



Product Mini-Hermet Pressure Switch
Application Pig Launcher on Export Flow Line for Offshore Oil Production
Industry Oil & Gas

Challenge A large offshore Oil & Gas producer in the Middle East had a very critical safety application for a pig launcher on an export line. They needed pressure switches that would monitor the pressure of the bypass line valves in order to create an interlocking system that would insure that the associated pressurized vent, drain, outlet and inhibitor fill line valves are not able to be opened while the launcher is under pressure or containing process material. These switches would be the foolproof instrument on an application which already used a pressure transmitter and gauge. As the application contained a heavy amount of H₂S and was offshore experiencing salt water conditions, materials of construction had to be exotic materials such as Inconel and Hastelloy C, including the attached monoflange.

Solution SOR® eliminated other competitors by being the only bidder able to make the desired special alterations to standard products and provide a complete packaged solution for the customer. Other competitors were not willing or able to do this. SOR provided a special version of our standard Mini-Hermet Pressure Switch with wetted parts being Hastelloy C and all internal components being 316SS materials of construction. The housing, guide disc, piston assembly, spring, and switching capsule were all constructed using 316SS. In addition to our pressure switch, an Inconel 2" NB x 2500lb RTJ monoflange was also installed with our switch. The Inconel monoflange provided a block and bleed valve as well as a 1/2" 2500lb flanged vent connection. The end result provided the customer with the complete package of instrumentation they were wanting when no other competitor was willing or able to fulfill this special request. The customer was extremely satisfied with outstanding SOR customer service, engineering capabilities, and the willingness to go above and beyond to solve their problem.