



**Keeping the World Flowing  
for Future Generations**



## Critical Valve Control in Data Centers

Electric actuators and flow control systems for mission critical valves

Rotork valve actuation and safety systems are suited to the modern requirements of data centers where rapid growth in demand for AI, cloud computing, and video streaming services shows no sign of slowing down. How we keep data centres cool will be key in meeting the needs of consumers and businesses in the future.

Our unrivalled knowledge of flow control is being used to help the digital infrastructure industry develop highly efficient methods of cooling data centers, including air cooling, liquid cooling and liquid immersion cooling systems.

We provide a wide range of flow control solutions including our class-leading IQ3 Pro electric actuators, the Schischek range of actuators, controls and sensors for heating, ventilation and air conditioning (HVAC) applications, our compact Hanbay and RCEL electric actuator ranges, and our range of gearboxes and chainwheels for manual valve control.

Rotork intelligent electric actuators are fully compatible with leading fieldbus networks, allowing complete control and integration with your Building Management System.

### Hanbay range

A unique product range offering precision compact actuation with high output torque and low power requirements. These actuators are perfectly suited for use in Cooling Distribution Units (CDU) and cooling control at the tray level, ensuring uninterrupted operation of individual server racks.

### IQ3 Pro range

Our IQ3 Pro electric actuator range is renowned for operational safety and reliability in the world's harshest environments. Mainly used on large industrial valves, the part-turn IQT3 Pro actuator is specified for operation of large rooftop HVAC units, specifically for the safe operation of inlet valves.

### Schischek range

This compact system designed specifically for HVAC applications includes actuators, sensors and controls certified for use in explosionproof and safe areas, with multiple product options suited to different environmental conditions.

The Schischek range can provide a highly efficient cooling option while removing dust particles and moisture that could damage sensitive equipment.

### RCEL range

Compact industrial worm drive actuators providing efficient, high performance automation of quarter-turn valves, such as those found on pipework in data center chiller rooms.

### Gearboxes

While our gearboxes operate some of the world's largest valves, they also operate some of the smallest. The extensive range includes manual and automated gearboxes for every size of valve.

### Chainwheels

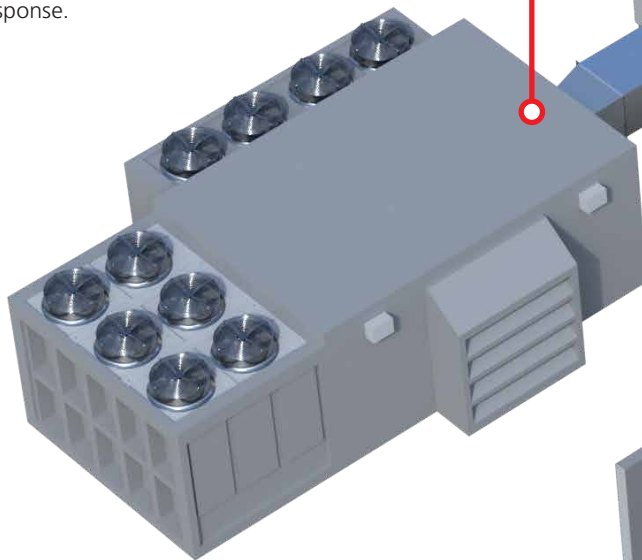
Rotork chainwheels are used in data centers for manual operation and isolation of valves on overhead pipework, especially in chiller and plant room areas that are not yet ready for full automation.

**Reliable, precision control of  
mission critical valves in all  
areas of digital infrastructure,  
data centers, cooling systems  
and industrial buildings.**

Rotork products are designed for critical valve operation and safety systems in all grey and white spaces of modern digital infrastructure and data centers.

