

FUEL WATER SEPARATORS



Innovations in Purification

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DELTA Fuel Water Separators provide the best solution for achieving high degree of water separation from Diesel & Aviation Fuel. A two stage solution via Coalescer and Separator stages provides superior quality of Fuel. The Diesel / Aviation Fuel is free from water down to 15 ppm. The first stage is the coalescer stage wherein the Fuel flows inside to outside of the Coalescer Elements. The Coalescer elements are rated at 1 Micron and activate the process of Coalescence i.e. combination of small water droplets to form bulk water. Since water has a higher specific gravity than Fuel, it settles down into the Sump. The fuel free from water then flows through the second stage i.e. Separator stage. The flow direction is outside to inside during which the separator element repels any traces of water droplets and hence allowing only clean dry fuel to exit the Filter Vessel.

SALIENT FEATURES:

- Filters Vessels designed as per ASME Code
- 100% Radiography of all Butt Weld Joints
- With Two Stage Coalescer & Separator Elements
- Particulate Filtration down to 1 Micron, Water removal down to 15 ppm
- Isolation Valves, Drain, Vent and Safety Valves (Optional)
- With Differential Pressure Gauges, Pressure Gauge on Front Panel (Optional)
- Available in both Vertical and Horizontal Orientation



1500 LPM Flow Capacity



500 LPM Flow Capacity



Horizontal Aviation Fuel Water Separator for 667 LPM Flow Capacity

DELTA FUEL WATER SEPARATOR MODELS

MODEL	LINE SIZE (NB)¹	END CONNECTION²	FUEL FLOW RATE (LPM)³	HOUSING MOC⁴	ELEMENT SET CODE
FWS-100	1"	ASA 150	50	Carbon Steel	DE421
FWS-200	2"	ASA 150	100	Carbon Steel	DE830
FWS-250	2½"	ASA 150	250	Carbon Steel	DE845
FWS-300	3"	ASA 150	500	Carbon Steel	DE860
FWS-400	4"	ASA 150	1000	Carbon Steel	DE875
FWS-600	6"	ASA 150	1500	Carbon Steel	DE875

1. Larger sizes available on request to serve higher Fuel flow rates
2. Other Flange Standards can be provided as per customer requirement
3. Flow Rate specified for Diesel Fuel. Contact us for Aviation Fuel Flow Rates.
4. Can be provided in SS304 / SS316 MOC if required

MATERIAL OF CONSTRUCTION

1. **Filter Housing:** A106 Gr. B / SA 516 Gr. 70
2. **Gasket:** SS304 Spiral Wound, GRAFOIL Filled (Non-Asbestos)
3. **Filter Media:** Glass Fibre
4. **Fasteners:** High Tensile ASTM A 193 Gr. B7 + A 194 2H
5. **Paint:** Epoxy Based Primer + Epoxy Final Shade

APPLICATIONS

- Upstream of **Diesel Engines** to protect engine from water contamination
- Marine **Diesel** Applications – on Board Ships
- **Aviation Fuel** Loading / Unloading and in Refineries for high purity Fuel Delivery

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