

Watts products installed in an advanced filtration system

for enhanced water treatment





SCOPE

SOCLA butterfly and non-return valves with bar actuators for water treatment plant.

• WHO

Water Treatment Plant

• WHAT

Valves and actuators for clean water in water treatment plant

• HOW

SOCLA Sylax and Tilis butterfly valves, SOCLA non-return valves, bar Agturn actuators

• WHERE

UK

• WHEN

2023-2025

With over 50 years of experience in water conditioning and water treatment systems, Watts is known as a worldwide leader in the water quality industry. We supplied our SOCLA products to a ground-breaking project to design, build, install, and commission the UK's largest ceramic membrane filtration plant.



Modern, safe water supply

Water utility companies are responsible for providing safe and clean drinking water to the public and maintaining the quality of that water. In addition to protecting public health, maintaining safe water quality is essential to prevent contaminated water from harming aquatic ecosystems and wildlife.

The new waterworks are crucial for supplying clean water to the region's population. With an investment of £57 million, this project aimed to increase the capacity of the water treatment works and introduce advanced filtration technologies to secure the supply of high-quality water.

The project features our SOCLA Sylax butterfly valves, Tilis butterfly valves, 402, 405, and 895 non-return valves in cast iron and stainless steel, as well as BAR AGTURN actuators, to effectively meet the project's objectives. We supplied a total of 650 valves, a mix of manual and actuated types. They ranged in size from DN50 to DN350.

Our valves were selected for this project because of their ability to meet the technical challenges of the plant. The plant draws water from a reservoir approximately two miles northwest of the site. This reservoir is replenished by the river intake pumps located within the intake building, which is directly adjacent to the river.

The maximum flow of raw water that can be drawn from the reservoir to the works is 130-135 Megalitres Per Day (MLD). However, an additional measure was required to achieve the desired design flow value. Our team supplied SOCLA Sylax butterfly valves, specifically designed for raw water applications, to address this issue.

Our products are pivotal in delivering a sustainable, high-quality water supply to approximately 700,000 customers. Showcasing our expertise in meeting the evolving demands of the water treatment industry and ensuring clean water for communities.

Product project benefits

SOCLA butterfly valve

Sylax butterfly valves are robust, reliable, and effectively control natural water flow within the treatment process. Their excellent sealing properties and corrosion resistance make them ideal for handling large volumes of raw water. By incorporating these into the water treatment process, we ensured precise flow control, thereby optimising the system's overall efficiency.

Our ranges of backflow preventers and valves are specially designed to protect drinking water pipelines, no matter where they are used, whether domestic, urban, agricultural or industrial.

With several million Sylax butterfly valves installed worldwide, this range of Watts products is world-renowned for its high quality and excellent performance.



402 non-return valve

The 402 cast iron and stainless steel non-return valves were strategically placed within the system to regulate water flow, prevent backflow, and ensure the proper functioning of the treatment processes. Their robust construction, high-performance capabilities, and corrosion resistance make them ideal for this demanding environment.

Coupled with the BAR AGTURN actuators, these valves enable precise and reliable control, facilitating the seamless operation of the treatment system.



bar AGTURN actuator

The bar-AGTURN actuator features a standardised VDI/VDE 3845 interface that supports all signal and control devices. With a built-in position indicator and adjustable end positions (from 0° to 90°, with a setting range of +5° to -5 °), it enables precise valve adjustment. This actuator is perfect for flexible automation and offers two ISO flange patterns per actuator size.





Watts

At Watts we have one of the widest product ranges in the industry and our products improve comfort, safety and the quality of life for people around the world.

Our range encompasses several well-known brands that form a key part of our product offer. Our experienced team can supply everything you need for your project whether it's plumbing or flow control solutions, water quality and conditioning or HVAC you'll find a Watts product that meets your needs with full support available across the entire product range.

For more information about SOCLA products please call 01480 407074 or email us on wattsuk@wattswater.com

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Watts Industries UK Ltd

Colmworth Business Park, Eaton Socon, St. Neots, PE19 8YX, UK

T: +44 (0) 1480 407074 • F: +44 (0) 1480 407076

Email: wattsuk@wattswater.com • Web: <https://www.watts.eu/en-gb>

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