

DFO Series

Particulate Filtration

High Quality Filtration for Diesel and Biodiesel Applications

Diesel fuel is stored and transferred multiple times from refining to dispensing. Preventive action does not always eliminate contamination. Common contaminants introduced during transportation include both extremely fine and abrasive silica as well as pipe scale. These contaminants can quickly deteriorate fuel quality below engine manufacturer standards, reducing the durability and performance of the engine.



Parker DFO filters transform contaminated fuels to meet stringent downstream ISO 4406 cleanliness standards for the demanding limits placed on diesel and biodiesel fuels. The DFO design balances high surface area and depth filtration to maximize filter life which reduces filtration costs.

Tiered Ratings

To meet industry fuel quality standards, Parker HFFD developed pleated media filters for diesel and biodiesel fuels. In accordance with ISO standards, the DFO filters were designed with tiered media classification using absolute rated media. Each media tier provides a unique solution from managing fuel contamination to final fuel conditioning.

- DFO filters with ratings of 2 and 5 micron are the ultimate solution to condition fuel for dispensing while assuring ISO 4406 Cleanliness Standards are consistently met. Each progressively tighter DFO filter rating delivers additional particle removal and fuel cleanliness; therefore progressively lower ISO 4406 particle counts.

- The mid-range DFO filters of 10 micron extend filter life following secondary conditioning by removing particulate contaminants and allowing Parker's downstream coalescing products to focus on water removal rather than particle removal.
- The DFO filters rated at 25 micron are the ideal solution to manage contaminated fuel entering and leaving terminal storage tanks throughout the fuel transferring process.

Benefits

- Reduced operating costs by removing particulates that can cause engine damage
- Reliable fuel injector performance when particulate contaminants are removed to meet ISO 4406 Cleanliness Standards
- Improved equipment uptime, reduces equipment failures, repairs, and/or replacements

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Specifications

- Multi-layer pleated filtration layers using engineered fiber blends for optimum filter life and efficiency.
- All filter components compatible with diesel and biodiesel blends
- Inside diameter
 - 3.5 in (88.9 mm)
- Outside diameter
 - 6 in (152.4 mm)
- Recommended change out pressure: 25 psid (1.7 bar)
- Nitrile sealing materials are standard
- Maximum Operating Temperature: 225°F (107°C)
- End cap configuration options
 - Double open end
 - Threaded base (TB)
- Collapse pressure
 - 75 psi (5.2 bar)
- pH range (continuous operation)
 - 5-9

Element Part Numbers

Part Number	Length (inch)	Micron Rating (µm)	End Cap Configuration
DFO-512PLF2	12	2	Double Open End
DFO-512PLF5	12	5	Double Open End
DFO-512PLF10	12	10	Double Open End
DFO-512PLF25	12	25	Double Open End
DFO-524PLF2	24	2	Double Open End
DFO-524PLF5	24	5	Double Open End
DFO-524PLF10	24	10	Double Open End
DFO-524PLF25	24	25	Double Open End
DFO-614PLF2	14	2	Double Open End
DFO-614PLF5	14	5	Double Open End
DFO-614PLF10	14	10	Double Open End
DFO-614PLF25	14	25	Double Open End
DFO-629PLF2	29	2	Double Open End
DFO-629PLF2TB	29	2	Threaded Base
DFO-629PLF5	29	5	Double Open End
DFO-629PLF5TB	29	5	Threaded Base

Part Number	Length (inch)	Micron Rating (µm)	End Cap Configuration
DFO-629PLF10	29	10	Double Open End
DFO-629PLF10TB	29	10	Threaded Base
DFO-629PLF25	29	25	Double Open End
DFO-629PLF25TB	29	25	Threaded Base
DFO-644PLF2	44	2	Double Open End
DFO-644PLF2TB	44	2	Threaded Base
DFO-644PLF5	44	5	Double Open End
DFO-644PLF5TB	44	5	Threaded Base
DFO-644PLF10	44	10	Double Open End
DFO-644PLF10TB	44	10	Threaded Base
DFO-644PLF25	44	25	Double Open End
DFO-644PLF25TB	44	25	Threaded Base
DFO-656PLF2TB	56	2	Threaded Base
DFO-656PLF5TB	56	5	Threaded Base
DFO-656PLF10TB	56	10	Threaded Base
DFO-656PLF25TB	56	25	Threaded Base