



Safe & sustainable manual valve operations

Protecting people, property & planet



Welcome to Sofis

As the global leader in manual valve operation solutions, we've been delivering smart process safety and efficiency solutions for more than three decades, helping our customers across sectors to protect people, production, the environment, and profit. Our expertise, consultancy, and services help drive the improvement of industrial safety standards by enabling safe and sustainable manual valve operation for a safer, cleaner, and healthier world.

In all that we do, we're guided by our values: **integrity, safety and quality, customer focus** and **collaboration**. Our aim is to work together with you to deliver solutions that support your challenges, help you safeguard safety and efficiency, and align with today's sustainability goals.

As part of Halma PLC, Sofis is backed by a global organization with a core focus on health, safety, and environmental technologies.

My team and I are honored to work with you, providing you with the solutions and expertise you need to ensure safe, efficient, and sustainable valve operation at your facility.

Thank you for your interest in our company and solutions!



Henry Langston
Managing Director
Sofis BV

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Who we are

Improving plant efficiency and operator safety

Sofis is the leader in creating smart valve solutions for critical valve operation processes in various industries. As safety experts we provide a variety of solutions for controlled, safe and compliant valve operations. We are the world's largest valve interlock manufacturer and supplier of valve operation systems such as mechanical valve interlocks, portable actuators, and valve position indicators, providing bespoke design solutions, consultancy and services that protect people and property across the globe.

We've led and developed the valve interlock market over the last three decades with over 400,000 interlocks installed globally, evolving into specialists and creating smart valve solutions to secure and optimize your manual valve operations and improving process and operator safety.

We are dedicated to improving industrial safety standards in any industry segment with critical operational processes, for a cleaner and safer world.

« Safe manual valve operations protect people, property, and planet. »

Protecting people, property and planet

Our solutions include high quality products and services for controlled, safe and compliant critical manual valve operation processes. We help our customers in the energy, chemical, power, water, food and

pharma industries prevent accidents that can lead to explosions, fire, and spills, causing potential harm to people, assets or the environment.

The facts on accidents:

75%

of accidents in the process industry are related to valve operations

>50%

of valves are manual in most facilities

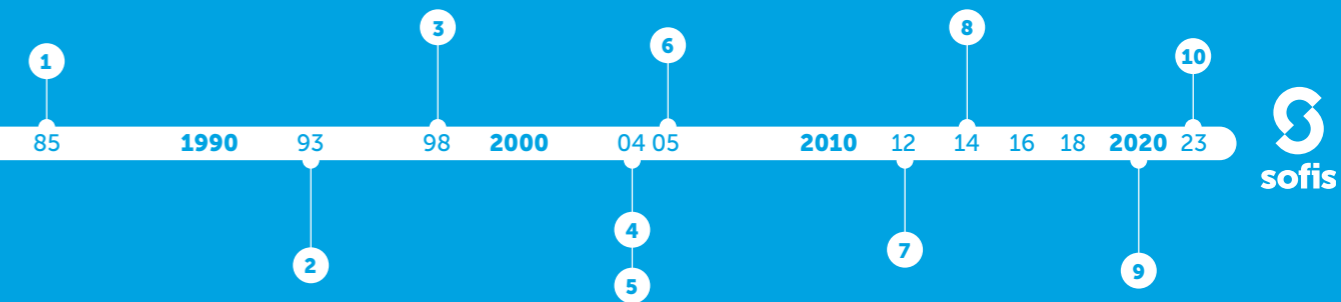


Zero incidents leads to optimal performance

Sofis proven solutions

NETHERLOCKS
safety systems

SMITH
FLOW CONTROL LTD



- 1 Introduction Smith Flow Control interlocks & Key Management solutions
- 2 Introduction Netherlocks interlocks & Key Management solutions
- 3 ASLP (Actuator Switch Lock Panel) developed for Linde Cracking Furnaces
- 4 Introduction Reusable Wire Lock & EasiDrive, portable actuator
- 5 Introduction FAITH (Fail Action Integrity Test Handling), partial stroke test device
- 6 Introduction FlexiDrive, remote valve operator
- 7 Introduction Power Wrench, portable actuator
- 8 Introduction VPI (Valve Position Indicator), for real-time position feedback of your manual valves
- 9 Introduction SAIM (Sofis Asset Integrity Management) program, health checks & training
- 10 Introduction of KMS 2.0 with RFID capability

A history of care and innovation

Sofis was formed by the merger of Smith Flow Control and Netherlocks Safety Systems, the two leading valve operation brands, in 2016.

In 1985, Smith Flow Control was the first company to introduce the coded card linear key concept to valve interlocking, a concept established across the industry today, to implement a safe sequence of operation in any process activity, protecting plants, the surrounding community, and the environment. Other innovations quickly followed, such as the Sequence Control Unit and the Pigging Control Panel.

