



# GV Series

VARISPEED BOOSTER SYSTEMS

# GV Series

The Xylem Varispeed booster systems are suitable for mains water supply systems in buildings and facilities. They provide constant pressure thanks to the controller, the new main board that controls the number of pumps running and the speed of each pump. A Xylem Varispeed booster system includes pumps from the high-efficiency SV range and frequency converter in the panel.

The booster set range consists of two to six eSV pumps which are fitted on a common base with all components, pipes and fittings assembled. One pressure transmitter is connected on the delivery side of the set.

The Varispeed system ensures instant control, flexibility, efficiency and energy savings. Thanks to its simple design and shape, the Varispeed booster systems are suitable for all types of installation where space is limited.

Achieving constant pressure in the system ensures low maintenance costs, high quality operation, and cost savings. Xylem Varispeed booster systems establish high quality, value and new technologies that work together in a highly efficient system.





## Benefits.

Water supply applications and irrigation systems

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Compact system

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High efficiency

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Electric pump with motor EFF1 as standard and newly designed controller

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Plug and play installation and user friendly start up

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Pump rotation on working hours or pump start

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Trouble free servicing

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Complete factory assembled and tested system

Frequency converter rotation on working hours

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Easy to set

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The LCD display on controller shows the operating values and performance of the pumps

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Monitor and control fieldbus communication

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BMS compatibility through RS485 Modbus RTO to integrate complete booster system with a computer for complete system monitor control and configure

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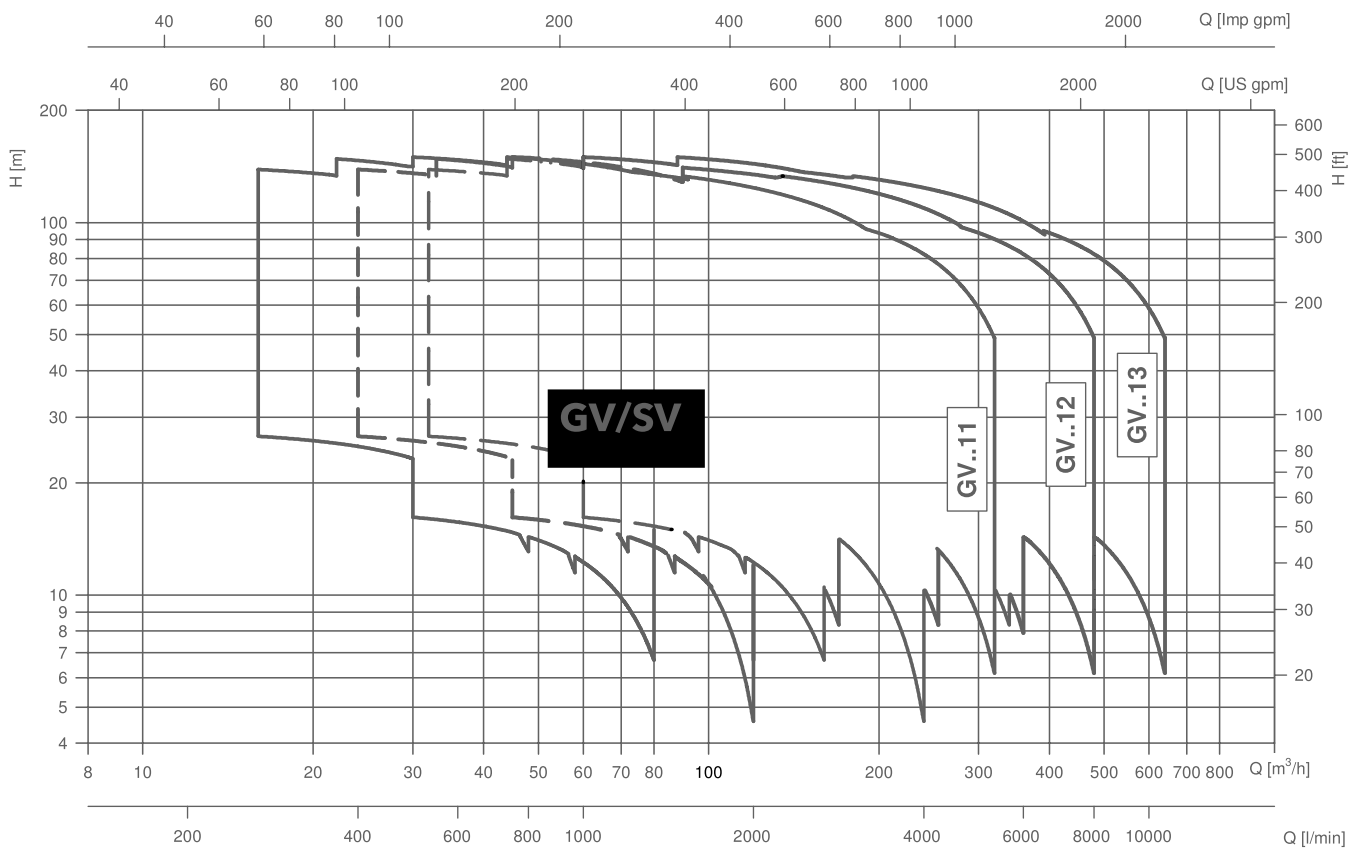
Autotest by a timer

