

Subsea Axial On-Off Valve

Severe duty on-off valve for quick-acting safety applications

Type designation

Subsea shutdown valve or isolating valve

Model

RZD-OW-X

Scope

- Sizes 6" - 24"
- Rating API 3000 - 10 000
- Other pressure ratings upon request

Water depth

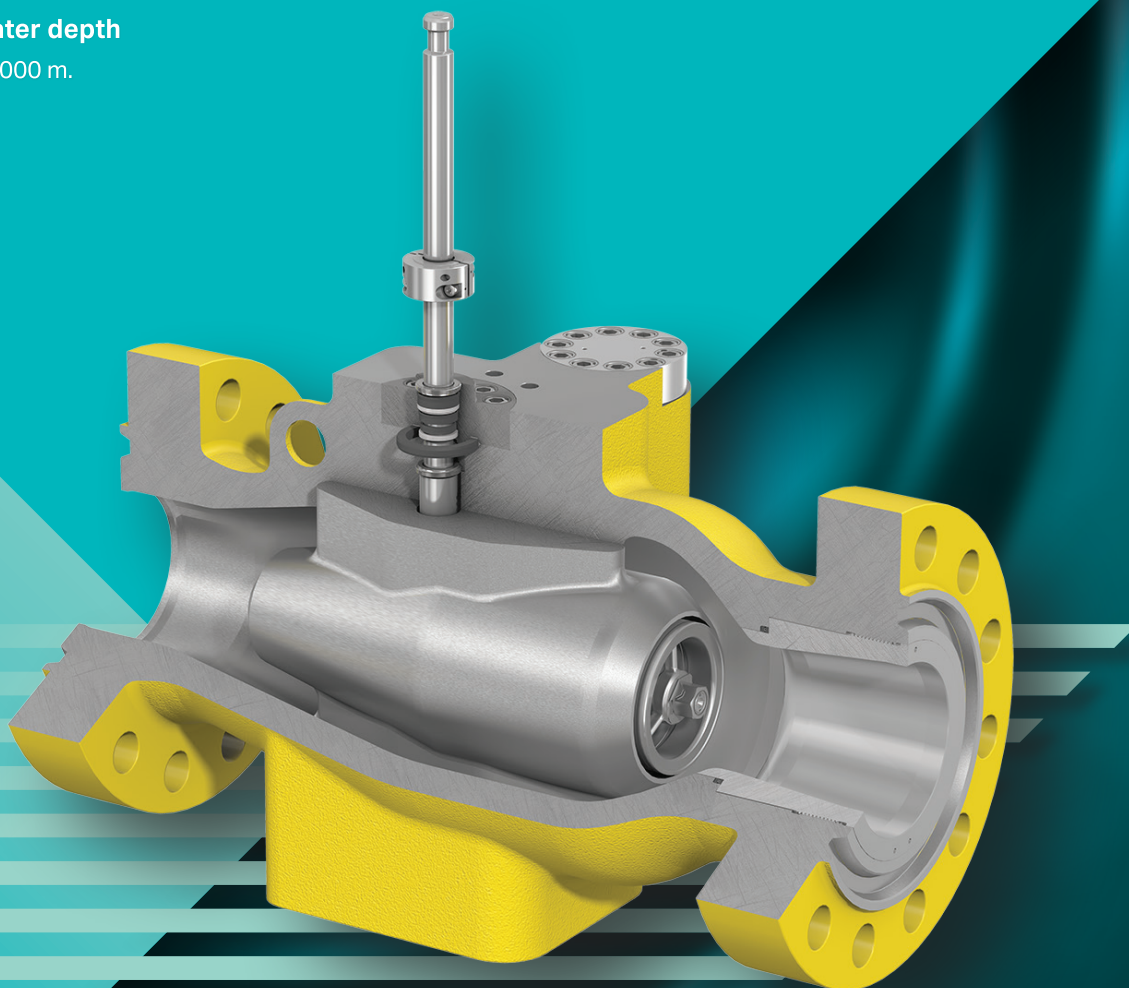
- 3000 m.

In preference to

- Subsea ball valve
- Subsea gate valve
- Subsea plug valve

Typical applications

- Subsea severe duty on-off (upstream)
- Subsea quick-acting on-off (HIPPS)
- Subsea critical isolation or start-up



Mokveld subsea on-off valves main features:

Subsea qualified

Successful qualification of components, compliance to PR2 testing, 500.000 stroke endurance testing without stem seal leakage, hyperbaric testing.

High reliability

The Mokveld subsea axial on-off valve complies with all requirements according to international safety specifications: IEC 61508, IEC 61511 and API RP 17Q, Recommended Practice for Subsea HIPPS. SIL certification issued by TÜV Rheinland emphasises the high reliability of the subsea on-off valve.

No by-pass required

Due to internal pressure balancing of the valve, the operating forces are independent of pressure. Valve can be opened against full differential pressure without damage to sealing. Equalisation by-pass valves are not required.

Axial flow

Streamlined flow path through full-port expanded body avoids turbulence and prevents erosion and vibration.

Low pressure drop

The capacity of the subsea axial on-off valve is extremely high, as a result of which the pressure drop is negligible. Operating costs of pumps and compressors are reduced.

Excellent sealing

In the open position the main seal is protected against erosive flow. The self-energising sealing systems offers reliable bi-directional and bubble-tight shut-off (class VI).

Actuator flexibility

The valve is suitable for a variety of linear subsea actuators. Designed for automatic operation with hydraulic or electric subsea actuators.

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.

Special features

- Custom-designed.
- Suitable for infrequent use. Operating forces do not increase over time. No sticking.

For more information, please contact Mokveld.

