

Aquacon[®] - AD Series

Particulate Filtration & Water Removal

Diesel and Biodiesel (FAME) Protection from Particulate and Water Contaminants



Even when the utmost care is taken, contaminants will be introduced as fuel is transported from the refinery to its point-of-use. Common contaminants, including pipe scale, silica, metal debris and water, can quickly deteriorate fuel cleanliness far beyond engine manufacturer's minimum requirements for fuel cleanliness.

Parker's Aquacon Diesel (AD) filters can remove both particulate and water contaminants in fuels to meet stringent downstream ISO 4406 and ASTM D975 cleanliness standards for both diesel or biodiesel fuels. The AD design incorporates multiple layers of both high efficiency long-life particulate retention and water absorbing media.

Water Absorbance Versus Water Coalescing

AD filters are designed to remove both water and particulates from either diesel or biodiesel fuels. AD filters are ideal for use in biodiesel and blended fuels where high levels of surfactants (glycerin) could disrupt water coalescing. When continual removal of water from petroleum based fuel is required, the application of coalescing technology is optimal or preferred.

Tiered Ratings

- Parker's 2 or 5 micron rated AD filters are excellent solutions for delivering fuel ready for dispensing while assuring both ISO 4406 and ASTM D975 cleanliness levels are consistently met. Each progressively tighter AD filter rating adds additional particle removal capability and lowers ISO 4406 particle counts
- The 10 and 25 micron rated filters are ideal for managing fuel contamination entering and leaving terminal storage tanks throughout the fuel transfer process

Benefits

- More reliable fuel injector performance by reducing particulate which can cause cascading damages
- Reduced operating costs due to repair of equipment damaged by particulate and water contaminants
- Reduced engine maintenance due to fewer components being damaged by contaminants
- More efficient fuel consumption due to fewer inhibiting particulate and water contaminants
- Removes free aqueous contaminants from fuel
- Aquacon - AD series elements are recommended for Biodiesel blends over 5% (B5)

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Specifications

- All filter components compatible with diesel and biodiesel blends
- Recommended change out pressure: 25 psid (1.7 bar)
- Water absorbance and particulate retention will increase differential pressure to the change out pressure
- Nitrile sealing materials are standard
- All AD products will remove free and emulsified water from both diesel and biodiesel fuels to levels below 50 ppm
- The water absorbing technology used in AD filters is not effective in the presence of fuels containing high concentrations of alcohol
- Nitrile sealing materials are standard
- Maximum Operating Temperature: 150°F (65°C)
- End cap configuration options
 - Double open end
 - Threaded base
- Maximum burst pressure
 - 75 psi (5.2 bar)
- pH range (continuous operation)
 - 5-9

Element Part Numbers

Part Number	Inside Diam (inch)	Outside Diam (inch)	Length (inch)	Micron Rating (µm)	End Cap Configuration
AD-5122	3	5.625	12.25	2	Open End
AD-5125	3	5.625	12.25	5	Open End
AD-51210	3	5.625	12.25	10	Open End
AD-51225	3	5.625	12.25	25	Open End
AD-5242	3	5.625	24.5	2	Open End
AD-5245	3	5.625	24.5	5	Open End
AD-52410	3	5.625	24.5	10	Open End
AD-52425	3	5.625	24.5	25	Open End
AD-6142	3.5	6	14.5	2	Open End
AD-6145	3.5	6	14.5	5	Open End
AD-61410	3.5	6	14.5	10	Open End
AD-61425	3.5	6	14.5	25	Open End
AD-6292	3.5	6	29	2	Open End
AD-6292TB	3.5	6	29	2	Threaded Base
AD-6295	3.5	6	29	5	Open End
AD-6295TB	3.5	6	29	5	Threaded Base

Part Number	Inside Diam (inch)	Outside Diam (inch)	Length (inch)	Micron Rating (µm)	End Cap Configuration
AD-62910	3.5	6	29	10	Open End
AD-62910TB	3.5	6	29	10	Threaded Base
AD-62925	3.5	6	29	25	Open End
AD-62925TB	3.5	6	29	25	Threaded Base
AD-6442	3.5	6	44	2	Open End
AD-6442TB	3.5	6	44	2	Threaded Base
AD-6445	3.5	6	44	5	Open End
AD-6445TB	3.5	6	44	5	Threaded Base
AD-64410	3.5	6	44	10	Open End
AD-64410TB	3.5	6	44	10	Threaded Base
AD-64425	3.5	6	44	25	Open End
AD-64425TB	3.5	6	44	25	Threaded Base
AD-6562TB	3.5	6	56	2	Threaded Base
AD-6565TB	3.5	6	56	5	Threaded Base
AD-65610TB	3.5	6	56	10	Threaded Base
AD-65625TB	3.5	6	56	25	Threaded Base