



CLAUDIUS PETERS

# Components

## Rotary Gate

The Claudius Peters Rotary Gate is installed in vertical falling routes of pneumatic conveying systems to guide and control the mass flow.

One basic device can be supplied with different drive variants such as:

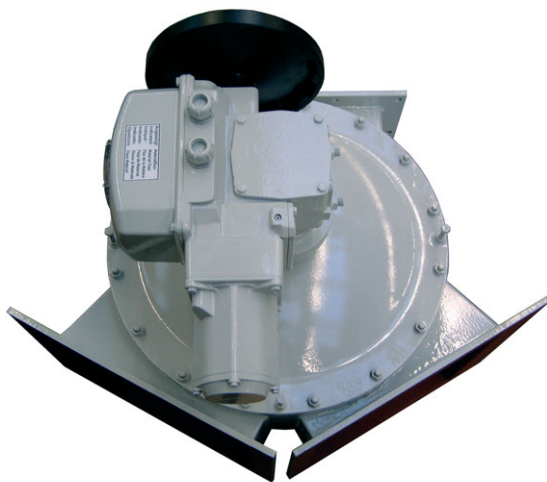
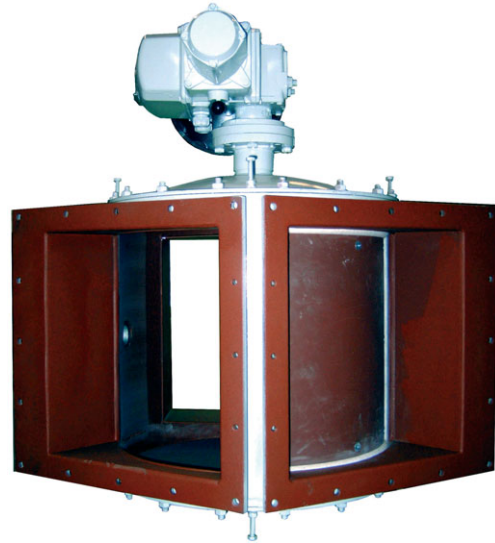
- H (manual),
- P (pneumatic drive)
- M (motor actuator drive)

The drive is flanged directly to the rotating shaft, resulting in the highest safety possible by omitting the rods.

The drives are designed with sufficient reserves so that even under aggravated conditions a safe operation is ensured.

The Claudius Peters Rotary Gate consists of a cylindrical housing. Sealing of one outlet each is carried out by an adjustable gate. By turning the drive shaft, the gate shifts from one material outlet to the other. A flexible sealing, which is pressed against the housing wall by a compression spring, provides a dust-tight sealing of the locked outlet.

The drive is equipped with integrated micro switches which guarantee a safe positioning of the sliding gate.



### Advantages of Claudius Peters Rotary Gate

- Compact drive unit incl. all necessary monitoring devices
- Alternative feeding of two vertical material routes
- Dust-tight sealing of the closed outlet, even if the wear of the sealing increases
- Low flow resistance
- Simple replacement of wear parts
- Long service life
- High flexibility due to the modular design
- Manual adjustment for emergency operation

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## Intelligent maintenance concept

For cleaning of the rotary gate and for inspection of the gate sealing, the housing is equipped with a large inspection cover. Replacement of the wear parts (wear plate and gate sealing) can take place while the rotary gate remains installed by disassembling the drive cover or the opposite inspection lid.

Lubrication of the bearings or the drive is not necessary.

The end positions can be precisely adjusted and can be indicated by limit switches integrated in the drive.

## Process Technology

The material falling vertically is guided to the free outlet via the wear plate inclined by 45°. The sealing of the gate is covered by the gate on all sides so that the sealing is protected optimally against the wear caused by the bulk material flow.

The motor-driven variant is equipped with a handwheel and, if requested, with an integrated drive control system. The drive control includes an interlockable local control box and reverse contactors.

The pneumatic drive variant can also be adjusted manually by means of a wrench via a square.

## Summary

Due to its modular and dust-tight design, Claudius Peters Rotary Gate is excellently suited for use as a branching and distributing device in pneumatic conveyor systems. The gate is characterized by high availability, long service life of the wear parts and easy maintenance.

Suited for all types of regular drives, the Claudius Peters Rotary Gate can be easily integrated in all plants.

The possibility to position the electric drive control with local control panel directly at the actuating drive allows for a simple and low-cost integration in the plant master control.



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*Due to the policy of continued improvement, we reserve the right to change any specification without prior notice.*

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