

Water savings of up to 70% with intelligent sanitary solutions

Water-saving fittings and angle valves from SCHELL conserve valuable resources

Over the last 100 years, global water consumption has risen by more than 600 percent. The resulting water scarcity is now making its presence felt not only in countries with a dry climate but also in Germany during hot summer months. In recent years, cities such as Berlin, Hamburg and Frankfurt have already started taking action against water shortages. In light of these facts, saving water and conserving resources are more important than ever. Day-to-day water consumption – during showering and hand-washing – offers excellent potential for savings, and these can be easily achieved with the innovative and water-saving solutions from fittings manufacturer SCHELL. From electronic wash basin taps to self-closing taps or angle valves with regulating function, SCHELL products not only conserve the valuable resource of water but also save energy – and therefore cut utility bills – by reducing hot water consumption.

As a pioneer in the field of water- and energy-saving sanitary technologies, SCHELL offers a broad portfolio of efficient fittings solutions that reduce water and energy consumption over the long term – and all without compromising on user comfort. As one example, SCHELL's electronic contactless taps can achieve water savings of up to 70 percent, compared with regular single-lever mixers. With the manufacturer's self-closing taps, where the flow of water stops automatically after a preset period of time, consumption can be cut by up to 55 percent. Even SCHELL's industry-standard angle valve with regulating function helps to keep operations economical and sustainable: Once optimally adjusted, water consumption can be easily reduced by up to 40 percent. As an additional benefit, cutting hot water consumption also achieves significant savings on the energy needed to heat the water.

Sustainable building operations with electronic taps and self-closing taps

With its broad portfolio of electronic taps and self-closing taps, SCHELL has the perfect, water-saving solution for a wide variety of application scenarios – for wash basins, kitchens, showers, WCs and urinals. Electronic tap solutions offer the greatest potential savings of no less than 70 percent. In SCHELL's electronic, contactless wash basin taps, the flow of water is controlled by an infrared sensor, or – with the new XERIS E²,

CELIS E² and PURIS E² faucet series – with a highly accurate time-of-flight (ToF) sensor. Water only flows when hands are within the detection range of the sensor. As soon as hands go out of detection range, the flow of water stops automatically.

The new E² faucet generation also features three pre-configured operating modes, including a 'Water saving' mode. In this mode, the flow of water stops more quickly after hands leave the sensor area, which saves valuable resources and improves operating efficiency.

Alongside significant savings for resources, both sensor-operated and self-closing taps also offer an optimised level of user hygiene. While self-closing taps reduce direct contact with the tap body to a minimum, contactless models make operation of the tap entirely 'hands-free'. This is a key benefit especially in the case of public sanitary facilities that are used by a wide range of individuals, where disease transmission is potentially very rapid as a result of contact infections.

Automatic stagnation flushes are more economical than manual flushing

Electronic taps from SCHELL also offer another important function: the option of performing automatic stagnation flushes. In larger buildings in particular, water can be left standing in the piping during periods of less frequent use. This can give rise to hygiene risks, which include Legionella concentrations rising to unacceptable levels. A regular exchange of water is essential to maintain drinking water quality. If this is carried out automatically instead of manually, additional water savings can be achieved, because the flush process is precisely controlled and therefore more efficient. The new XERIS E², CELIS E² and PURIS E² wash basin faucets go one better and offer smart, demand-based flushing: flushes are recalculated and executed daily, after allowing for usage levels. This ensures compliance with the 72-hour rule (VDI 6023) while minimising water consumption. Flushing is skipped if usage levels are high enough.

Saving water with a flick of the wrist – underrated potential savings with angle valves

Alongside fittings, angle valves also offer huge potential savings. Installed under the wash basin, they are often overlooked, although they can make a decisive contribution to reducing consumption. As a global market leader in angle valves with more than 75 years of experience, SCHELL offers a wide range of over 200 variants. The ingenious angle valves with regulating function make it possible to adjust flow volumes for cold and hot water individually, and compensate for varying line pressures. Once correctly

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adjusted, consumption is cut by up to 40 percent – and all without compromising on user comfort. Adjustment couldn't be easier, either. As a first step, the tap is opened to its fullest extent. Then, the handles on the angle valves on the cold and hot water inlets are used to regulate the stream of water to the required volume and temperature as it flows out of the tap. The tap is then closed again – and the next time it is used, it will start saving water automatically. Thanks to the regulating function, SCHELL angle valves maintain their ultra-quiet noise class 1 in any position.

Summary: sustainable solutions for greater efficiency and environmental protection

With its water-saving taps, faucets and angle valves, SCHELL offers advanced solutions to ensure the sustainable and resource-friendly use of water. Whether in public facilities, on commercial premises or in private households, solutions from SCHELL help to optimise water and energy consumption and provide effective savings on energy bills while making a valuable contribution to environmental protection and climate action.

Figures:

Pictures: Schell GmbH & Co. KG

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SCHELL_Saving water_CELIS_01.jpg



SCHELL_Saving water_CELIS_70_02.jpg

Save time when saving water: By switching to electronic taps and faucets from SCHELL, water and energy consumption can be reduced by up to 70 percent compared with conventional single-lever mixers.



SHELL_Saving water_angle valve_03.jpg



SHELL_Saving water_angle valve_40_04.jpg

Resource conservation on tap: with a correctly adjusted angle valve, water consumption can be easily reduced by up to 40 percent.

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About SCHELL:

Based in Olpe in Germany's Sauerland region, SCHELL GmbH & Co. KG is an international specialist for fittings, innovative products in the field of sanitary equipment and digital solutions for maintaining drinking water quality. The company is the global leader for water management systems and angle valves. The product portfolio for sanitary facilities on public and commercial sanitary premises also includes faucets and fittings for any point of use in a building. Formed in 1932, the business continues to be one hundred percent family-owned and run, and is currently managed by Andrea Bußmann and Andreas Ueberschär. SCHELL employs around 450 people and operates in over 80 countries worldwide. The company maintains a high degree of vertical integration for its premium, multiple award-winning 'Made in Germany' fittings – 15 million of which are produced every year. Sustainability is a key priority at Schell, with the company's two Olpe-based factories handling the entire, resource-friendly production process. All items are also manufactured with an eye on maximising product durability. Once installed, the fittings make an important contribution to both drinking water and user hygiene.

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