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.