

JONELL SYSTEMS

DRY GAS FILTERS

Flange-to-Flange Solutions™



UNDERSTANDING THE ROLE OF DRY GAS FILTERS

The function of Dry Gas Filters (also known as Gas Particulate or Dust Filters), is to remove solid contaminant from natural gas, where no liquid is present. Equipped with high-efficiency synthetic cartridges, this vessel offers an efficient method of filtering small-to-moderate quantities of solids to protect essential equipment in pipeline applications.

Major Applications of Dry Gas Filters:

- Downstream of dry desiccant beds
- Downstream of catalyst beds
- Metering and gate stations
- Fuel gas to compressors
- Protection of regulators and valves

Contaminants Filtered by Dry Gas Filters May Include:

- Catalyst fines
- Desiccant particles
- Dust
- Pipeline scale
- Sand and silica

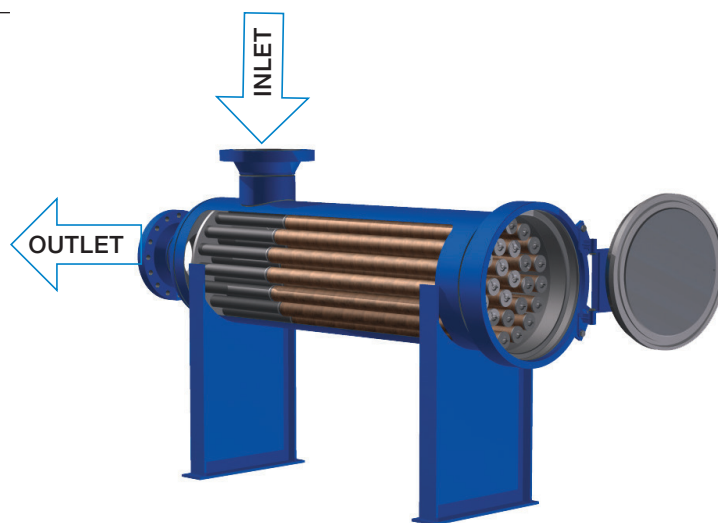
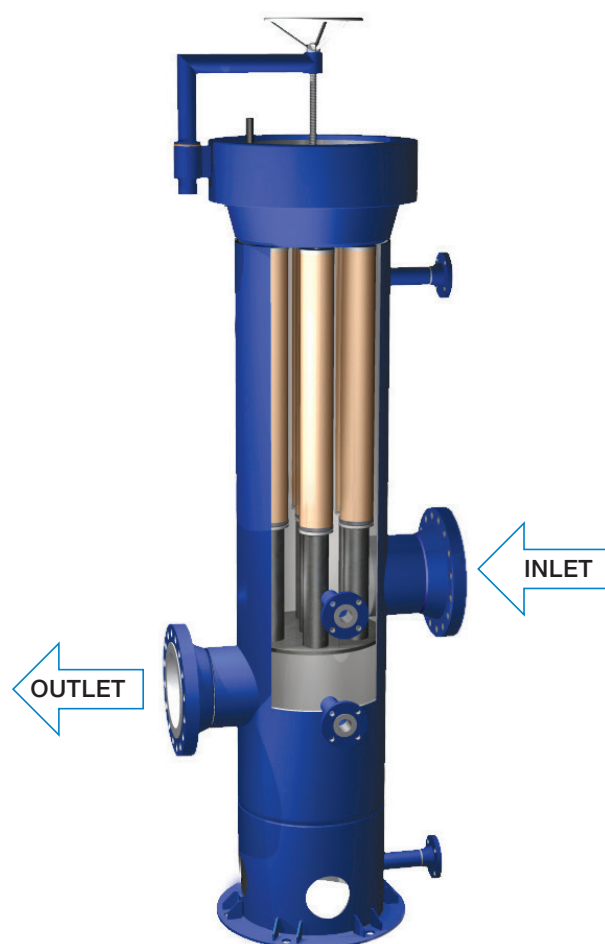
Jonell Systems Gas Particulate Filters are available in a vertical or horizontal configuration in a wide range of sizes to suit every application.

UNDERSTANDING THE DRY GAS FILTER

How it Works

Natural gas enters the vessel through the cartridge compartment. The flow direction is outside-to-inside through the filter elements, which allows for maximum usage of the filtering media. A number of crucial design aspects include nozzle positioning, filter element spacing, pressure drop, nozzle and riser velocity. Positive element seal and riser open areas are important aspects of the design.

Units are constructed to ASME code requirements and can be furnished with a variety of quick opening closures and various element styles to suit most application.



Cartridge Selection

The standard cartridge for a Jonell Systems Dry Gas Filter is the high efficiency JPME pleated synthetic series cartridge. The cartridge is designed with an inner and outer core to protect against erosion in high flow applications for maximum solids loading capacity. A micro-glass depth cartridge for shear sensitive solid contaminant and high temperature applications is available. Consult factory for non-standard requirements.

JPME SERIES

Material of Construction	Polyester
Maximum Temperature	240°F
Minimum Temperature	-60°F
Change Out Differential	2 PSID
Collapse Pressure	>75 PSID
Available Micron Rating	0.5, 1, 10
Standard Sizes	312, 318, 324, 336, 536

JFG SERIES

Material of Construction	Fiberglass
Maximum Temperature	275°F
Minimum Temperature	-60°F
Change Out Differential	2 PSID
Collapse Pressure	>75 PSID
Available Micron Rating	0.5, 1, 5, 10
Standard Sizes	312, 318, 324, 336, 536

ABOUT US

Process Technologies is part of Filtration Group, the fastest growing filtration solutions company in the world. We work with upstream, midstream and downstream oil & gas companies to provide total filtration solutions from Jonell Systems and Facet. Our solutions lead the industry to improve safety, reliability and productivity and increase profitability. We have a wide range of vessels and innovative elements with multiple media options. Together, we are making the world safer, healthier and more productive.



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