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

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

Water depth
- 3000 m.
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.

**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).

**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 17O, Recommended Practice for Subsea HIPPS. SIL certification issued by TÜV Rheinland emphasises the high reliability of the subsea on-off valve.

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

**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.

**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.

**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.

For more information, please contact Mokveld.