

## excess flow valve QUALIFICATION

**PETROLVALVES** has been developing solutions for critical applications for the Oil & Gas Industry for over 50 years. Recently, working in partnership with one of our key strategic customers, **PETROLVALVES** was asked to design an emergency subsea overflow valve which must close automatically in the event of excess flow caused by a rupture in the subsea pipeline.

The valve is a 12" actuated side entry axial flow valve which is installed directly into the subsea pipeline. As such, the valve is exposed to the flow of the pipeline and receives its supply pressure for the actuator directly from the pipeline, thereby eliminating the need for any umbilical or external power supply.

This emergency overflow valve was required to have API 6A PR2 testing certification. The valve also was required to have Endurance and Hyperbaric testing in addition to extensive dynamic testing performed in an external flow loop to confirm the advanced Computational Fluid Dynamic (CFD) simulation parameters which were used to design the valve.

This very specific and unique application permits the customer to have an automatic control valve directly linked to the exact flow conditions within the subsea pipeline without the need for a costly umbilical or remote source.

