

Axial On-Off Valve

Product summary sheet

Type designation

On-off or isolating valve

Mokveld model

RZD - X...

Sizes and pressure ratings

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

In preference to

- Ball valve
- Plug valve
- Gate valve

Typical applications

- 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.
- Low fugitive emission: Tightness class B certified conform ISO 15848-1.
- 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.

