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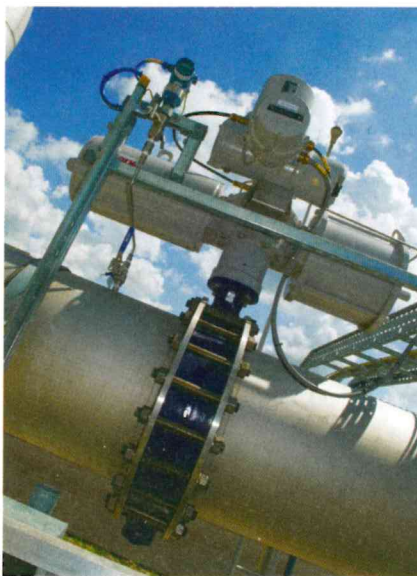
## Valve actuators selected for failsafe duty in China

**R**otork Skilmatic electro-hydraulic valve actuators have been ordered for increased safety Emergency Shutdown (ESD) duties on two new oil pipelines in China. Owned by the China National Petroleum Corporation, the Mahui and Yunnan pipelines are attached to the network bringing oil and gas to China from offshore fields in the Bay of Bengal.

The Skilmatic actuators will be installed in automated and unattended valve chambers at pump stations, where they will provide isolating and failsafe ESD functions. These valves, known as ROSOV (Remote Operated Shut-off Valves), are designed to isolate sections of the pipelines in the event of a potential emergency. By providing swift and accurate valve movement in one direction and very reliable mechanical spring return movement in the failsafe direction, Rotork's self-contained

electro-hydraulic actuator design is successfully utilised for this type of critical application in many countries.

The Skilmatic actuator combines reliable failsafe performance with the



benefits of Rotork IQ intelligent electric actuation technologies, facilitating remote supervision with a high level of asset management encompassing accurate control, monitoring and alarm signalling, operational data logging and diagnostics. The ESD function can be configured to operate on loss of mains power or control signal, with additional options including a second, independent ESD circuit and an ESD manual reset also available.

Designed for functional safety applications SIL 2 with a HFT 0 to IEC 61508:2010 the actuator is also offered with a partial stroke testing capability, enabling the valve to be function tested without interrupting the process. ●

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## Heat transfer hoses and double-jacketed hoses

**H**DM hose systems with DN 2 to DN 25 diameters are used to transfer viscous or gaseous media while maintaining constant temperatures. Depending on the application, this may require heating or cooling. Subject to consideration for temperature classes and ignition groups, the systems are also suitable for use in explosion hazard areas.

The double-jacketed HDM 95/200 hoses from Hillesheim actually represent a 'hose within a hose' system. The inner hose conducts the medium. It is completely surrounded by flowing heat carrier, for instance, water, steam, thermal oil, etc. This ensures optimal heat transfer throughout the entire length of the hose. Connections for the heat carrier are provided by special fittings at the side of both ends. The pressure-stable inner hose is preferentially fitted with pipe connectors for conventional threaded

olives. The HDM 95 series is suitable for applications to 95°C. The HDM 200 series can be used at temperatures up to 200°C. Hoses in the HDM 95/200 series can be fitted with thermal insulation to prevent heat losses; this consists of a robust outer jacket and end caps.



The HDM 60 (max. 60°C) and HDM 62 (max. 200°C) heat transfer hoses are built similar to electrically heated hoses. In these hoses the heating conductor is replaced by a wound hose in which the heat carrier flows. Heat transfer

hoses can be ordered with the heating carrier hose wound in bifilar fashion such that both the inlet and outlet connections are at one hose end. Types with through-flow heating carrier hose and connections at both hose ends are also available.

This arrangement permits 'series circuits' in which multiple hoses, or the heating of an attached tool can also be realised. Heat transfers are not entirely comparable with that of completely surrounded HDM 95/200 systems. However, HDM 60/62 hoses do have the advantage that leaks in the inner hose will not mix the medium with heat-transfer oil, thus there is no danger for the tempering device. ●

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