

CMMPI

CONTINUOUS MAGNETIC MOTION POSITION INDICATOR

PETROLVALVES has been developing valve solutions for critical applications for the Oil and Gas industry for more than 60 years.

With onshore and offshore development requiring constant and precise control of the position of the valve, new advanced technologies are needed to increase profitability, reliability, flexibility and performance of the production plant.

PETROLVALVES, a leading manufacturer of specialty valves for the oil and gas industry, was asked to develop a continuous control position indicator to be used on a subsea swing check valve, to constantly monitor the clapper and the stem position.

There were challenges to overcome in this design: no additional body penetration while give direct information of the clapper and the stem position of the valve.

The position indicator should be independent of the operator of the valve.

PETROLVALVES has developed the **Continuous Magnetic Motion Position Indicator (CMMPI)**: a subsea enclosed system to transfer the clapper and the stem motion from the inside of the pressure boundary of the valve, to the outside of the pressure boundary without requiring any additional body penetration than the standard required one.

The **CMMPI** has been subjected to a **qualification program** of more than 10,000 endurance cycles and an extended API 6A Annex F Design Validation Procedure **to guarantee the performance of the position indicator** under the most stringent condition.

As a conclusion of the **PETROLVALVES** effort to satisfy our customer, the **CMMPI** has been patented, **gaining the US patent number** US 9671040 B2 during the current year.