In 1993, Netherlocks Safety Systems introduced its own valve interlock product range, along with innovative complementary products that were introduced over the years, including the Actuator Switch Lock Panel and the PLC Controlled Key Cabinet for interlocks.

The introduction of the Power Wrench, EasiDrive Portable Actuators and the VPI position indicator underlined the position of both companies as valve operation specialists, merging in 2016 to become Sofis, the global market leader today.

Who we serve

Sofis has developed a comprehensive portfolio of solutions to serve many industries, with a global network of application experts, supporting a wide range of industries with critical valve operation processes. These are the industries we serve:



A Halma company

Sofis is part of the Halma group of companies, a global group of 45 life-saving technology companies. Named as one of Britain's Most Admired Companies, the Halma group provides innovative products and services that help solve many of the key problems facing the world today. The mission for Halma: making the world safer, cleaner, and healthier.

Part of Halma's Safety Sector




Sofis is part of Halma's Safety Sector, together providing technologies that save lives, protect infrastructure, enable safe movement, and protect people and assets at work across a range of critical industrial and logistics operations.

Some facts & figures:



Halma: global group of life-saving technology companies

Sofis, a Halma company

 Founded: 1894	Merged in: 2016
 7,000 employees	100 employees
 45 companies	Worldwide offices: 5 America, Europe & Asia

- Listed on: London Stock Exchange (FTSE 100)

- >38 years of experience
- Market leader since 1985
- Total number of interlocks installed: >400,000

Our commitment to you

As the world's largest interlock manufacturer, with a more than 38-year history of innovation and expertise in valve operations, we've got the knowledge and experts to fully support our customers, across industries and geographies. From design engineers to site service engineers, to quality experts and sales engineers to committed managers to our workforce on the shopfloor building your

actual products every day, our talented and highly motivated teams and team members are here to help you achieve your safety and process objectives. Our people have a long history of working with valve interlocking products, and a deep understanding of leading valve interlock brands such as Ellis, Smith Flow Control and Netherlocks Safety Systems.

Supporting you across all life cycle stages

Design, construction & installation

We can help you save time and costs, minimize delays, and ensure smooth installations for new projects, plant expansions, and more. We provide consultancy and specialized project management, with skilled and trained staff with specialist knowledge.

Turnarounds & shutdowns

We can help you prevent problems to avoid exceeding planned downtime, which can result in increased lost product and financial impact. With our support, you can prevent unforeseen issues, plan repair time effectively and ensure required materials are onsite, minimizing downtime.

Daily operations

We provide solutions that limit operational risk and mitigate the effects of human error, ensuring safe and efficient manual valve operations and guaranteeing the integrity of valve interlock systems.

Maintenance, asset life extension

We can help you ensure the operational efficiency and integrity of your safety systems and manage the life extension of your assets. We offer an asset integrity program which includes training plus recurring inspection followed up with a report with root cause analysis and preventive & corrective actions advice.

Measuring, monitoring & compliance

We develop and manage programs to ensure interlock, system and facility safety integrity and compliance. Our risk management protocols and programs include inspections, tests, corrective and preventive maintenance advice, predictive maintenance, and repair activities.

Navigating change – together

The changes that are reshaping our world are also impacting our industry: an ageing workforce, ageing assets, digitalization and Industry 4.0, the energy transition and sustainability goals. At Sofis, we're innovating and finding new paths forward, helping our customers navigate these and other changes:

An ageing workforce

Many large manual valves are hard to operate. In addition, inexperienced workers may not understand sequences, risking safety breaches. We developed innovative solutions, including the portable valve actuators, that enable anyone, regardless of age or physical strength, to operate manual valves safely and with ease.

Ageing assets

Older equipment is more likely to fail, create safety hazards, leak or spill, or reduce productivity. Our asset integrity program to increase the economic life of assets is designed to improve efficiency, minimize downtime, and reduce safety incidents.

Digitalization and Industry 4.0

The efficiency promised by digitalization is still a work-in-progress for many facilities, across sectors and industries. Our experts are helping our customers make their processes and operations faster, easier, more reliable and more efficient with new digital solutions and connectivity by adding a layer of intelligence to assets and facilitating data communication among them.

The energy transition

As the world starts the shift from fossil-fuel based energy systems to renewable energies, we are repurposing our solutions and technology towards areas such as biofuels, carbon capture, hydrogen energy sources and wind farms.

Sustainability goals

'Goal Zero' sustainability goals can be a challenge to achieve. Our accident prevention and risk management programs can ensure compliance and continuous performance improvement. Our goals at Sofis: to be the greenest partner in the energy transition, and help our customers protect people and the environment.

