

# Fiberglass Depth Filter Cartridges

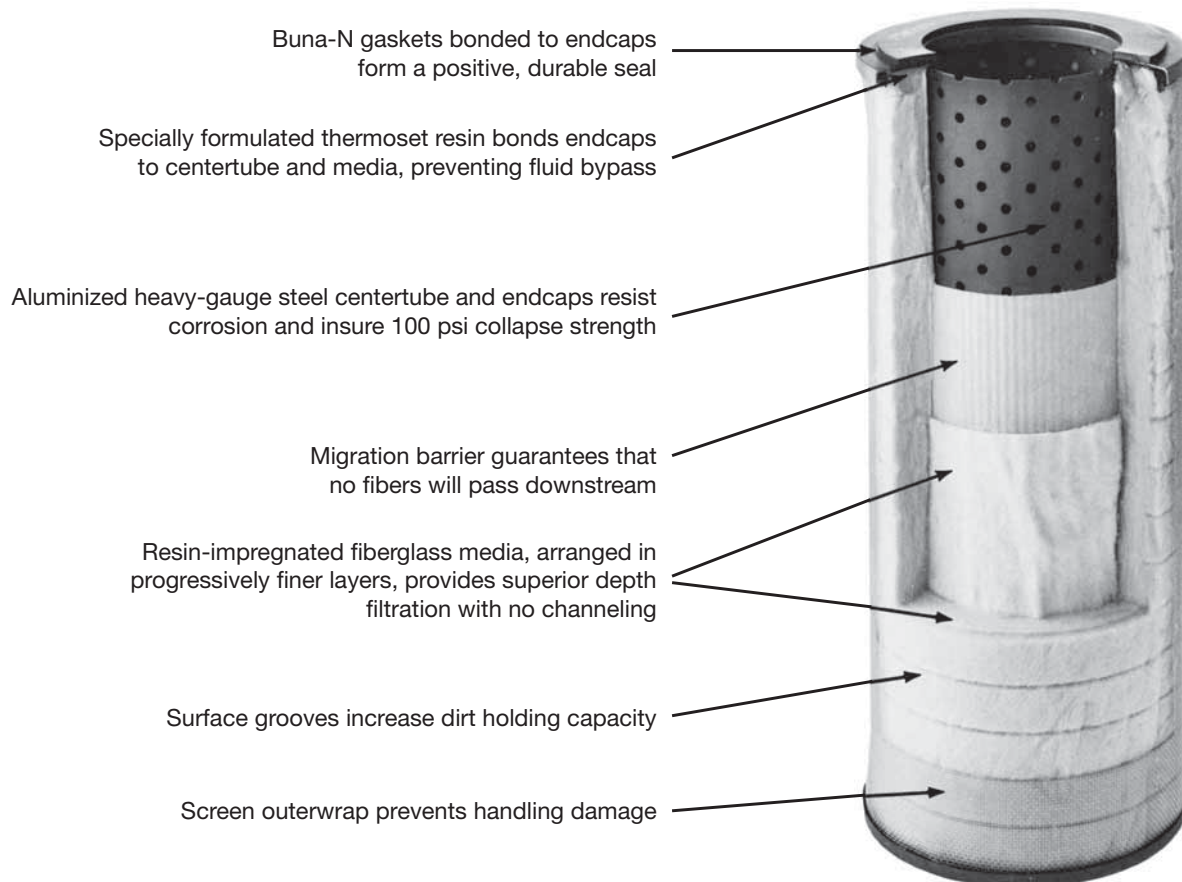
FO-xxxFGA Series. High Efficiency, Long Life Cartridges for Oils & Fuels

## DESCRIPTION

Parker Velcon Fiberglass Depth Filter Cartridges have proven superior in filtering colloidal or slimy contaminants. Lube oil and EDM coolant filtration are this type of application where fiberglass elements consistently filter better with dramatically longer life than other types of media.

