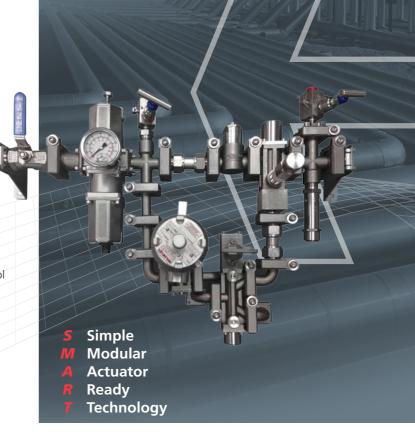
# **rotork**MIDLAND

The all new *SMART*-LOC<sup>™</sup> is a high integrity modular pneumatic actuator control assembly in 316L stainless steel, used for the control and sequencing of process valve actuators on oil and gas platforms / pipelines.

Whether it be a standard shut off circuit or an intricate control system, the new *SMART*-LOC can be tailored to meet the requirements of your project.

#### **Features and Benefits**

- Lower installed cost
- Lighter overall package
- More compact configurations
- Best in class flow capacities
- Easier maintenance clamp system
- Easier installation
- Broader configuration range
- Higher integrity from static o-ring seals
- No pipes and fittings
- Simpler auxilliary removal tanks, gauges etc.





Modular Pneumatic Actuator Control Assembly

## **Simpler Design**

Lighter, stronger and more compact than panel mounting and existing manifold products and incorporating the simple new clamping method, *SMART*-LOC provides a significant reduction in total installed cost in both OPEX and CAPEX over panel mounted assemblies.

#### **Simpler Maintenance**

Field maintenance is simple with the new *SMART*-LOC clamping method. Individual components can be quickly unclamped and replaced in the field for years of easy service.



Innovative clamping mechanism means quicker and simpler assembly and maintenance





#### **Tighter Sealing Capability**

The all new *SMART*-LOC incorporates o-ring sealed faces for higher integrity sealing surfaces and interfaces. This new system means that *SMART*-LOC will not leak, even under the harshest field conditions.

# **Broader Configuration Range**

New *SMART*-LOC dedicated components and proven valves (spool, poppet or direct acting), combine with our market leading filter regulators to allow Rotork Midland to offer both standard and the most complex of circuits. Incorporating standard length components, the manifold can be designed to suit the actuator.

#### **Lower Installed Cost**

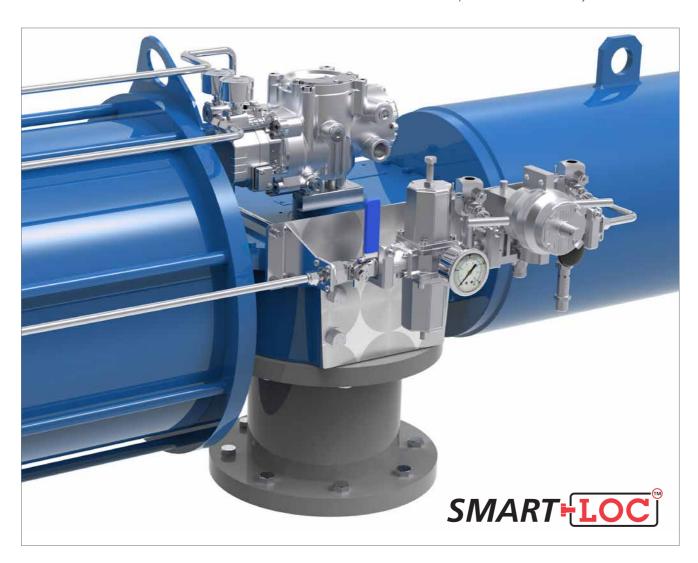
With its smaller footprint, the *SMART*-LOC modular system does away with complex labour intensive arrangements using panels, piping and additional fittings.

## **Easier Installation**

Each unit is supplied assembled and tested, ready to fit and operate. No design work is required from the contractor and all components are kept in stock resulting in very short lead times. *SMART*-LOC components are ideal for both hazardous areas and industrial use, with all relevant regional approvals. Units will interface with all global pneumatic actuators.

#### The Market Leader

Rotork Midland has over fifty years experience in stainless steel and pneumatic component manufacturing which has resulted in a market leading range of field proven, specialist products, renowned for their performance and reliability.





# **Modular Pneumatic Actuator Control Assembly**

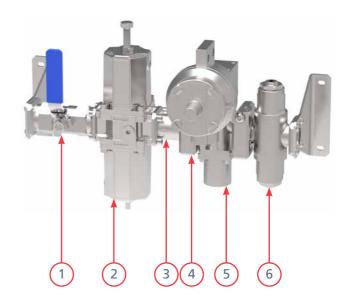
# **SMART-LOC Typical Manifold Configurations**

## SMART-LOC SM4 Style

Integrated components of the manifold include:

- 1 Isolation ball valve
- 2 Manual drain filter regulator
- 3 Non-return valve
- 4 SMART-LOC speed clamping system
- 5 Solenoid pilot operated 3/2 spool valve (spring-return)
- 6 Bi-directional speed regulator

The SMART-LOC SM4 supplies filtered regulated air to a single acting actuator. A solenoid valve controls application of the air to the actuator (supply of pressure or vent to exhaust), and the speed regulator allows adjustment of forward and exhaust air flow rates to achieve required open / closing speeds.

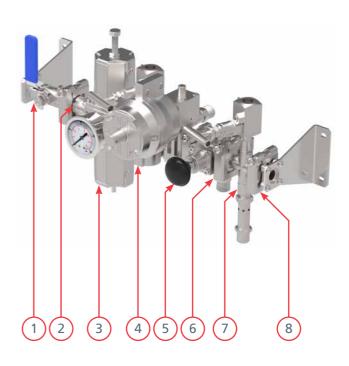


## **SMART-LOC SM7 Style**

Integrated components of the manifold include:

- 1 Isolation ball valve
- 2 Double non-return valve
- 3 Manual drain filter regulator with gauge
- 4 Instrument take off with block & bleed
- 5 Solenoid pilot operated 3/2 spool valve (spring-return) with adjustable exhaust flow regulator
- 6 Pad operated 3/2 spool valve with detent (padlockable) with adjustable exhaust flow regulator
- 7 Instrument take off with block & bleed, relief valve
- 8 SMART-LOC speed clamping system

The SMART-LOC SM7 supplies filtered regulated air to a single acting actuator; the solenoid valve controls application of air to the actuator (supply of pressure or vent to exhaust), the pad valve provides an override for exhaust/isolation function. Exhaust flow regulators allow independent adjustment of closing speed of actuator when commanded by solenoid valve or pad valve.







A full listing of the Rotork sales and service network is available on our website.

www.rotork.com

Patrick Gregory Road Wolverhampton WV11 3DZ

UK

+44 (0)1902 305 678 +44 (0)1902 305 676 fax email sales.midland@rotork.com

**Controls**Electric Actuators and Control Systems

Fluid Systems
Fluid Power Actuators and Control Systems

Gears

Gearboxes and Gear Operators

Instruments

Precision Control and Indication

**Site Services** 

Projects, Services and Retrofit

PUB116-002-00 Issue 11/14

As part of a process of on-going product development, Rotork reserves the right to amend and change specifications without prior notice. Published data may be subject to change. For the very latest version release, visit our website at www.rotork.com

The name Rotork is a registered trademark. Rotork recognises all registered trademarks. POWSH1114. Published and produced in the UK by Rotork Controls Limited. Registered office: Rotork plc, Brassmill Lane, Bath, BA1 3JQ, UK.

Scan with your smart phone for more information.

