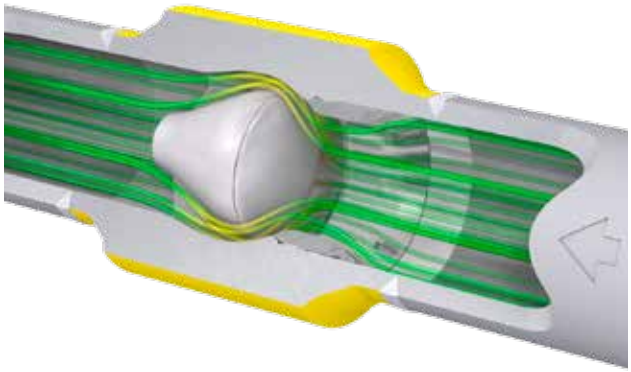
subsea axial check valve
product summary sheet

Type designation	Subsea check or non-return valve
Model	TKZ-Y
Scope	Sizes 2" - 24" Rating ASME 150 - 2500 or API 3000 - 15 000 Details about sizes and pressure ratings upon request
Water depth	5000 m.
In preference to	Swing check valve (including controlled closure devices) Dual-plate check valve Piston check valve
Typical applications	Critical compressor / pump protection Segmentation of interconnected injection / production lines Severe duty



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Mokveld subsea axial control 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 eliminated.
Low pressure drop	The full opening flow passage and high-pressure recovery of the venturi-shaped body result in very low pressure loss: reduced operating cost of pumps and compressors.
Easy opening	The low static pressure in the throat area is applied behind the disc and creates a pressure differential over the disc, resulting in easy opening.
Stability	Extremely stable during operation. The axial check valve responds smoothly to changes in flow and remains stable when it is supposed to be.
Non-slam operation	The spring-assisted design ensures ultra-fast closing without backflow and pressure surges, in critical applications such as multi-pump systems.
Tight shut-off	Tight shut-off is obtained by means of metal-to-metal sealing. This sealing is not affected by erosive flow.
Maintenance free	Internal construction is based on the application of sound basic mechanical engineering principles. Consequently, the axial check valve does not require any maintenance.
Special features	• Custom-designed valve to meet the clients specific process conditions. • Welding ends, hubs or flanges are possible, dependent on valve size, material, design pressure and temperature. • Optional: API 6A PSL3(G) and/or PR2 qualification. Several valve sizes / ratings / temperature ranges are PR2 qualified already.

For more detailed information, please contact Mokveld.

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