

## II. GAS PROCESSING

### 2.1 Single (or Multi) Cyclone Separator

#### Technical index

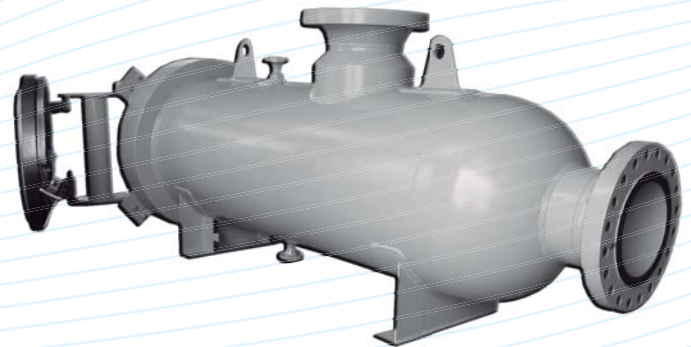
- Removes up to 95% of droplets and solids of 10 mm and up from gas streams for the single cyclone separators.
- Removes up to 99% of droplets and solids of 5mm and up from gas streams for the multicyclones separators.
- Improve the efficiency through optimum combination of the multicyclones (plug some of the cyclones per the working condition) to distribute the gas stream evenly.
- Design Codes: ASME, API and NACE etc.
- Design Pressure: 1.6 to 18 MPa.



### 2.2 Filter Separator

#### Technical index

- Remove up to 99.99% of solids of 0.5mm and up.
- Remove up to 99% of droplets of 1 mm and up.
- Normal pressure drop is less than 10 KPa.
- Incinerable — (CO<sub>2</sub> + Water) Trace ash & no plastic residue
- Ease of disposal: crush, shred, chop, etc.
- Second stage separation—vanes and or wire mesh per the working condition.
- Full End Quick Opening Closure—easy for replacing the elements and maintenance.
- The intellectual pressure differential transducer displays the situation of the elements on site and it also has the functions of remote data transfer and alarm.
- Design Pressure: 1.6 to 18 MPa.



### 2.3 Molecular Sieve Tower

#### Technical index

- Gas processing capacity  $300 \times 10^4 \text{ Nm}^3/\text{d}$
- Operating pressure: 8.0~11.0 MPa
- Operating temperature: 45~60 °C,
- H<sub>2</sub>S content in the inlet natural gas: 2.5% (mol)
- Water content in the outlet natural gas: 0.1ppm
- Dew point for the outlet natural gas:  $\leq -70 \text{ °C}$

