Corporate Report

a report by
Swagelok Company

With headquarters in Solon, Ohio, US, the Swagelok Company is a major developer and provider of fluid system solutions, including products, assemblies and services for the research, instrumentation, pharmaceutical, oil and gas, power, petrochemical, alternative fuels and semiconductor industries. Its manufacturing, research, technical support and distribution facilities support a global network of more than 200 authorised sales and service centres in 54 countries. For more information about Swagelok, visit the company's website at www.swagelok.com.

Swagelok® fluid system components are used in all facets of offshore platforms, floating production storage and off-loading (FPSO), subsea control systems and onshore production, including pipeline instrumentation, gas compressor monitoring, fuel and lubrication systems and chemical injection systems.

For oil and gas exploration, drilling, production, downhole or refinery applications, Swagelok's components for instrumentation, sensor, and analytical and control systems provide the performance, quality and reliability these demanding environments require.

Our ever-expanding product line for the oil and gas industry includes the following product types:

- Swagelok tube fittings, available in alloy 825 and SAF 2507® super duplex stainless steel, for enhanced corrosion resistance in sour gas and subsea systems.

- Swagelok medium-pressure tube fittings provide waterproof connections in pressures of up to 15,000-psig (1034bar) in deep-water applications.

- Swagelock tube fittings are available in 316 stainless steel and are perfect for non-corrosive settings.

- Swagelok tubing is available in a variety of materials and sizes for short or long tubing runs.

- Swagelok double block and bleed valves provide a smooth transition from the process to instrumentation systems in a single, compact valve assembly.

Each one-piece forged body incorporates a primary isolation valve and a variety of secondary block-and-bleed valves to replace conventional multiple-valve installations. Benefits include fewer leak points and reduced size and weight compared to traditional systems.

- Swagelok F10 series have forged the body needle valves feature which can work pressures of up to 10,000psig (690 bar). Choose from straight, angle and oblique angle configurations. A non-rotating hardened needle provides positive shutoff.

- Swagelok process monoflange valves replace multi-valve assemblies with a single manifold. This compact design minimises potential leak points, reduces stress from loading and vibration, and can reduce installation and maintenance time.

- Swagelok pressure regulators provide accurate, consistent, delivery pressures to processes and equipment to reduce the likelihood of process variability and to protect sensitive equipment.

- Ten models of Swagelok pressure-reducing regulators, which provide accurate and consistent delivery pressures to processes and equipment, reduce the likelihood of process variability and protect sensitive equipment. Five back-pressure regulators provide consistent back-pressure control in a variety of analytical and process instrumentation applications. Two vaporising pressure regulators are available to vaporise liquid samples or preheat gas samples. Swagelok also offers a wide range of instrumentation ball valves that are used in a variety of applications, from analytical instrumentation to alternative fuels. Choose from a wide selection of standard products that offer versatility in sizes, materials, end connections and service options. Alternatively, choose a special

application valve to meet your specific need: steam, thermal, low-temperature, all-welded, rapid-cycle, plus chlorine or fire series.

- Swagelok pre-insulated tubing bundles can be installed more quickly and can provide more consistent thermal performance than field traced and insulated systems. The Swagelok tubing bundle is insulated with non-wicking, fibrous glass insulation and covered with a tough PVC or urethane jacket and provides process fluid freeze protection and process temperature maintenance, in a variety of analytical and process instrumentation applications.

- Swagelok pressure gauges and transducers can be mounted to Swagelok direct-mount manifolds, which offer isolation and venting capabilities. The pressure measurement device can be isolated from upstream process pressures when the instrument valve is in the closed position, and high pressures can be vented prior to disassembly for maintenance.

- Swagelok industrial stainless steel pressure gauges are available in general purpose, miniature low-pressure and solid-front safety models.

- Swagelok industrial thermoplastic process pressure gauges. Available unfilled or liquid-filled with glycerin, featuring a thermoplastic, turret-style case and blowout back for use in severe service.

- Swagelok industrial pressure transducers are available with a variety of pressure ranges, electrical connectors and output signals.

- Swagelok hose products include polytetrafluoroethylene-lined (PTFE), stainless steel braided, flexible metal, thermoplastic, conductive core and multi-purpose and are available in sizes up to two inches and 22mm in standard and custom lengths.

- Swagelok offers a variety of tools, from gap inspection gauges, leak detectors, tube cutters and tube benders to orbital welding systems to complete your installation needs. ■