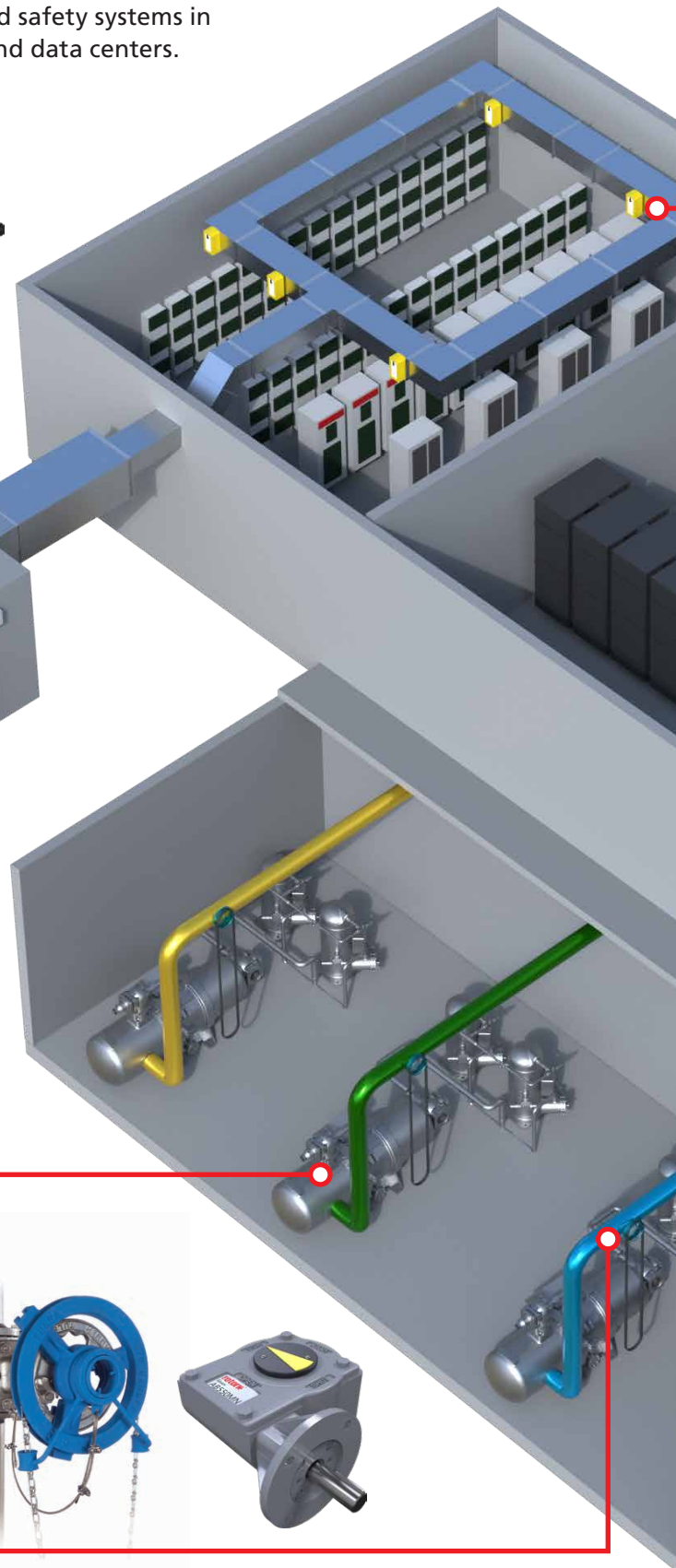
### IQT3 Pro part-turn actuator

Used to control flow to the rooftop cooling tower, the highly reliable IQT3 Pro actuator provides optimal flow assurance with advanced predictive maintenance capabilities. Fully integrated with Building Management Systems (BMS), it delivers detailed process feedback and enables rapid operational response.



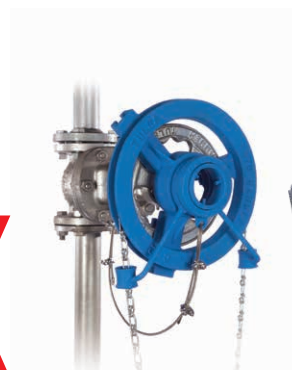
### RCEL actuator

Efficient, high-performance automation and on/off control of quarter-turn valves such as those directly connected to chiller systems and used extensively on plant room pipework. Compatible with Building Management Systems.



### Gearboxes and Chainwheels

Used throughout data centers where valves are located in elevated and overhead pipework. These valves require limited adjustment and are not prioritised for automation. Rotork gearboxes and chainwheels provide an ideal method of moving these hard-to-reach valves.





