

**VACUUM GAS VALVE**

The valve consists of light welding structure which includes a swivelling flap closing the suction duct or leaving it completely free in its open position.

The swivelling actuator is pneumatic and assembled at the outside. After flap opening, a protecting ring is swivelled over the gasket seat thus protecting it against the hot dust laden and high speed gas flow.

During this swivelling procedure of the protection ring nitrogen is blown on the water-cooled gasket seat. The flap valve has a dust collecting outlet and is accessible from the side by a cover.

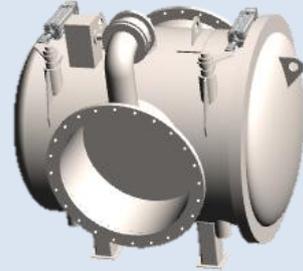
The flap valve is to be opened via a small by-pass valve in order to care for the pressure equilibrium between the atmosphere and the filter that is kept under vacuum.

This is of great advantage since during this pressure equilibrium the flow speed in the main duct is about 50 times lower than in the by-pass duct such that the dust transport that is detrimental to the gasket does not take place.

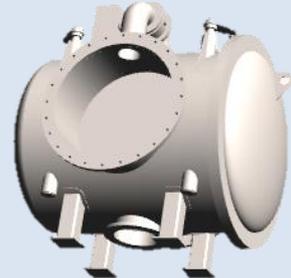
**VACUUM BAG FILTER**

Our dust filter is based upon the proven design of many filters for vacuum steel degassing plants:

- Proven sleeve design and material
- Uniform gas flow to the sleeves
- Efficient cleaning of sleeves by pulsejet cleaning with nitrogen
- Easy inspection of status of sleeves
- Easy exchange of sleeves
- Dust collection in a bin
- Dust extraction either by bin exchange at any time or by pneumatic conveying
- Low pressure loss thanks to on-line cleaning in a twin filter layout
- Low filter volume with high filtering surface
- Raw gas valve designed for resistance to hot gases and high velocity dust
- No ignition of residual incandescent dust on the sleeves
- Possibility of on-line filter cleaning



Gas Valve



Vacuum bag filter