

Performance services

Performance Services is a service unique to Severn Unival. We have long term experience in critical valve failure analysis and in the design of suitably engineered solutions, that have a proven track record in delivering improved valve performance, longevity and value.

Severn Unival has an established reputation for providing our client with a service which understands the needs of operations & maintenance management.

- Understand the effects of critical valve failures on the production output or safety demands of a platform.
- Understand the time imperative associated with providing valve solutions to production assets.

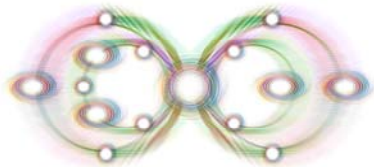
Behind this reputation is a strong technical service, delivered by a committed team of professional engineers, who have worked in the oil & gas, petrochemicals and power markets in construction, commissioning and operations & maintenance.

Performance Services - Front End Review

Key to any improvement strategy is a clear understanding of existing condition and performance. The Severn Unival Front End Review fits together a combination of different review capabilities.



From this information, the Performance Services team use our unique Repair Intelligence Circle[®] to bring together current information and long term knowledge and trends to provide the basis for our solutions & options.



The Repair Intelligence circle[®] has proven over the past 20 years to provide **long term solutions for control & choke valve performance issues and inventory decision making.**

Performance Service - Improvement Optioneering

With a definitive understanding of both need and condition, Severn Unival move forward with a programme of potential solutions.

There are two drivers for our optioneering process

- Technical justification
- Business case

Bringing the correct technical solution together with a business justification supports our client decision making.

Improvement Options may include :

- Simple overhaul or minor repair
- Loop management & re-calibration of instruments & positioners
- Re-specification of the valve to suit the known conditions and performance needs
- Re-design and re-sizing of the active parts – (trim assembly)
- Material upgrades
- Retrofit solutions cover all valve manufacturer products
- New Valve, Actuator and positioner options

To support this highly technical service Severn Unival has invested in the best available resource

- Experienced control, choke, ESDV and Safety valve design engineers.
- Experienced valve manufacturing, repair and process engineers.
- Our long term OPERA[®] valve knowledge process, which underpins all of our industrial valve performance history information.
- Transform – our valve asset management database
- 3d CAD design software c/w experienced draughting team.
- Failure mode effects analysis software
- Finite element analysis programming
- Computation fluid dynamics programming



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