



CDF®

# Fuel Monitor Cartridges

## N Series

### Field Proven: CDF Replacement Cartridges Assure Clean Dry Fuel Delivery

#### FEATURES

**CDF-N SERIES** are qualified to IP 1583, Fourth Edition, a specification for Aviation Fuel Filter Monitors.

#### IMPROVED SALT WATER PERFORMANCE

**CONDUCTIVE END CAPS** and adhesive for reduction of static charge within the vessel

**O-RING SEAL** minimizes the possibility of bypassing contaminated fuel at differential pressures up to 175 psi.

**RUGGED CONSTRUCTION** collapse strength exceeds 175 psi differential pressure.

#### DESCRIPTION

The Velcon CDF® N Series cartridges are designed to provide superior performance and reliability in standard fuel monitor housings through a unique, patented combination of media that absorbs water and filters solids that may be present in the fuel, and provides for reduced static charge. Full flow through the media is provided by plastic endcaps that are bonded to the media and an O-ring seal on the outlet end. This minimizes the possibilities of bypassing contaminated fuel or transmission of water downstream at low flow rates.

The presence of water and/or dirt in the influent fuel is indicated by an increase in the pressure differential (or a decrease in flow rate if the monitor housing is not equipped with a differential pressure gauge). These changes are the result of flow restriction caused by dirt filtration or water absorption in the media. The frequency of these changes will depend on the quantity of water or contaminant present.



**The CDF-N Series construction contains an extra layer of fine filter medium required to meet the tighter filtration requirements of the IP 1583 Fourth Edition specification.**

#### \*\*\*\*\*CAUTION\*\*\*\*\*

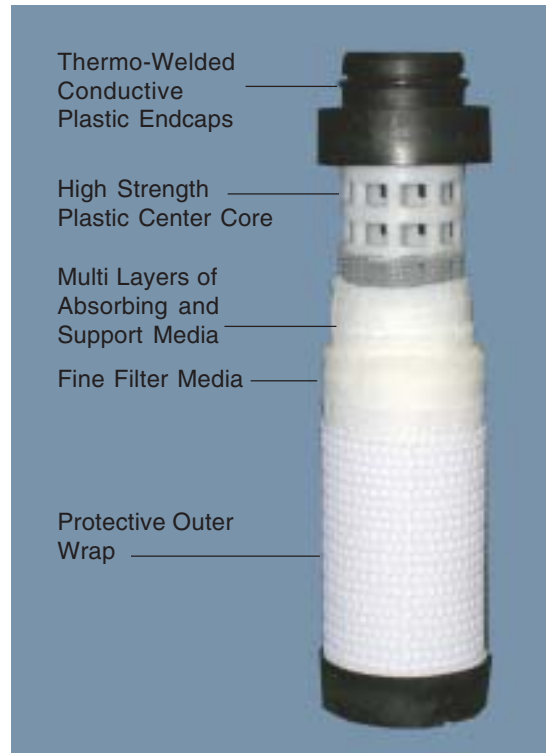
In fuels containing anti-icing additive (Di-EGME, FSII, Prist®), stagnant water bottoms can absorb large amounts of the antiicing additive. This water/FSII solution can disarm water-absorbing elements allowing water to pass downstream. Daily draining of the monitor vessel and of water bottoms upstream of the elements is **IMPERATIVE**. Also, changeout @ **15 psid**.

## IP Specification 1583 Fourth Edition Information

Our new CDF®-2xxN Series Cartridges incorporate features that result in an increase of electrical conductivity to quickly dissipate electrostatic charge across the cartridge. This is in response to the new requirement in the specification to reduce static charge within the filter monitor.

Another addition to the specification is an optional test to determine the performance of the cartridge in a salt water environment. The CDF® N Series successfully passed the following tests:

1. ¾% Sodium Chloride full flow slug test
2. ¾% Sodium Chloride 50 ppm test



## CARTRIDGE SELECTION TABLE

Cartridge Flow Rate GPM	Velcon Model Number	Overall Length	Replacements for:	
			Facet Model Number	Racor Model Number
5	CDF-205N	5 <sup>13</sup> / <sub>16</sub> "	FG-205-3	—
10	CDF-210N	10 <sup>13</sup> / <sub>16</sub> "	FG-210-3	FMI-10203
15	CDF-215N	15 <sup>13</sup> / <sub>16</sub> "	FG-215-3	FMI-15203
20	CDF-220N	20 <sup>13</sup> / <sub>16</sub> "	FG-220-3	FMI-20203
25	CDF-225N	25 <sup>13</sup> / <sub>16</sub> "	FG-225-3	FMI-25203
30	CDF-230N	30 <sup>13</sup> / <sub>16</sub> "	FG-230-3	FMI-30203

## SPECIFICATIONS AND TECHNICAL INFORMATION CDF® N SERIES

- 175 psid (12 bar) collapse strength
- 160°F maximum operating temperature
- Recommended changeout differential pressure = 25\* psid (\*15 psid if the fuel contains anti-icing additive)
- For service life information, please refer to Operating Procedures #1839 or consult your company fuel handling procedures.

## ORDERING INFORMATION

- Specify Velcon Model Number from table above. CDF Cartridges are packaged 20 per carton.



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your LOCAL REPRESENTATIVE:

**COMPANY HEADQUARTERS:**  
 Velcon Filters, Inc.  
 1210 Garden of the Gods Road  
 Colorado Springs, CO 80907-3410  
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 www.velcon.com

**MANUFACTURING PLANTS LOCATED AT:**  
 Colorado Springs, Colorado  
 Sylacauga, Alabama  
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