

## Dry Gas Filters: Effective & efficient removal of liquids/solids from gas flows

Grand Prix range of Dry Gas Filter is multiple elements filter designed for filtering dust and other solids from gas flows with a minimum of pressure drop.

### Principles of Operation

Grand Prix Dry Gas Filters offer efficient and effective removal of dust and other solids from gas flows at relatively low pressure drop. The larger, heavier particles settle to the bottom of the inlet chamber upon entering. The gas then passes through the filter elements which trap and retain the finer particles. A 'Quick Opening End Closure' is provided for access to and cleaning or replacement of the filter elements. The life cycle of the filter is dependent upon dust and dirt loading and the corresponding increase in pressure drop.

### Performance

#### Efficiency

Efficiency of the Dry Gas Filter is largely a function of some critical parameters viz. particle size and distribution, particle loading, element face velocity and pressure drop. Units are available for line size up to 40 inch, 1500# and with solids removal up to 0.3 micron.

#### Pressure drop

Grand Prix Dry Gas Filters are designed for pressure drops ranging from a few inches of water to several psi, depending on application. The pressure on most applications will range between ¼ and 1 psi. Filter elements should be cleaned or replaced when the pressure drop exceeds 15 psi. Pressure gauge connections are provided for monitoring pressure drop.

### Features: Design & Construction Advantages

#### Standard Configurations

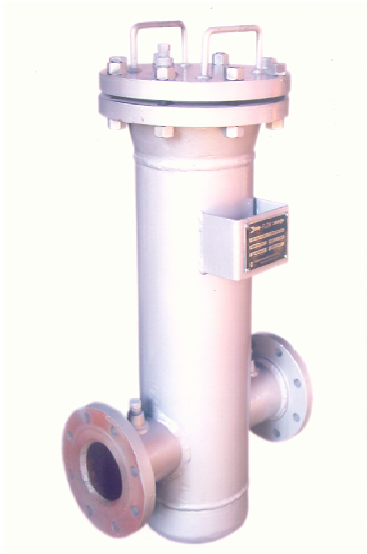
Grand Prix Dry Gas Filters are available in a variety of sizes and configurations to meet virtually any piping configuration.



#### Mechanical Features

- ASME Pressure Vessel Code, Section VIII, Div.- 1, U Stamped and Div. 2 U2 Stamped.
- National Board or IBR certified
- Standard Filters are constructed of carbon steel (NACE or HIC Tested), however, Filters can be custom designed and built from stainless steel and other steel alloys.
- High efficiency Elements can be either in carbon steel or stainless steel construction.

## Dry Gas Filters



The resulting clean process stream tends to extend the life cycle of compressor valves, and reduce downtime and maintenance costs.

### Applications

The Grand Prix multiple-element Dry Gas Filters can be used to remove dust and other solids from gas streams in chemical plants, pipeline stations, gasoline plants, refineries and other gas processing applications.

Dry Gas Filters protect meters, regulators, valves and other related in-line equipment, by effectively removing unwanted particles from the gas stream.

For more information on other Grand Prix products viz. Pressure Vessels, Strainers, Cartridge Filters, Cyclone Scrubbers, Gas Separators, Filter Separators, Silencers and Skid Mounted Packages contact:

**GRAND PRIX ENGINEERING PVT. LTD.**

Plot No. 82 , Sector 25, Faridabad, Haryana-121004, INDIA

Tel: +91-129-4151820/4097700 Fax: +91-129-4151821

E-mail: [mail@grandprixfilters.com](mailto:mail@grandprixfilters.com); Website: <http://www.grandprixfilters.com>