

# 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, ESD)
- 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.

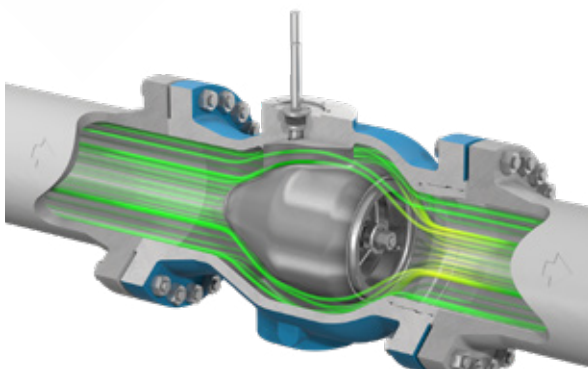
### Fire-safe

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 (optional).
- 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.**



Mokveld Valves BV, experts in axial valve systems.

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