Dry Gas Filter

Dry Gas Filters is filtering unit of the gas pipeline or gas processing facility where no liquids (slug) of the flow stream are presented, but solids are presented. It is commonly horizontal vessel with filter cartridges inside. Solid removal efficiency is 100% when size of solids is 10 microns & larger, and 99%, when size of solids are 1-3 microns. In comparison, filter separator can handle the solids.

Design and equipment composition of field treatment and processing facilities, as well as transport pipelines, depend on the type of gas reservoirs. Some fields produce saturated associated gas (gas associated with crude oil), while fields produce a dry gas (free gas). As gas comes out from reservoir through special tubing and pipes, gas flow contains solids after passing removal of mist, which gas to be filtered before gas is supplied to valve and metering units. In this case, dry gas filters are required.

Features
- Skid-mounted
- Flanges
- Quick Opening Closure
- Customized capacity ratings
- Sour service
- Controllers and indicators
- Flow control equipment
- Durable internals
- High-efficient filter elements
- 3-layer coating
- Insulation
- Fireproofing
- Electrical and signals lines

Benefits
- Efficient liquid removal
- Efficient solids removal
- Safe operation
- Fast and easy filter cartridge replacement
- Easy maintenance
- Outdoor installation
- Adequate piping arrangement
- Spare filter elements and parts
- Space-saving
- Onshore and offshore application
- Corrosion resistance

Code & Standards
- ASME Sec VIII, DIV 1
- ASME BPVC
- ISO 8573
- EN 10204 type 3.1
- API 14C (for offshore)
- ASME B16.5 and ASME B16.47

Testing & Inspection
- Non-Destructive Examination (NDE)
- Radiography (RT)
- Ultrasonic
- Magnetic Particle
- Dye Penetrant
- Function Test (for Closures)
- RMI Test
- Impact Test
- RWHT
- Special Heat Treatment
- Material Certification
- Hydrostatic Test
- Coating test & inspection

Application
- Gas pipelines
- Gas field treatments
- Metering & regulating stations
- Petrochemical plants
- Gas processing plants
- Chemical processing plants

Working Media
- Natural gas
- Methyl Chloride
- Methane
- Hydrogen
- Propane
- Propylene
- Helium
- Halocarbons
- Ethylene
- Ethane
- Carbon Monoxide
- Carbon Dioxide
- Ammonia
- Biogas
- Air

Basic specification
- Vessel ID: 150-1350 mm
- Flow rate: 1100-27000 Nm3/h
- Number of filter elements: 1-105