

DUPLEX NATURAL GAS FILTERS



Innovations in Purification

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DELTA Duplex Natural Gas Filters

provide the best solution for continuous operation required for critical applications. Two high efficiency fuel gas filters are placed in parallel (1 Working + 1 Standby) with interconnecting piping and isolation valves. Filter pressure vessels are designed, manufactured and tested as per latest ASME codes.

Delta Fuel Gas Filters offer both particulate removal and liquid separation in a single filter housing. Pleated borosilicate glassfibre based filter elements offer the best performance in the industry. The process of pleating introduces 5 times the surface area for filtration as compared to traditional filter elements. The end result is large surface area, long life of filter elements, lowest pressure drop and long Mean Time Between Maintenance (MTBM).

SALIENT FEATURES:

- Two Fuel Gas Filters in Parallel
- Skid Mounted Assembly
- Filters Vessels designed as ASME Code
- 100% Radiography of all Butt Weld Joints
- With Delta Pleated Borosilicate Glass Fibre Filter Elements
- Highest Filtration Area , Low Pressure Drop (0.07 Bar) and long MTBM
- Particulate Filtration down to 1 Micron, 99.9999%
- Coalescing Action to ensure less than 1 ppm liquid at outlet gas
- One Working + One Standby providing 24/7 Service
- With Differential Pressure Gauges, Pressure Gauge on Front Panel (Optional)



2" NB FLANGED DUPLEX FILTER



DELTA Pleated GlassFibre Cartridges

DELTA DUPLEX GAS FILTER MODELS

MODEL	LINE SIZE (NB) ¹	END CONNECTION ²	FLOW RATE (SCMH@7 Bar) ³	HOUSING MOC ⁴	ELEMENT MODEL
DGF-015	1/2"	BSP / NPT	80	SS304 / SS316	PL48
DGF-075	3/4"	BSP / NPT	150	SS304 / SS316	PL415
DGF-100	1"	ASA 150	200	Carbon Steel	PL421
DGF-125	1 1/4"	ASA 150	400	Carbon Steel	PD630
DGF-150	1 1/2"	ASA 150	540	Carbon Steel	PD645
DGF-200	2"	ASA 150	1000	Carbon Steel	PD830
DGF-250	2 1/2"	ASA 150	1500	Carbon Steel	PD845
DGF-300	3"	ASA 150	2000	Carbon Steel	PD875

1. Larger sizes available on request to serve higher gas flow rates
2. ASA 300, ASA 600 Options also available for higher operating pressure
3. Contact us for permissible flow rate at operating pressure other than 7 Bar
4. DGF-100 → DGF-400 can be provided in SA 516 Gr. 70/ SS304 / SS316 MOC if required

MATERIAL OF CONSTRUCTION

1. **Filter Housing:** SS304 / SS316 / A106 Gr. B / SA 516 Gr. 70
2. **Gasket:** SS304 Spiral Wound, GRAFOIL Filled (Non-Asbestos)
3. **Filter Media:** Borosilicate Glass Fibre (Pleated)
4. **Element Support:** SS304
5. **Filter Element Seals:** BUNA-N , Viton
6. **Fasteners:** High Tensile ASTM A 193 Gr. B7 + A 194 2H
7. **Paint:** Epoxy Based Primer + Epoxy Final Yellow Shade (2 Coats)

APPLICATIONS

- DELTA Duplex Fuel Gas Filters** are widely used in various applications including
- Upstream of **Gas Engines** to protect engine from dirt and liquid contamination
 - Before **Gas Fired Boilers** to improve the gas feed quality
 - At the inlet of **Gas Turbines** wherein high degree of fuel gas is a must
 - Suction of **CNG Gas compressors** to protect compressor internals



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