



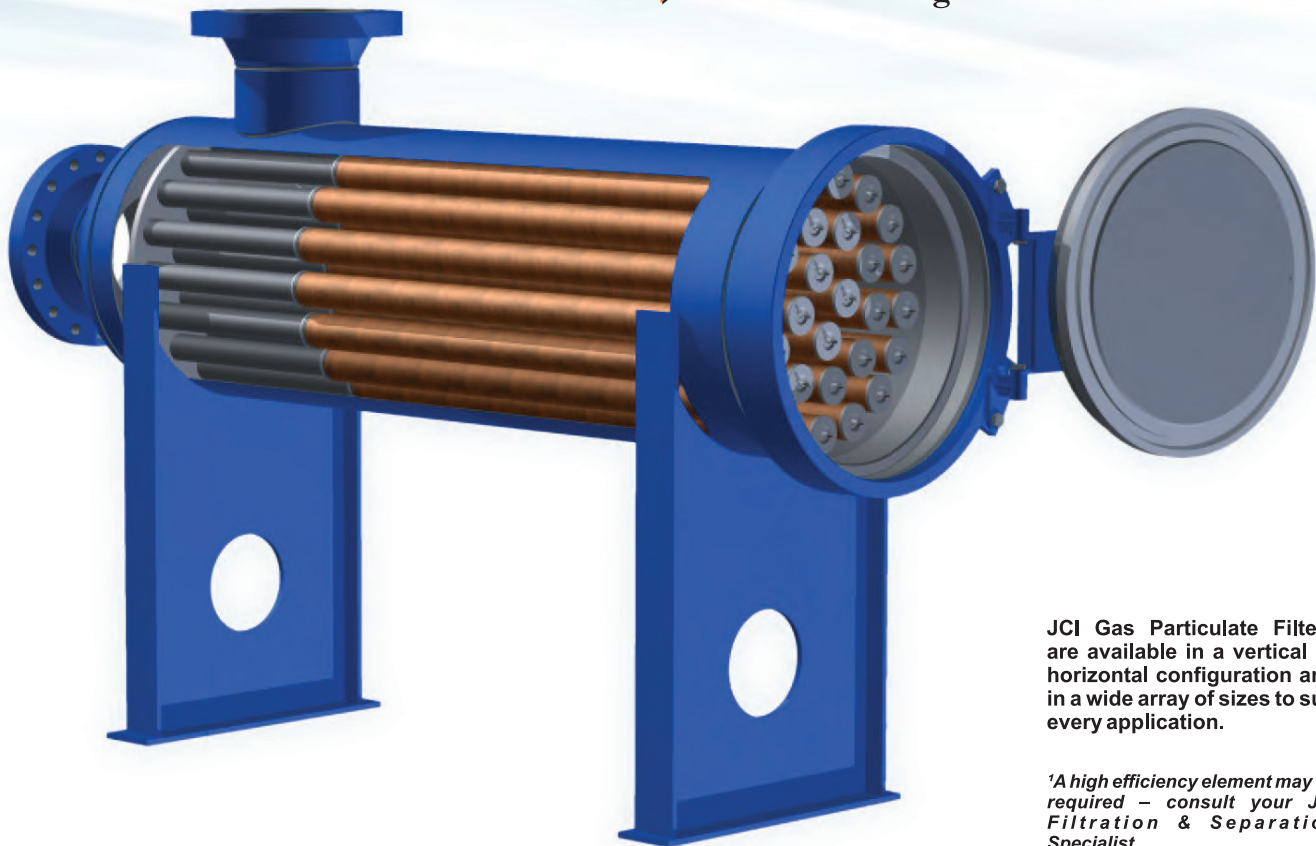
Gas Particulate Filters



Overview

The function of the **Gas Particulate Filters** (also known as Dry Gas or Dust Filters) is to remove solid particulate from natural gas, in which no liquid contaminant is present. Equipped with high efficiency cartridges, this type of vessel offers an efficient method of filtering small to moderate quantities of solids to protect critical equipment or remove carryover contaminant from various processes, which may include:

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



JCI Gas Particulate Filters are available in a vertical or horizontal configuration and in a wide array of sizes to suit every application.

**A high efficiency element may be required – consult your JCI Filtration & Separation Specialist.*

The contaminant filtered by a Particulate Filter may include:

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

How It Works

Natural gas enters the vessel via 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 and flux rates. Positive element seal and riser open area are also crucial aspects of Dust Filter 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 any application.

Element Selection

The standard element for a JCI Gas Particulate Filter is the high efficiency JPME pleated polyester media for maximum solids loading capacity. The cartridge is designed with inner and outer cores to protect against erosion in high flow applications, available in carbon or stainless steel. A micro glass depth element for shear sensitive contaminant and high temperature applications is also available. Consult factory for non-standard efficiency requirements.



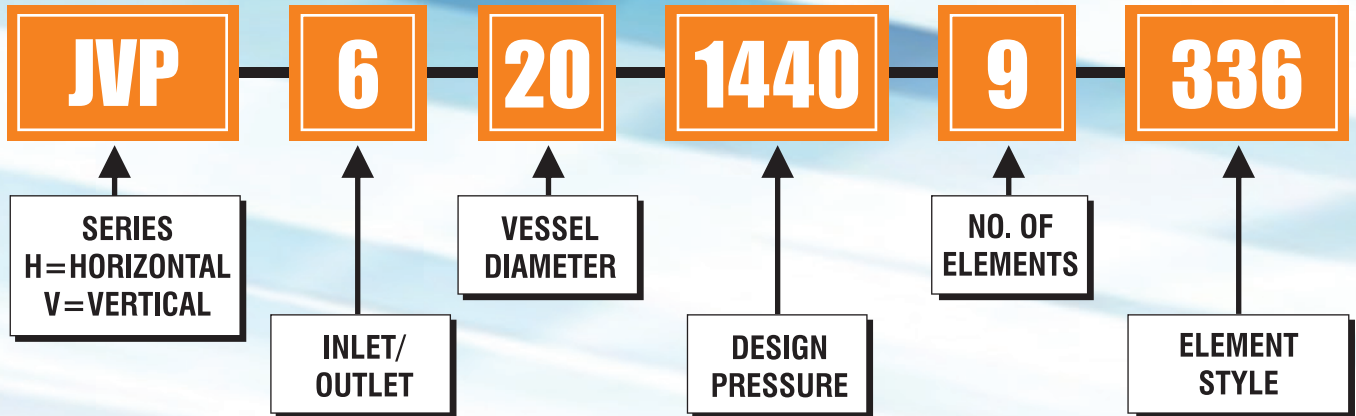
JPME SERIES

Material of Construction	Pleated Polyester
Maximum Temperature	240°F
Minimum Temperature	-60°F
Change Out Differential	15 PSID
Collapse Pressure	>75 PSID
Efficiency Rating	0.3, 0.5, 1, 5, 10
Available Sizes	312, 318, 324, 336, 536

JFG SERIES

Material of Construction	Fiberglass
Maximum Temperature	275°F
Minimum Temperature	-60°F
Change Out Differential	15 PSID
Collapse Pressure	>75 PSID
Efficiency Rating	0.3, 0.5, 1, 5, 10
Available Sizes	312, 318, 324, 336, 536

Vessel Nomenclature



Inquiry Information

As a minimum, the following information is required for all Coalescing Filter sizing and pricing inquiries:

- Gas volumetric flow rate
- Gas specific gravity
- Gas operating pressure range
- Gas operating temperature range
- Type of contaminant to be filtered
- Amount of entrained solids (if available)
- Type of application
- Vessel design conditions, including pressure, temperature and corrosion allowance

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