

# Axial Control Valve

Streamlined flow path design for demanding applications

## Type designation

Control valve

## Mokveld model

RZD - R...

## Size and pressure ratings

- Sizes 2" - 72"
- Rating ASME Class 150 - 2500 or API 3000 - 10 000
- Higher pressure ratings upon request

## In preference to

- Conventional globe control valve
- Heavy-duty ball control valve
- Angle control valve

## Typical applications

- Special control
- Severe-duty (axial choke valve)
- Anti-surge / recycle control
- Anti-cavitation / Joule-Thomson



## Mokveld axial control valves main features:

### Axial flow

Streamlined flow path through full-port expanded body avoids turbulence and prevents erosion and vibration. Process downtime and maintenance costs are reduced.

### Unique TVM®

Total Velocity Management® concept: intelligent valve design that carefully manages fluid velocity in all areas of the valve.

### High capacity

The inherent capacity of the axial valve is very high compared to conventional globe control valves and enables selection of smaller valve size. Alternatively the higher capacity can be used to minimize pressure loss or to provide for special control features.

### Accurate control

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

### High turndown

High inherent capacity and accurate control features make the valve suitable for applications that require high turndown, providing one-valve solution for the full process envelope.

### Silent

Streamlined flow path avoids turbulence and therefore energy conversion in valve body itself. Pressure drop is taken over trim only. Dynamic body noise is minimized.

### Compact

The one-piece valve body provides 20% - 70% weight reduction compared to globe valves. This feature is even more attractive combined with spring-opposed actuators.

### Special features

- Custom-designed valve, trim and actuator for each unique control application.
- Suitable for severe choke applications with Tungsten Carbide trim.
- Wide variety of high-capacity, low-noise and anti-cavitation trims.
- 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 electrohydraulic actuation is also available.

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

