



**rotork**<sup>®</sup>

Keeping the World Flowing  
for Future Generations

# Gas Distribution Overview



## Gas Distribution

**Working with production industries for more than 60 years, we have partnered with gas companies and legislative bodies to improve process efficiency, reduce energy consumption, maximise uptime and minimise pollution.**

Our products and flow control solutions are important components in all areas of gas distribution.

- Valve actuators are used for all types of valve operation including use in safety isolation applications
- Fail-safe flow control solutions are specified on safety critical systems such as natural gas storage tanks
- Precision instrumentation are used in applications such as metering and compressor stations
- Pipeline valve actuators are used in remote locations, using the product medium as the motive power source

Rotork products are known for accuracy and reliability, reducing process waste and increasing efficiency. Our reliability delivers longer product lifespans, reducing plant maintenance and increasing profitability. Rotork products pay for themselves many times over during their life cycles.

**This is why Rotork is specified as the flow control partner of choice for the oil & gas industry.**

# Understanding Your Challenges

**Working closely with gas distribution partners allows us to understand your business and know the challenges that you face.**

We are aware of the environmental, societal and legislative pressures that mean the gas industry has to improve its operational processes.

## Operational costs

Accelerating digitisation and automation of processes improves efficiency, reduces operational costs and positions distributors more competitively in a changeable market.

## Operational efficiency

The future of gas is uncertain beyond 2040<sup>1</sup> when zero emissions targets will be enforced. The gas industry must increase the efficiency of its existing infrastructure.

## Reducing pollution

Legislation means distributors must improve existing operations, replace inefficient equipment and introduce new technologies that identify fugitive emissions and leaks.

## Moving to zero emissions

We can help you reduce your emissions and achieve your targets. Zero emission targets for industry are fast approaching – The EU (2050), China (2060).

## Remote operations

Exploration in remote locations requires equipment to be self contained and not rely on supplied electricity or control air. Solar power allows remote electrical equipment to operate and communicate with distant control rooms.

## CO<sub>2</sub> reduction

We work with gas processing plants to reduce CO<sub>2</sub> output by replacing inefficient equipment and re-using CO<sub>2</sub> in ancillary processes, such as hydrogen production. This not only reduces CO<sub>2</sub> but creates new revenue streams.

## Life cycle management

Plant designers and managers can reduce the risk of equipment failure and obsolescence by utilising Rotork's advanced technologies and asset management systems.

<sup>1</sup>International Energy Agency; oxfordenergy.org



### GO gas-over-oil actuator

Reliable, heavy-duty valve actuators using pipeline gas as the motive power source



# The Importance of Flow Control

**Correctly specified flow control equipment can provide a safe working environment, increase process efficiency, reduce emissions and increase your profitability.**

Whether you are refitting an existing processing plant, installing a new compressor station or establishing a new production platform, your flow control solutions should be carefully considered and specified.

## Process efficiency

The ability to move quickly and precisely to a set position will make your process more efficient, minimise waste and reduce energy consumption.

## Repeatability

Many operations require valves and dampers to move repeatedly between set positions. Rotork electric actuators provide precise operation, with repeatability and resolution.

## Reliability

Flow control equipment should be specified correctly to operate in the chosen process environment. Our intrinsically safe products are certified for use in potentially explosive environments such as those found in gas industries.

## Safety

Emergency shutdown (ESD) systems are required throughout the gas industry to stop chain reactions and save equipment. Rotork products are certified for use within HIPPS, SIL, SIS, EIV, ESD and ROSoV applications.

## Reduced maintenance

Installing correctly specified and highly engineered solutions will reduce unplanned maintenance and plant downtime. Our intelligent diagnostics work with asset management systems to maximise plant uptime.

## Cost of ownership

Rotork products are designed and engineered to very high performance levels. They pay for themselves many times over during their life cycles.



### IQ electric actuator

Used widely in gas distribution for safe and reliable operation in all environments

