Dustproof, pressure and vacuum-tight seal for silos, vessels and pipelines, special design for bulk solids

Advantages:
- Ready-to-install due to the electro-pneumatic installation, completely installed
- TÜV-certified and approved as per pressure equipment directive 97/23/EC
- Simple, cost-effective assembly
- Less installation height
- Gasket easily to replace due to the vertically split housing
- Easy-to-maintain
solids Butterfly Valve
Types DKH, DKP

Characteristics:

Sizes: DN80, 100, 125, 150, 200, 250, 300, 350, 400, 500.

Section through the butterfly valve
Sealing element of the closed valve pneumatically pressed

Sizes: DN80, 100, 125, 150, 200, 250, 300, 350, 400, 500.
Functional description of the pressure-tight version (see functional diagram):

- Normal position: valve closed, pneumatic sealing not pressed (i.e. the solenoid valve (MVH 3/2) is in the relieve A-R position, limit switch at the “Close” position is actuated. Pressure switch (PS) indicates “Pressure <2 bar”.

- Opening process:
The release signal to open the valve has to be sent not before the pressure switch (PS) indicates “Pressure <2 bar”.
The solenoid valve (MVH 5/2) actuates the cylinder, the valve opens, the limit switch at the “OPEN” position is actuated.

Note: The valve is closed in case of power failure (safety position).

- Closing process:
The solenoid valve (MVH 5/2) is deenergised, the valve closes, the limit switch at the “Close” position is actuated, a release signal to press the sealing has to be sent.
The solenoid valve (MVH 3/2) has to be switched over: P - A, sealing is pressed, the pressure switch (PS) indicates “Pressure > 2 bar”
solids Butterfly Valve
Types DKH, DKP

Section:
Pressure-tight butterfly valve, type DKP, integrated into the pneumatic pressure vessel

Butterfly valve, type DKH, manually operated: