

# Axial Surge Relief Valve

Snap acting surge protector for liquid applications

## Type designation

Surge relief valve

## Mokveld model

RZD - SR - R....

## Size and pressure ratings

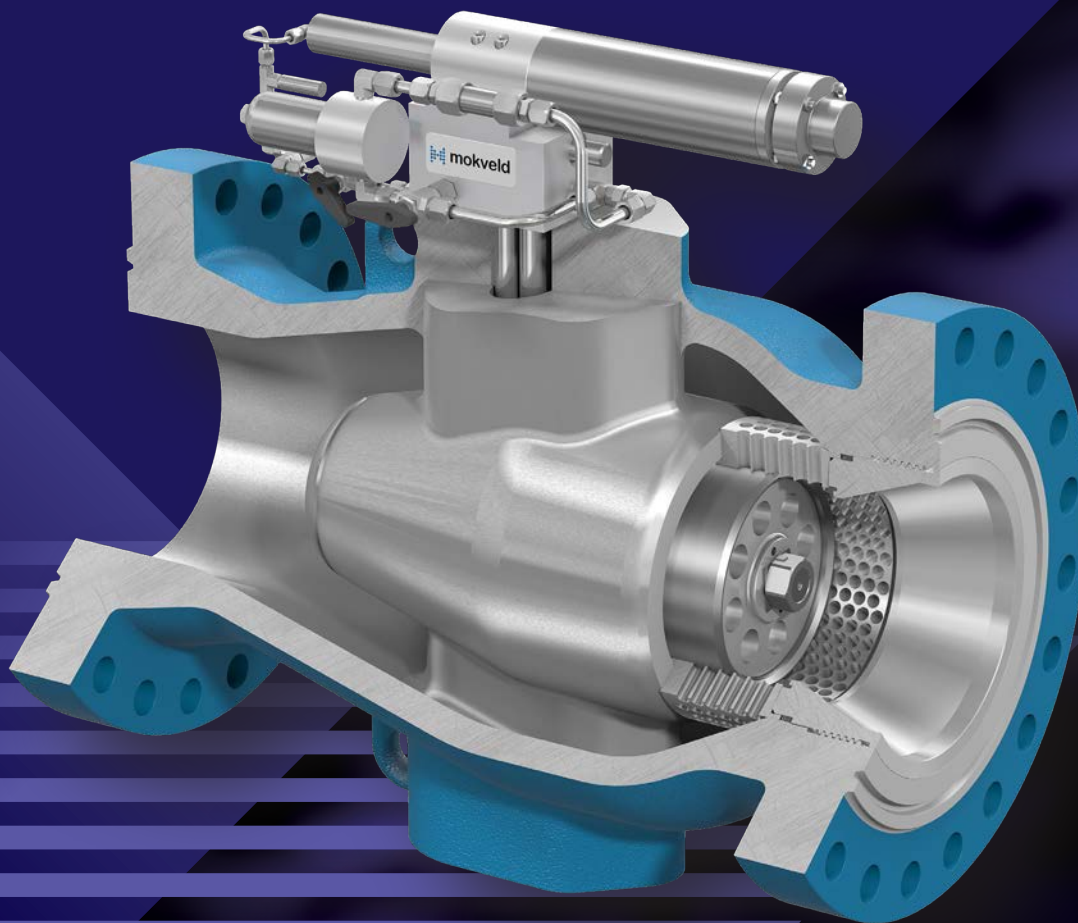
- Sizes 6" - 12"
- Rating ASME Class 150 - 900
- Higher pressure ratings upon request

## In preference to

- Nitrogen-compensated surge relief valve
- Flexible-sleeve surge relief valve
- Angle relief valve

## Typical applications

- Hydraulic pressure surge relief
- Transmission lines
- Oil tanker loading terminals
- Remote locations



## Mokveld axial surge relief valves main features:

### Quick response

The high-capacity proportional pilot design allows fast response to surge pressure. This results in prompt return to stable pressure conditions.

### High capacity

The capacity of the axial surge relief valve is extremely high: 50% - 100% increase compared to conventional globe. Consequently, reduced valve size can be selected.

### Unique TVM®

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

### No external energy

The pilot-type design eliminates the necessity for an expensive skid-mounted system with nitrogen bottles and associated temperature-compensating devices.

### Low-maintenance

Due to the absence of any external power supply such as nitrogen, maintenance is reduced to the bare minimum, making the valve ideal for remote or inaccessible locations.

### High-performance

Pilot and surge valve designs are based on simplicity. All components are field-proven to provide maximum protection reliability. They operate solely on fluid static pressure.

### Stable operation

The design of the pilot incorporates snap-acting opening when the set pressure is reached and automatic switching to control in the event of continuing high-pressure conditions.

### Special features

- Custom-designed valve, trim and pilot design for each unique control application.
- Sophisticated simulation models for the response to pressure surges are available.
- Anti-cavitation trims are available to avoid foam in spill tanks.

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

