

# axial on-off valve

## product summary sheet

<b>Type designation</b>	On-off or isolating valve
<b>Mokveld model</b>	RZD - X
<b>Sizes and pressure ratings</b>	Sizes 2" - 72" Rating ASME Class 150 - 2500 or API 3000 - 10000 Higher pressure ratings upon request
<b>In preference to</b>	Ball valve Plug valve Gate valve
<b>Typical applications</b>	Quick-acting on-off (HIPPS) Severe-duty on-off (upstream) Flow line and header on-off Critical isolation, start-up and blow-down



## Mokveld axial on-off valves offer the following 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.
- **Low pressure loss** The capacity of the axial on-off valve is extremely high, as a result of which the pressure loss is negligible. Operating costs of pumps and compressors are reduced.
- **Pressure-balanced** Operating forces are independent of pressure. Valve can be opened against full differential pressure without damage to sealing. Equalisation with bypass valve is not required.
- **Easy actuation** Actuation force is low and constant because of pressure-balanced trim. Small, spring-opposed actuators can be selected and gearboxes are not required.
- **Excellent sealing** In the open position the main seal is protected against erosive flow. The self-energising sealing system offers reliable bi-directional and bubble-tight shut-off (class VI).
- **Compact** The one-piece valve body provides 15% - 60% weight reduction compared to ball or gate valves. This feature is even more attractive combined with spring-opposed actuators.
- **Fire-safe** The seals that prevent internal and external leakage are secured inside the valve body and therefore less susceptible to external heat sources. All axial on-off valves are certified fire-safe.
- **Special features**
  - Custom-designed.
  - Safety: secured process isolation by means of reliable on-off technology (HIPPS).
  - Very fast stroke times: 20" Class 1500 in less than 2 seconds.
  - Suitable for infrequent use: operating forces do not increase over time. No sticking.
  - 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 detailed information, please contact Mokveld.