

Transforming Alderney Water Treatment Works

to safeguard Bournemouth's water supply





SCOPE

SOCLA 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 non-return valves, bar Agturn actuators
- **WHERE**
Bournemouth, UK
- **WHEN**
2024

With over 50 years of experience in water conditioning and treatment systems, Watts is recognised as a global leader in the water quality industry. We supplied our SOCLA products to support this innovative project, which aims to transform Alderney Water Treatment Works and is a key part of Bournemouth Water's investment programme to future-proof the water system.



Delivering a world-class water supply for Bournemouth

Alderney Water Treatment Works (WTW) has been providing safe water to Bournemouth for over a century. The WTW underwent a significant upgrade in 2024, featuring a new 84 ML/d ceramic membrane plant constructed using a "Design for Modular Assembly" (DfMA) approach. This off-site modular build enabled the rapid and sustainable installation of advanced treatment modules — including ozone dosing and PWNT's CeraMac 37 membranes — within an existing treatment footprint, reducing the project's carbon emissions.

The plant features critical flow-control equipment developed by SOCLA, part of Watts Industries, encompassing valves and pneumatic actuators that regulate flow through ozone dosing, membrane modules, and CIP systems.

Our products play a vital role in this upgraded plant, supporting the Alderney WTW to provide a sustainable and high-quality water supply to the people of Bournemouth. They highlight our dedication and expertise in adapting to the ever-changing needs of the water treatment industry, all to ensure that communities have access to clean and safe water.

The main products we supplied to this project are our 402 non-return valves, butterfly valves and bar AGTURN actuators.

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.

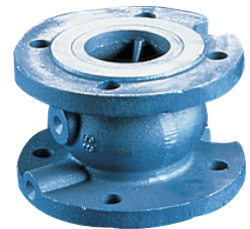
With several million Sylax butterfly valves installed worldwide, this range of Watts products is world-renowned for its high quality and excellent performance.



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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