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LNG is seen as a cornerstone fuel for Japanese energy companies and will continue to play a key role in supplying Japanese energy needs

GOODWIN AXIAL VALVE INTRODUCTION GATHERS PACE

By: Neil Frain, sales manager, Axial Isolation and Control, Goodwin International

After a successful product launch of our brand new range of actuated Axial Isolation and Axial Control Valves at both ADIPEC and Valve World (Dusseldorf) in 2016, Goodwin is now moving into the approval and qualification phase of our development.

National and international oil, gas, petrochemical and refining end users in the Middle East are of significant strategic importance to our plans. By engaging directly with these customers and showcasing our new product range, this approach is proving very rewarding with several product qualifications applied for and a number of others pending.

Whilst actively launching and showcasing the new product range, there has been considerable work undertaken at the manufacturing facility in terms of endurance, flow and acoustic testing.

Endurance testing

The focus of this test programme is on the durability of mechanical and sealing components.

The test valve is rapidly closed against flow, pressurised to generate differential seat pressure and then opened against differential pressure in order to simulate an ESD event. The stroke speed is <2 seconds which is in line with the typical requirements of High Integrity Pressure Protection Systems (HIPPS). The test valve is subjected to the same test over a large number of cycles in order to determine the expected life of the valve.

During this test, actuation forces and valve seat leakage are both accurately monitored to detect any sign of degradation. With the facility operating 24/7 in order to accelerate the mechanical ageing of the valve,

Goodwin is making rapid progress.

It is worth noting, that the principle of operation, actuation mechanism, body joint and sealing technology are common for both designs, therefore the durability and reliability of both platforms can be assured on the basis of the same testing regime. Indeed the Safety Integrity Level of the Goodwin Axial valves is assessed on the basis of these tests.

Capacity and acoustic testing

Additional to the endurance testing, the Axial Control valve is subject to further tests to determine the key characteristics of the valve in terms of capacity and noise.

The test is designed around IEC 60534 and focusses on improving prediction of in-service performance.

Optimisation of capacity, pressure control and noise for a given set of installed conditions is the key to ensuring that a

control valve is correctly selected for any given application.

All of the above testing has been conducted on bespoke in-house designed, manufactured and commissioned testing facilities. By conducting these tests in-house, Goodwin gains a deep understanding of the performance of the valves and can experiment with design improvements in shorter timescales and at lower cost.

Goodwin offers economical engineering solutions for standard and severe service applications, which require streamlined flow, precision flow control, high pressure let down and low noise. As such, the Goodwin Axial Isolation and Axial Control valves represent a logical choice for cost conscious customers who require competitive deliveries and pricing.

Goodwin will be available for discussion at both the GPA (Gulf Processors Association) and EIC Connect events in Abu Dhabi during May 2017. 📞