## APPLICATIONS

- Hydraulic Oils
- Cutting Oils
- Glycols
- Degreasing Fluids
- Water Emulsion Coolants
- Naphtha
- Lube Oils
- Ethyl Alcohol
- Boiler Feed Water
- Fuels
- Synthetic Oils
- Biodiesel



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## CARTRIDGE INFORMATION

Model Number	O.D. (inches)	I.D. (inches)	Length (inches)	Micron Rating
FO-618FGA5	6	2 <sup>9</sup> / <sub>16</sub>	18	5
FO-618FGA10	6	2 <sup>9</sup> / <sub>16</sub>	18	10
FO-618FGA25	6	2 <sup>9</sup> / <sub>16</sub>	18	25

## SPECIFICATIONS

- 100 psi collapse strength
- 5 - 9 operating pH range
- 98% + filtration efficiency
- 250°F (121.1°C) maximum operating temperature
- Recommended changeout : 25 psid



## FILTER SIZING INFORMATION

### CARTRIDGE FLOW RATE (USGPM) VS. VISCOSITY DATA FOR 2 PSI AND 5 PSI INITIAL PRESSURE DROPS

Cartridge	33 SUS 2 CS		39 SUS 4 CS		46 SUS 6 CS		59 SUS 10 CS		98 SUS 20 CS		142 SUS 30 CS		187 SUS 40 CS	
	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi
FO-718PL1/2	50	50	50	50	38	50	23	50	12	29	8	19	6	15
FO-718PL01	50	50	50	50	38	50	23	50	12	29	8	19	6	15
FO-718PL02	50	50	50	50	50	50	50	50	31	50	21	50	16	39
FO-718PL05	50	50	50	50	50	50	50	50	50	50	50	50	50	50
FO-718PL15	50	50	50	50	50	50	50	50	50	50	50	50	50	50
FO-718PL50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
FO-618FGA5	68	68	66	66	42	65	25	60	13	31	8	21	6	16
FO-618FGA10	68	68	66	66	50	65	30	64	15	38	10	25	8	19
FO-618FGA25	68	68	66	66	50	65	30	64	15	38	10	25	8	19

Cartridge	233 SUS 50 CS		348 SUS 75 CS		463 SUS 100 CS		927 SUS 200 CS		1390 SUS 300 CS		1853 SUS 400 CS		2316 SUS 500 CS	
	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi	2 psi	5 psi
FO-718PL1/2	5	12	3	8	2	6	1	3	1	2	1	2	-	1
FO-718PL01	5	12	3	8	2	6	1	3	1	2	1	2	-	1
FO-718PL02	12	31	8	21	6	16	3	8	2	5	2	4	1	3
FO-718PL05	41	50	27	50	20	50	10	25	7	17	5	13	4	10
FO-718PL15	50	50	50	50	42	50	21	50	14	35	10	26	8	21
FO-718PL50	50	50	50	50	50	50	30	50	20	50	15	38	12	30
FO-618FGA5	5	13	3	8	2	6	1	3	1	2	1	2	1	1
FO-618FGA10	6	15	4	10	3	8	1	4	1	3	1	2	1	2
FO-618FGA25	6	15	4	10	3	8	1	4	1	3	1	2	1	2

NOTE: Figures in table are flow rates (US GPM) that will cause a pressure drop of 2 or 5 psi across the cartridge.

### CONTAMINANT CAPACITY

Parker recommends filter cartridges be changed when they reach 25 psi differential or in accordance with your company's fuel handling procedures. The amount of contaminant a cartridge will hold before that point depends on many factors, the key one being the nature of the contaminant itself. A hard, particulate contaminant has very different filtration characteristics than a soft, gel-like contaminant.

Accurately estimating the life of a cartridge in a given application, therefore, is extremely difficult. However, when a cartridge has been sized for an initial pressure drop of 2 psi, the following rule of thumb is often employed for particulate contaminants: A 1 or 2 micrometer cartridge will hold up to 3 pounds of contaminant, and a 5 micrometer or greater cartridge will hold up to 5 pounds.

### REDUCED FLOW RATE EFFECTS

The filter sizing above is based on a 2 psi initial pressure differential which is a widely accepted industry standard. However, where heavy contaminant loads are anticipated, a substantial savings in operating costs for cartridges and filter change labor can be achieved by over-sizing the filter. Reducing the flow rate per cartridge in half will increase the contaminant capacity of each cartridge by 30 to 50 percent. This means that doubling the size of the filter will increase the total throughput between cartridge changeouts by as much as three times.



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