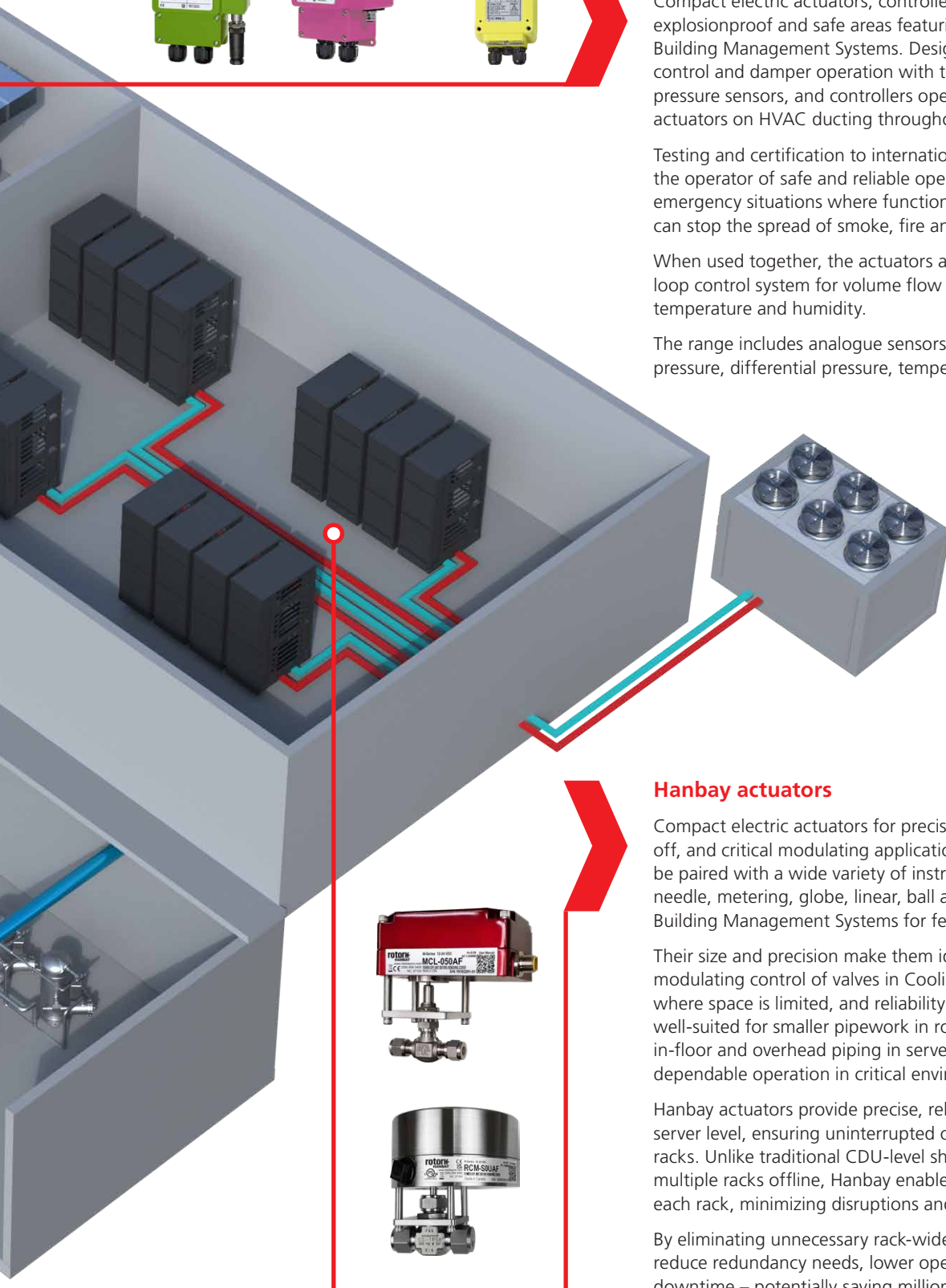
### Schischek range HVAC system

Compact electric actuators, controllers and sensors for use in explosionproof and safe areas featuring full integration with Building Management Systems. Designed specifically for HVAC control and damper operation with temperature, humidity and pressure sensors, and controllers operating valve and damper actuators on HVAC ducting throughout industrial buildings.

Testing and certification to international safety standards assures the operator of safe and reliable operation both in daily use and emergency situations where functional operating of HVAC systems can stop the spread of smoke, fire and noxious chemicals.

When used together, the actuators and controllers form a closed loop control system for volume flow control (VAV, CAV), pressure, temperature and humidity.

