

# Axial Choke Valve

Symmetrical flow path shaped for erosive applications

## Type designation

Choke (control) valve

## Mokveld model

RZD - R ..... - TC

## Sizes and pressure ratings

- Sizes 3" - 20"
- Rating ASME Class 600 - 2500 or API 3000 - 10 000
- Higher pressure ratings and larger dimensions upon request

## In preference to

- Angle choke valve (especially larger sizes)
- Rotating disc choke valve (angle and in-line)
- Conventional globe control valve (angle and in-line)
- Choke ball valve (in-line)

## Typical applications

- Oil & Gas Production
- Handling of untreated and wet gas
- Joule-Thomson
- Optional Emergency Shut Down (ESD) configuration



## Mokveld axial choke valves main features:

### Axial flow

Streamlined flow path through full-port expanded body avoids turbulence and prevents vibration and erosion of body and trim parts. Its reliability reduces total cost of ownership and unplanned downtime.

### Availability

The Total Velocity Management® concept is an intelligent valve design that carefully manages fluid velocity in all areas of the valve, minimizing erosion in body and trim. This significantly increases production availability.

### Accurate control

Accurate control is possible (also with minimum opening) because of the fully pressurebalanced trim. Small, spring-opposed actuators can also be selected for large valve sizes.

### High turndown

High capacity and accurate control features make the valve appropriate for both start-up and well depletion production scenarios. One-valve solution for full process envelope. Large hole trims for dirty well clean-up service and high capacity trims for minimized pressure loss at well depletion stage.

### Compact

As a result of the low actuation force requirement, small actuators can be used; combined with a compact valve body design this minimizes the installation's footprint.

### Process safety

Sometimes, a choke is considered as a safety device to prevent overload of the relief system. In this axial choke the Tungsten Carbide cage is inherently protected against direct impacts by foreign objects.

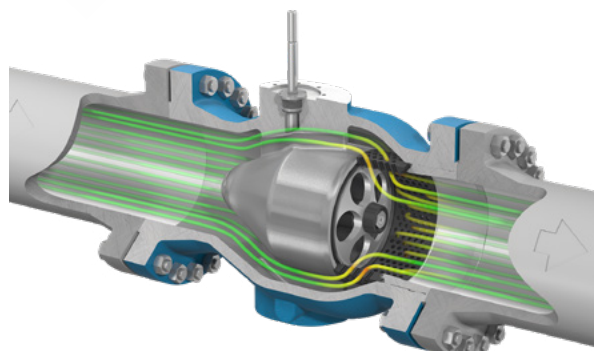
### ESD configuration

The self-energising sealing system offers reliable bi-directional and bubble tight shut-off. Therefore the axial choke valve can also be configured for Emergency Shut Down with quick and dependable valve closure.

### Special features

- Custom-designed valve, trim and actuator for each unique choke application.
- Wide variety of liquid, gas and multi-phase trims in linear and equal% execution.
- Low fugitive emission: Tightness class B certified conform ISO 15848-1 (optional).
- Fire safe design.
- Full range of matching Mokveld pneumatic and hydraulic actuators with tailored control arrangements is available. Electric and electro-hydraulic actuation is also available.

**For more information, please contact Mokveld.**



Mokveld Valves BV, experts in axial valve systems.

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