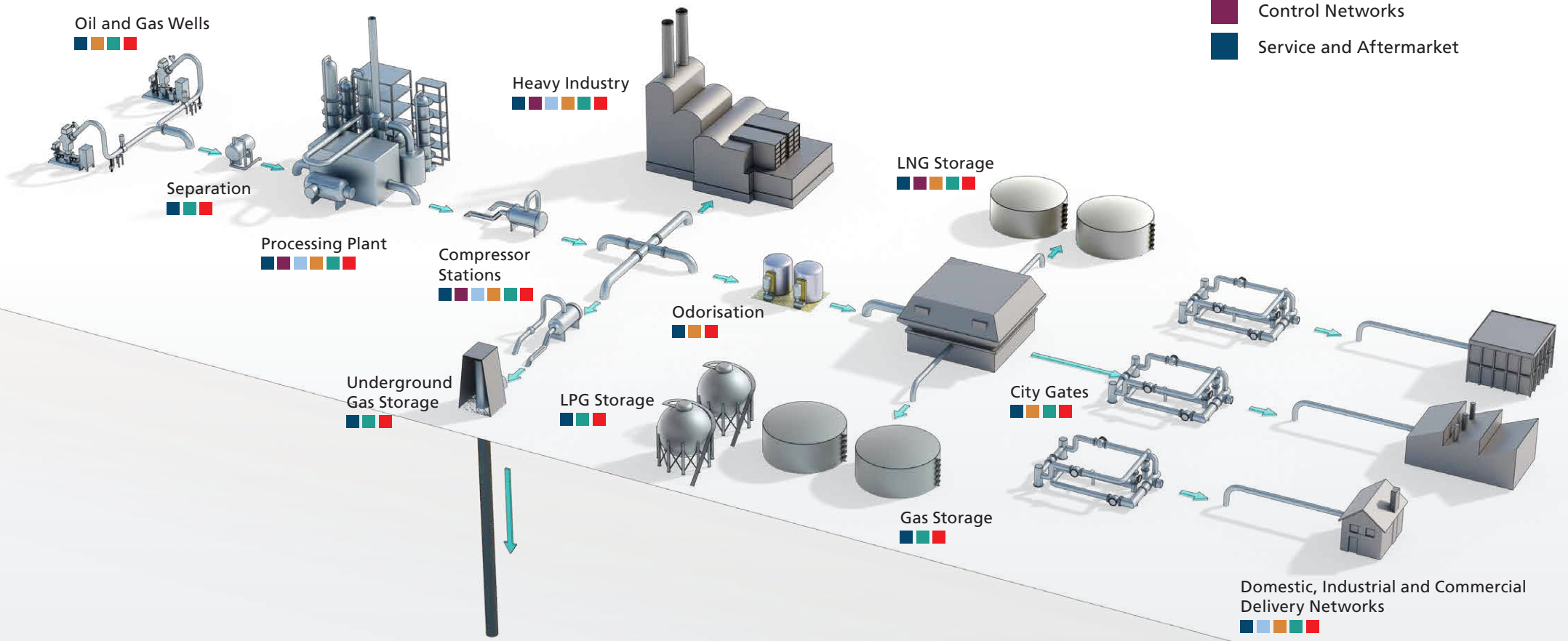


# Gas Distribution Processes

Rotork has extensive knowledge and experience in all aspects of gas distribution.

Our products can be found in almost every process control application throughout the gas distribution process, from exploration to consumer delivery.

- Electric Actuators
- Fluid Power Actuators
- Instrumentation and Control
- Gearboxes and Valve Accessories
- Control Networks
- Service and Aftermarket



# Product Solutions for Gas Distribution

Rotork design engineers work with plant managers, network systems engineers, legislative bodies and government environmental groups to specify and supply the correct solutions for your requirements.

Our extensive product range allows us to meet all your requirements and help you achieve your goals. For detailed application information see our Application Focus documents available on rotork.com

<p><b>Electric Actuators</b></p> <p>IQ Range – Multi-turn and part-turn actuators for arduous environments</p> 	<p><b>Fluid Power Actuators</b></p> <p>CP / GP Ranges – Scotch yoke actuators</p> 	<p><b>Instrumentation and Control</b></p> <p>PAX<sub>1</sub> – Motorised pressure regulators</p> 	<p><b>Gearboxes and Valve Accessories</b></p> <p>Hand Operated – Part-turn and multi-turn worm gear operators</p> 	<p><b>Service and Aftermarket</b></p> <p>Lifetime Management</p> 
<p>ExMax Range – Explosionproof part-turn actuators</p> 	<p>GO Range – Gas-over-oil powered actuators</p> 	<p>Limit Switch Boxes – High visibility position indication and control feedback</p> 	<p>Motorised – Part-turn and multi-turn worm, bevel and spur gear operators</p> 	<p>Intelligent Asset Management</p> 
<p>CVA Range – Linear and part-turn precision modulating actuators</p> 	<p>HPG Range – High pressure gas powered actuators</p> 	<p>Valve Positioners – Precision valve control for pneumatic and hydraulic actuators</p> 	<p><b>Control Networks</b></p> <p>Network connectivity</p> 	<p>Spares</p> 
<p>SI / EH Ranges – Electro-hydraulic actuators</p> 	<p>ELB Electronic Line Break – Pipeline pressure monitoring system</p> 	<p>Filters, regulators, lubricators, pumps, pressure and precision relief valves</p> 	<p>Rotork <i>Master Station</i> – Supervisory plant control</p> 	<p>Life Cycle Services</p> 



## Trusted Partner

**Rotork is a market-leading provider of flow control and instrumentation solutions. We have served global industrial actuation and flow control markets for more than 60 years, delivering results in all regions and in all environmental situations.**

Our reliability record is second to none. Rotork products are designed with safety and performance at their core and are put through vigorous testing by international safety institutes. Our products are certified for use in the world's most dangerous, and hazardous areas.

Partnering with Rotork provides the following:

- Assured safety and reliability
- Industry leading accuracy and efficiency
- Proven technology that works with all control systems
- Product range with solutions to suit every application
- Assistance with plant planning, development and maintenance through our local support services

History shows we are a company to do business with:

- Established in 1957, we have always been innovators and leaders in flow control technology
- Safety is a core value of our business and products
- We have innovative research and development centres throughout the world
- With 3,400 employees globally and 85 sites, we provide local service on a global scale
- We are embracing a more diverse workforce
- We are committed to reducing our own environmental impact, reducing water and power usage year-on-year

**Our service engineers work with industrial partners to design, update and maintain their plant and equipment.**



A full listing of our worldwide sales and service network is available on our website

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