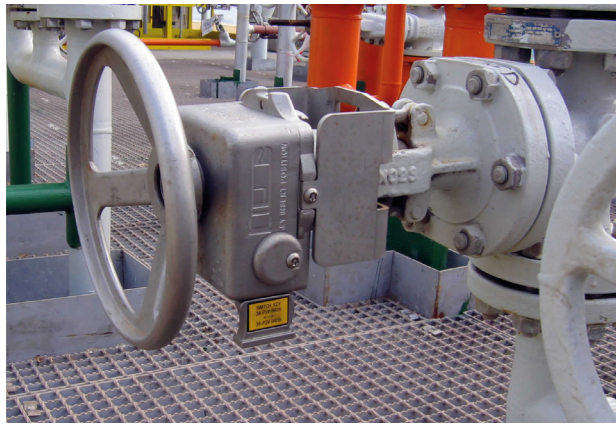
« We're experts across all stages of the life cycle, and can support you wherever you need expertise, guidance, and project support. We're with you every step of the way on your journey to safety and efficiency. »

Our solutions

Sofis offers systems, solutions and programs to help you pursue the goal of no harm to people, to protect assets and the environment.

We offer consultancy and specialized project management, and provide skilled and trained

staff with specialist knowledge. Our engineers have an in-depth understanding of sequences and typical applications. Our project support aims to avoid integrity problems causing unsafe situations and downtime.



Controlled Operations

Limit the possibility of human error to protect people and optimize your process flow by securing and regulating your valve operating procedures.

Valve Interlocks/Captive Key System

Guarantee a predetermined sequence of valve operations.

Key Management

Safely control the operation of all critical valve interlocked systems on your plant.

Valve Position Indicator

Real-time position feedback of your manual valves.

Compliant Operations

Achieve continuous performance improvement for optimized safety and ensure compliance with regulations and risk management policies.

Asset Integrity Management

Program aimed at process safety & efficiency and life extension of your assets.

Inspection & Certification

Annual interlock check & report on operational status, root cause failure analysis.

Training & Certification

Training on valve safety systems, how to avoid human errors that lead to safety risk.

Ergonomic Operations

Create a safer working environment and minimize interruptions or shutdowns by enabling easy or remote operation of your manual valves.

Portable Actuators

Valve-opening alternative to actuators; operating valves with high torque or number of rotations.

Remote Valve Operation

Operate valves from a safe distance. Save scaffolding costs and avoid hazardous areas.

Efficient Operations

Experience operational efficiency by facilitating right first-time installation, project preparation and execution to prevent hand-over problems and unwanted project delays. Improving efficiency translates into lower costs, streamlines operations and minimizes delays or shutdowns.

Installation/Commissioning

Specialist knowledge assuring correct installation for safeguarding critical applications.

