

# Energy efficiency in a medical products manufacturing plant in Brescia

Watts Sylax valves - **SOCCLA** brand  
A WATTS Brand  
for fluid control and water treatment

## Case Study





## AIM

Fluid control and correct system management to maximize energy efficiency.

## • WHO

Guido Turini, sole shareholder of AFLUTECH, a civil and industrial electrical and mechanical engineering and maintenance contractor operating in the plumbing and heating sector since 1990.

## • WHAT

A new HVAC system for a manufacturing plant.

## • HOW

DN80, DN125, and DN65 Socla brand Sylax valves in the HVAC plant.

## • WHERE

A medical products manufacturing plant in the province of Brescia, Italy.

## • WHEN

2021

## • WHY

To optimize energy consumption.

A major medical products manufacturing plant in the north Italian province of Brescia (Italy) is now enjoying the benefits of Sylax butterfly valves designed for **water treatment** and **fluid control applications**.



HVAC plant

## The new HVAC plant

The project was handled in two parts: **HVAC plant** and **exterior pipework**. The system serves an industrial building of approximately 6000 m<sup>2</sup> in size. Air treatment and distribution are carried out by 35 air handling units. An **HVAC control system** ensures appropriate temperature control and ventilation of the premises 24/7/365, with optimized energy consumption.

*"The choice of SOCLA valves allowed us to create the best solution to build the HVAC plant correctly to achieve stability, efficiency, and considerable energy savings", explains Guido Turini. "Sylax butterfly valves offer differential pressure resistance of up to 16 bar, with spherically machined profiles to eliminate valve disc friction and ensure excellent tightness and long service-life".*

The Socla valves in the HVAC plant are installed in conjunction with components such as pump and mixing units, probes, and safety devices, all coordinated to guarantee **constant and precise control of the system**.

The system was created using welded stainless steel pipe, with the **SOCLA valves mounted on aluminium flanges**.

“Sylax **butterfly valves** offer **differential pressure resistance** of up to 16 bar, the spherically machined profiles eliminate valve disc friction and ensure **excellent tightness** and **long service-life**”



Examples of Sylax valves

## The installer's experience

### Easy installation and durability

“Sylax valves meet a **wide range of requirements** – says system contractor Luca Fabris – and offer **reliable actuation** thanks to their self-lubricating bearings. The spline driven one-piece shaft allows highly effective floating assembly of the disc for longer service-life, optimal tightness, and improved actuating torque. Because the **products are well made**, they don't give rise to problems during the installation process”.

Modern heating systems are expected to offer continuous operation, rapid servicing, and low running costs and **Watts** has the necessary technical know-how to provide a **complete range of components** for guaranteed control and efficiency.

Watts offers a wide range of Sylax valves, allowing the use of **different diameters**: DN80, DN125, DN65 in the HVAC plant and DN100 on the exterior pipework.



HVAC plant exterior pipework

## Quality and reliability

“Sylax valves meet very high specifications and are tested in compliance with the main European certifications, allowing us to provide a five-year warranty”, explains Guido Turini. “A range of products associated with the **highest level of reliability** in the eyes of the installer. The company offers technically valid products and **dependable after-sales support**.”



# Watts recommended by the installer

*"I recommend Sylax Valves – concludes system contractor Luca Fabris – because of the **benefits they provide during the installation process and because they're top-notch products.** The characteristics of Watts systems, including their fast fitting and practical installation, have optimised work procedures. Watts combines the guarantee of a major manufacturer with a **competitive price.** We fit these valves also in other systems precisely because of their **practicality, straightforward installation and many different functions.**"*



Exterior pipework



## About us

Watts is an American multinational and one of the world's biggest manufacturers of plumbing and heating products and components. Established in 1874, the business is based in North Andover (USA) and listed on the New York Stock Exchange. It has one administrative site, two production facilities and two research centres in Italy. Thanks to its know-how, reliability, professional ethics and attention to health, safety and the environment, Watts contributes to technological research in the sector with a constant focus on energy saving, safety, and the quality of life.

For further information, visit [www.wattswater.it](http://www.wattswater.it) and [cloud.wattswater.eu](http://cloud.wattswater.eu)

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