

# MAHLE

*Industry*

## Cartridge Filters Nowata NFG Series

Particulate and Mist Removal for Dry & Wet Gas Filter Applications  
Especially Suited for Natural Gas Applications

### 1. Introduction

NFG series, forward flow, vapor phase, filter separator cartridge elements are designed to filter fine dirt particles and to coalesce liquids from natural gas without excessive pressure differential build-up in “outside-in” flow applications. NFG series filter cartridges are especially suited for use in the Nowata GW series gas filter housings. (These filter cartridges are not designed for compatibility with amine.)

The nominally rated NFG series cartridge filter elements have the following characteristics:

#### Features

- The molded fiberglass tube is constructed of glass fibers and bonded with inert phenolic binders
- The spiral locked steel core gives added protection against collapse at high differential pressures
- Metal end caps are mechanically attached to the center core to protect the ends of the fiber-glass media. A special sealant material is used to bond the media, core and end cap to prevent channeling and by-pass
- Buna-N gaskets are adhered to the metal end caps with a heat cured urethane adhesive. The adhesive is resistant to most hydrocarbon liquids



## 2. Construction Specifications for the NFG Series Cartridges

Micron Ratings Available	0.5 & 1.0 micron
Recommended Change-Out Differential Pressure	15 psi
Maximum Operating Temperature	275 °F (135 °C)
Minimum Operating Temperature	-20 °F (-29 °C)
Center Core	Carbon steel
Outer Core	Carbon steel
End Caps	Carbon steel
Gaskets	Buna N
Gasket Adhesive	Urethane
Filter Media	Fiberglass
Outer Sock	Cotton
Flow	Outside to In
Efficiency	1 micron nominal

### **NFG Series Cartridges 3-1/2 inches O.D. by 2 inches I.D.**

Cartridge Model Number NFG12	12 inches long, 1 micron
Cartridge Model Number NFG24	24 inches long, 1 micron
Cartridge Model Number NFG36	36 inches long, 1 micron
Cartridge Model Number NFG12UF	12 inches long, 0.5 micron
Cartridge Model Number NFG24UF	24 inches long, 0.5 micron
Cartridge Model Number NFG36UF	36 inches long, 0.5 micron
Cartridge Length Availability	12, 24, 36 inches
Outside Diameter	3-1/2 inches
Inside Diameter	2 inches

### **NFG Series Cartridges 4-1/2 inch O.D. by 3 inch I.D.**

Cartridge Model Number NFG312	12 inches long, 1 micron
Cartridge Model Number NFG324	24 inches long, 1 micron
Cartridge Model Number NFG336	36 inches long, 1 micron
Cartridge Model Number NFG372	72 inches long, 1 micron
Cartridge Model Number NFG312UF	12 inches long, 0.5 micron
Cartridge Model Number NFG324UF	24 inches long, 0.5 micron
Cartridge Model Number NFG336UF	36 inches long, 0.5 micron
Cartridge Model Number NFG372UF	72 inches long, 0.5 micron
Available Cartridge Lengths	12, 24, 36, 72 inches
Outside Diameter	4-1/2 inches
Inside Diameter	3 inches

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