Turnaround Support

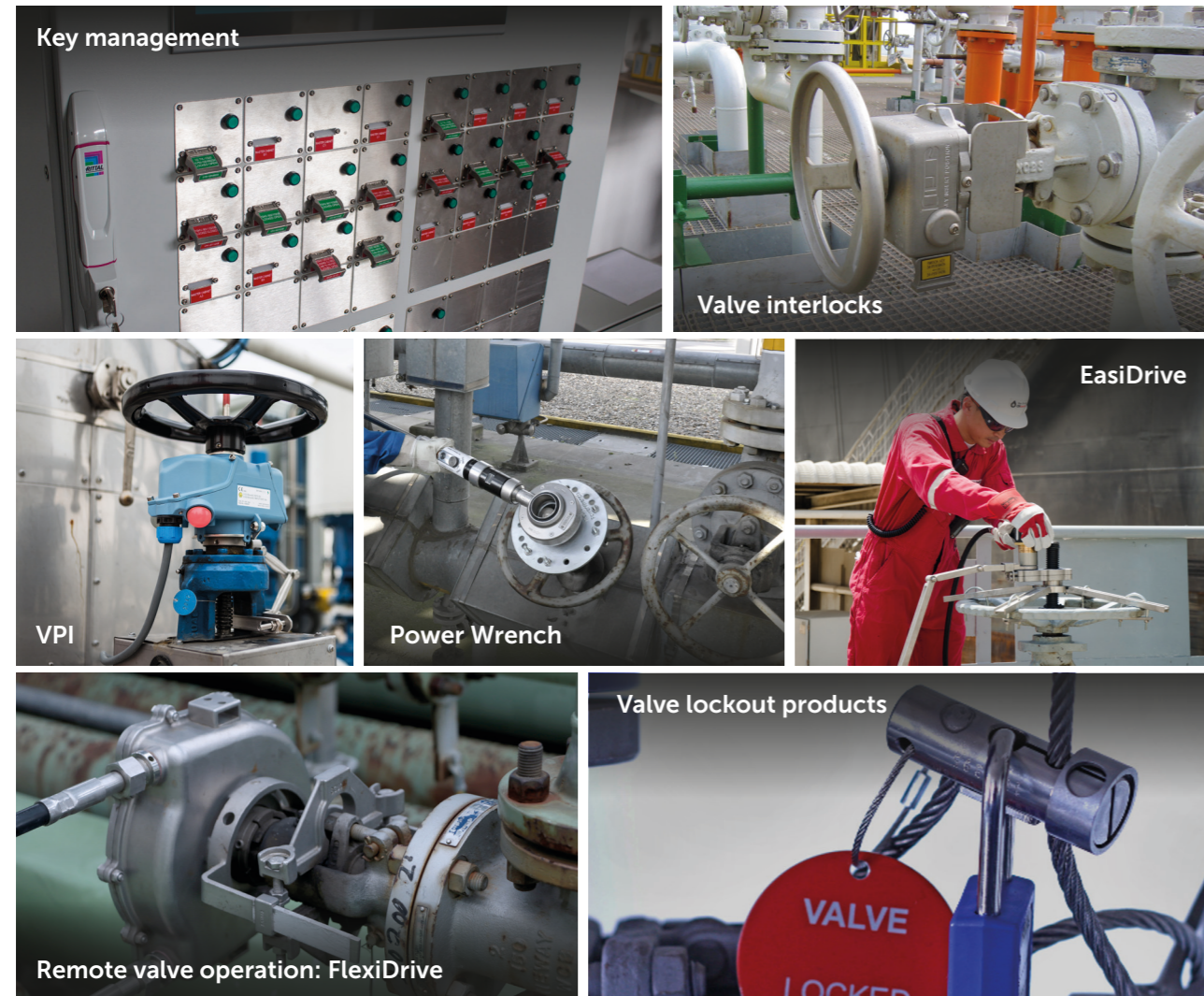
Program and specialist knowledge to ensure a safe and efficient turnaround process.

Asset Life Extension

Regular asset condition monitoring & maintenance by skilled and trained staff.

A selection of our products

Our products and solutions lead the industry, with a focus on safety, efficiency, and innovation. These are some of the products we are known for:



Commitment to quality

Our commitment to quality is at the core of everything we do. We understand the critical importance of safety and efficiency in companies with processes involving valve operations. That's why we are dedicated to providing top-notch safety solutions that ensure the well-being of personnel, protect assets, and minimize risks associated with

valve operations. With our expertise, reliable products, and comprehensive support, we strive to empower companies to achieve the highest standards of safety and operational excellence in their critical valve processes.



Why our customers choose to partner with us

With >38 years of enabling safe and sustainable valve operations worldwide, our customers know they can count on us for the technology, services and consultancy they need to ensure controlled, safe and compliant critical valve operation processes. Whether you're planning a new project, want advice on a shutdown or have an urgent service request, we're here to help.

« No injuries. No accidents. No spills. No loss. No downtime. »

Here's what a selection of our customers have to say about us:

"Before using valve interlocks, we had to make all kinds of adjustments to the valve in order to be able to install lockout-tagout devices onto them. That all changed with the Netherlocks valve interlock, which is installed as an integral part of the valve. Netherlocks interlocks guarantee that only one relief valve can be offline at a time."

Michel Immerzeel, Team Leader Mechanical, Shin-Etsu PVC

"Sabich's relationship with Sofis is very good. The people are cooperative and always look for a suitable solution for the various valve safety issues we experience at Sabich. Their products perfectly suit our requirements."

J. Habets, Senior Dayshift Operator, HDPE Polymers – Production, SABIC Europe B.V.

"In terminals such as ours we handle lots of manual valves. With high temperatures it becomes a strain to operate those valves. So we were searching for a way to operate them with less effort and less time. The Sofis EasiDrive exactly solved that problem for us."

C. Eriza, Operations Manager, Oiltanking, Jebel Ali

"To us safety means that every decision we make prioritizes safety. This was also the case when we were looking for a solution to avoid the significant physical strength and time that was required when manually operating large 24" valves. The solution we were looking for had to enable quick and easy manual valve operation and had to contribute to reduced EH&S incidents and risks, and maintain full regulatory compliance at the same time. We succeeded in our mission and the operations team is now very happy with the Power Wrench, allowing operating these manual valves within minutes and without any physical strain."

Christian Pielaat, Gatekeeper, Trinseo

No injuries.
No accidents.
No spills.
No loss.
No downtime.