## Specifications.

Xylem Varispeed booster systems are equipped with SV series vertical multistage pumps. These high efficiency pumps with EFF1 (EFF2 - optional) motors offer higher efficiency and energy savings. The reliability and efficiency of the eSV series, combined with the new controller, ensures we provide the best solution for our booster systems. Thanks to the newly designed controller the brain of the Varispeed booster systems, it is possible to control up to six pumps, their speed and the number of pumps in run.

The controller is linked with a frequency converter (one for the set or one for each pump) in order to achieve flexibility and full control of performance output. In this way it is possible to ensure constant water pressure all the times.

Varispeed booster systems are used when additional pressure and flow is required. The huge range of Varispeed models is developed in order to meet all customers' demands for performance, control and system monitoring.



## The new designed controller.

The brain of Varispeed booster systems is the new advanced control unit. The controller has been designed specially for Xylem booster systems, with the latest electronic technologies. It is "user friendly" and guides users through the menu shown in an LCD display, allowing you to modify the main parameters and achieve performance according to system demand.

The new controller was born from the experience of Xylem in pump control and especially in variable speed control, with years of research into such systems. Today the controller involves all our know how and satisfies all demands placed upon it. Through the controller we will

improve the performance of our booster systems and simplicity of use for the operator. The navigation in the menu is very easy, with a step-by-step approach to setting the main parameters and obtaining the best performance from the booster system. Following the various steps will ensure that all settings are made in the correct sequence.

Electronic controllers as often seen as complex and elaborate devices and hard to use. However the Xylem controller has created a guided start-up menu which allows the initiation of the set, and making it intuitive and simple to control.



## Specifications

LCD/Touch screen display with backlight

System status signals

Alarms visualization (automatic or manual reset)

Remote access to controller by PC via RS485, back-up data and software

Cascade control

Speed control

Serial communication Modbus

Dry run protection

PID control, max comfort and performance consistency

## Applications

### Water supply

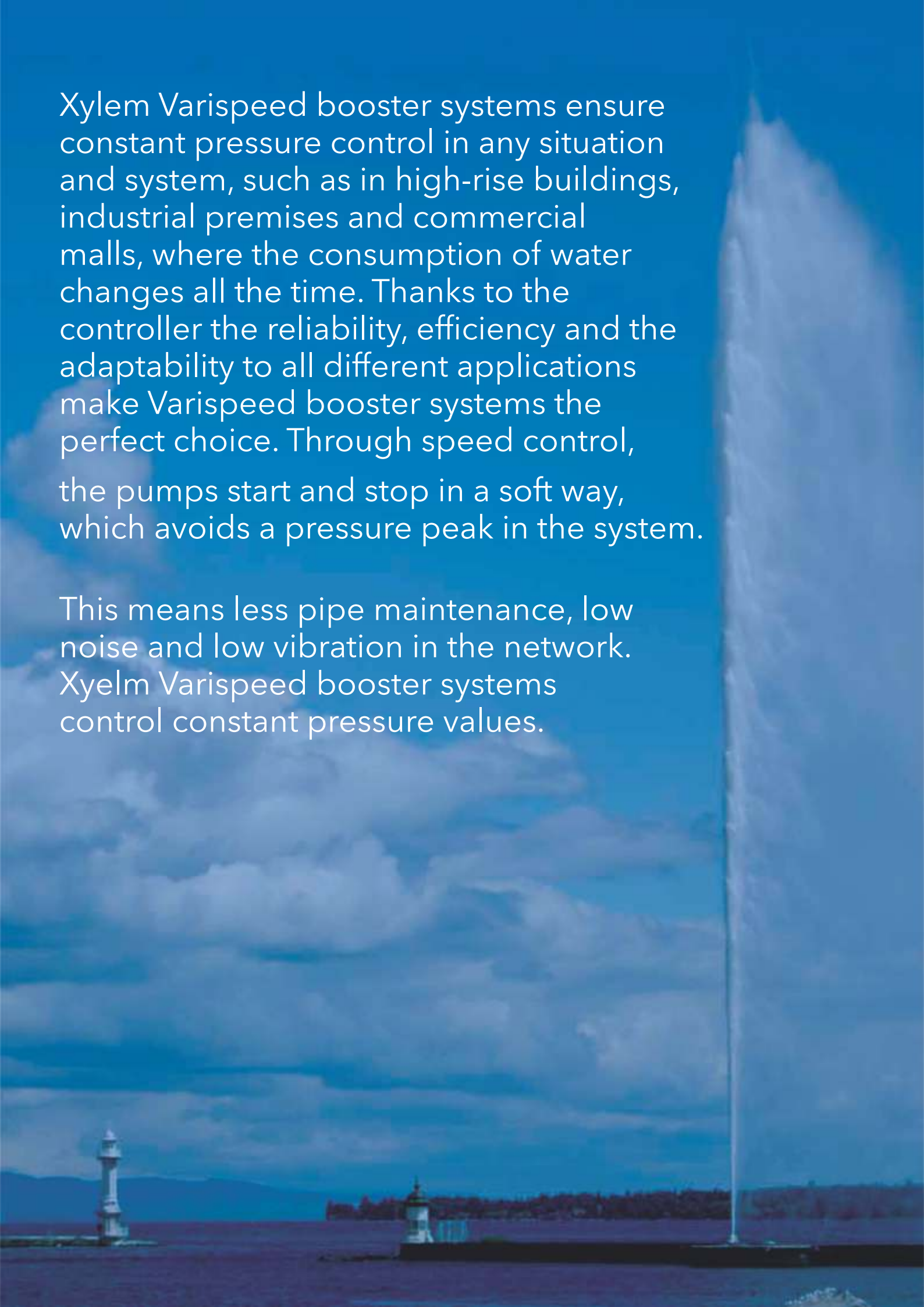
The Xylem Varispeed booster systems are suitable for water supply systems and for boosting pressure in high-rise buildings, hospitals, schools, hotels, public buildings, industrial premises, theatres and camp sites, where the demands of water change frequently and at different times of the day.

