridge. No alignment pin is required for any of these models.



Top—Blind cap



Bottom—Mounting end with O-ring seal



GTP-5935-M
Alignment Pin



I-440MM*


* I-440AMM: Alternative version with O-Ring seals on **both** ends

CARTRIDGE SELECTION

Velcon Part Number	NSN (National Stock Number)	Specification(s)	Dimensions (Inches)		Endcaps	Seal	Blind Cap	Max Rated Flow (USGPM)
			OAL	OD				
I-420A4	4330-01-548-4867	Category M100: API/EI 1581, 5th Ed.	20	3.625	Injection molded glass filled nylon 6/6	O-ring, both ends	N/A	20
I-420MM	4330-01-511-8209	Category M: API/EI 1581, 5th Ed. and MIL-PRF-52308J						
I-420MMA	4330-01-477-7985							
I-420MMF	4330-00-931-2472	MIL-PRF-32148	20.125	3.75	Aluminum	Flat gaskets	N/A	17.5
I-424MMF	4330-00-931-2473		24.125	3.75	Aluminum	Flat gaskets	N/A	21
I-440A4	4330-01-548-6906	Category M100: API/EI 1581, 5th Edition	39.875	3.625	Injection molded glass filled nylon 6/6	O-ring, one end	Opposite End	40
I-440MM	4330-01-511-8268	Category M: API/EI 1581, 5th Ed. and MIL-PRF-52308J	39.875	3.625	Injection molded glass filled nylon 6/6	O-ring, one end	Opposite End	40
I-440AMM	N/A	Category M: API/EI 1581, 5th Ed.	39.875	3.625	Injection molded glass filled nylon 6/6	O-ring, both ends	N/A	40
I-620MM	4330-01-516-6994	Category M: API/EI 1581, 5th Ed.	20.125	6.0	Aluminum	Flat gaskets	N/A	45.5

SPECIFICATIONS

Changeout Differential Pressure	15 psid
Maximum Pressure Rating	75 psid
Maximum Operating Temperature	160 °F
Micron Rating	0.4



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