The range includes analogue sensors and binary switches for pressure, differential pressure, temperature and humidity.



### Hanbay actuators

Compact electric actuators for precision control of linear, on/off, and critical modulating applications, our Hanbay range can be paired with a wide variety of instrument valves, including needle, metering, globe, linear, ball and butterfly. Compatible with Building Management Systems for feedback and remote control.

Their size and precision make them ideal for both on/off and modulating control of valves in Cooling Distribution Units (CDUs), where space is limited, and reliability is essential. They are also well-suited for smaller pipework in rooftop units and throughout in-floor and overhead piping in server rooms, ensuring precise and dependable operation in critical environments.

Hanbay actuators provide precise, reliable cooling control at the server level, ensuring uninterrupted operation of individual server racks. Unlike traditional CDU-level shutdowns, which could take multiple racks offline, Hanbay enables targeted shutdowns within each rack, minimizing disruptions and preserving uptime.

By eliminating unnecessary rack-wide shutdowns, data centers can reduce redundancy needs, lower operational risks, and avoid costly downtime – potentially saving millions.



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## Rotork Service

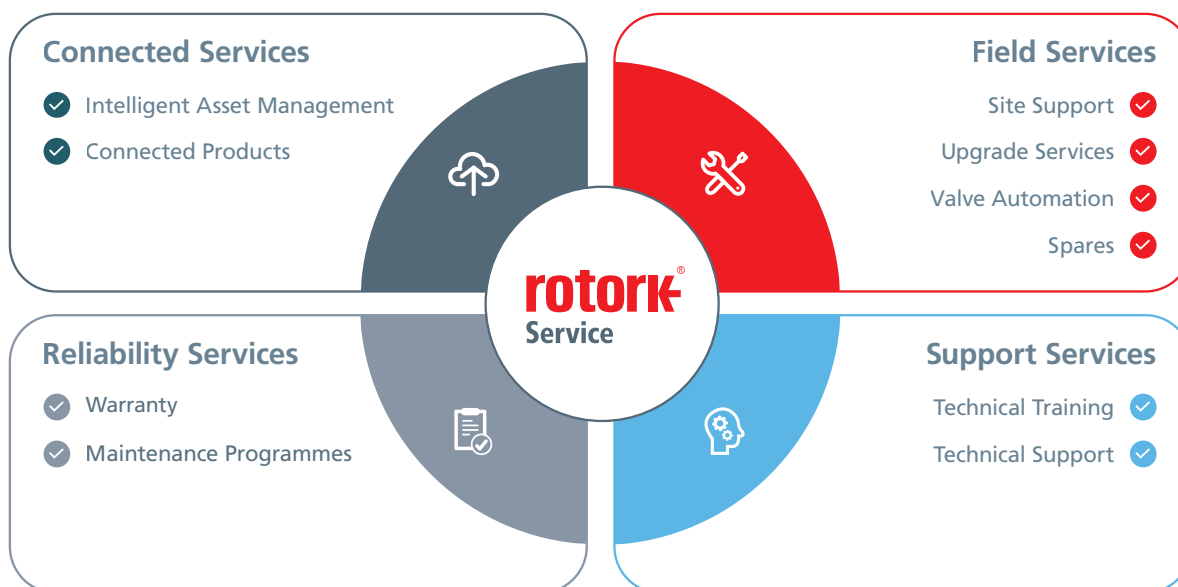
We offer specialist expertise to support mission-critical flow control and instrumentation solutions across oil and gas, water and power, and chemical, process and industrial markets.

With a global presence and decades of experience, we offer services including installation, commissioning, Reliability Services, Intelligent Asset Management (iAM), product upgrades, spare parts, and overhauls.

Our engineers are highly trained, ensuring consistent, high-quality service worldwide. We operate dedicated workshops for the repair, calibration and testing of our products and only use genuine parts to guarantee top-level performance and reliability.

Our service offering covers four key areas:

- **Connected Services** including Rotork's Intelligent Asset Management (iAM) system
- **Field Services** including site support, upgrade solutions, valve automation and spares
- **Reliability Services** including health checks and product maintenance
- **Support Services** including technical training and support



Contact us now

[mail@rotork.com](mailto:mail@rotork.com)

[www.rotork.com](http://www.rotork.com)

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