Xylem booster systems ensure the reliability of the system, maintaining constant water pressure for all users and all day.

Through the RS485 Modbus connection, the Lowara Varispeed booster system can be linked to a remote computer as part of the BMS (building management system), making it possible to monitor the booster's operating conditions. It is possible to control the booster system performance, change value pressure sets, and start and stop of the pumps. The alarms can be monitored directly on a PC screen.

The controller ensures the optimisation of the Varispeed booster system's energy saving characteristics.





Xylem Varispeed booster systems ensure constant pressure control in any situation and system, such as in high-rise buildings, industrial premises and commercial malls, where the consumption of water changes all the time. Thanks to the controller the reliability, efficiency and the adaptability to all different applications make Varispeed booster systems the perfect choice. Through speed control, the pumps start and stop in a soft way, which avoids a pressure peak in the system.

This means less pipe maintenance, low noise and low vibration in the network. Xylem Varispeed booster systems control constant pressure values.

# Constant pressure and high adaptability for all application



If the brain of Varispeed booster system is the controller, the SV vertical multistage pumps are the heart of the booster sets. High tech pumps with high efficiency motors give Varispeed booster systems the highest level of quality. The eSV pumps used in the Varispeed booster systems are easy to install and to replace.

Thanks to their simple maintenance, the mechanical seal can be replaced very quickly without removing the electric motor. High level of performance, high efficiency, stainless steel technology and a wide range of models enables many booster system combinations for any application.

Multi-pump control ensures a balanced system, with drive rotation for each pump. With high quality Xylem motors fitted on eSV pumps, Varispeed booster systems ensure low noise and the best comfort for all users.

Varispeed booster systems provide suitable water supply for every occasion, and, if the frequency drive is in fault, the controller ensures the control of the system in automatic way.



Xylem (XYL) is a leading global water technology provider, enabling customers to transport, treat, test and efficiently use water in public utility, residential and commercial building services, industrial and agricultural settings. The company does business in more than 150 countries through a number of market-leading product brands, and its people bring broad applications expertise with a strong focus on finding local solutions to the world's most challenging water and wastewater problems. Xylem is headquartered in Rye Brook, N.Y., with 2013 revenues of \$3.8 billion and more than 12,500 employees worldwide. Xylem was named to the Dow Jones Sustainability World Index for the last two years for advancing sustainable business practices and solutions worldwide.

The name Xylem is derived from classical Greek and is the tissue that transports water in plants, highlighting the engineering efficiency of our water-centric business by linking it with the best water transportation of all - that which occurs in nature. For more information, please visit us at [www.xyleminc.com](http://www.xyleminc.com)



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The specifications and features may change before prior notice.