

Press Kit

IFFA, Frankfurt, 14 to 19 May 2022

Content

SMC at IFFA 2022

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SMC company profile

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Egelsbach, May 2022

SMC at IFFA 2022: Hygienic, safe and efficient solutions in Clean Design for the food industry

Set to take place from 14 to 19 May 2022 in Frankfurt am Main, the IFFA will once again provide an international stage for forward-thinking solutions that will make the food processing industry even more efficient, safe and sustainable. SMC, the specialist for electrical and pneumatic automation, will also be presenting an innovative product portfolio for a wide range of applications – with a particular focus on primary packaging as well as the process and wet areas, including a uniquely hygienic world first in the fitting range.

From dairy and meat processing companies to protein product manufacturers and the worlds of craft and trade, the IFFA (international trade fair of the meat industry) offers the food industry the ideal international platform to exchange ideas on food trends and safety in addition to process optimization and resource efficiency. SMC (Hall 12.0, Stand A69) will once again be presenting state-of-the-art food-compliant components, which help to improve productivity and hygiene safety: Highlights will include the world's first EHEDG-certified pneumatic fitting KFG2H-E, the FDA-compliant polyurethane tube TU-X214, the robust stainless steel cylinder CG5-X2977 and the new manifold valve JSY5000-H. Visitors can see for themselves how the clean design solutions enable efficient machine cleaning. SMC expert Ulrich Lampen, Group Leader, Product Management & Industrial Application Center, will offer further insights in his technical presentation "Designing automation components for efficient cleaning" (18 May, 15:00-15:25, IFFA Forum Stage).

World's first EHEDG-certified pneumatic fitting

With the new KFG2H-E series clamp fittings, SMC will be presenting the world's first EHEDG-certified pneumatic fitting that meets the European Hygienic Engineering and Design Group's (EHEDG) strict Type EL Class I Aux certification. The solution, which is also compliant with FDA requirements and the EU Regulation (EC) 1935/2004, prevents liquids and dirt from accumulating thanks to its stainless hygienic design with polished stainless steel – thereby increasing food safety in applications that are frequently cleaned and/or come into contact with liquids. Suitable for water, steam and compressed air media, and with temperature resistance from -5 to +150 °C (no freezing) and an operating pressure range between -100 kPa to 1 MPa, the new KFG2H-E series fittings are ideal for use in harsh conditions.

FDA-compliant tube for regulated applications

Solutions used worldwide in the food industry make it essential to use materials that have a long shelf life and do not release ingredients, for example, in accordance with FDA guidelines. For this purpose, SMC has developed the TU-X214 series polyurethane tubes. Their FDA and EU No. 10/2011 compliance, which has been confirmed for both exterior and interior, make them suitable for many applications. Designed for a maximum pressure of 0.8 MPa (operating temperature of 20 °C) and a temperature application range of -20 to +60 °C (compressed air) or 0 to 40 °C (water – no freezing), the range includes five different sizes with an outside diameter of 4, 6, 8, 10 and 12 mm and eight different colours. The colour coding allows even complex tubes to be clearly arranged, thus avoiding confusion.

Robust stainless steel cylinder for aggressive applications

The stainless steel cylinders of the CG5-X2977 series are also perfectly suited for use in wet areas of the food and beverage industry. All exterior elements are made of rustproof stainless steel and sustainably resist acids, alkaline solutions and aggressive cleaning agents. The cylinders' stainless steel housings are round and have a clean design throughout, which can be seen, among other things, in the hygienic adjustable cushioning, the flattened connection area for mounting straight plug connections and the laser marking for product designation. The absence of corners and edges allows quick and efficient cleaning of the cylinders – and thanks to the short cleaning time, users benefit from high system availability.

Full power with new clean design manifold valve

Also featuring a clean design, automation specialist SMC has developed the JSY5000-H series manifold valve, which can be used in the splash zone and enables cleaning with high-pressure cleaners under high temperatures up to 80 °C. In addition, the solution boasts IP69K protection class and FDA-compliant materials, stands out with a flow rate of up to 1600 l/min (ANR) at low power consumption and can be connected via IO-Link. With dimensions of 81 x 166 x 233 mm (H/W/D) at five stations, the manifold valve enables designers in the food industry to create extremely compact machine design – the valve width of the single valve is only 15 mm. This enables short tubing lines and at the same time reduces maintenance time and thus costs.

Trade visitors will find SMC at IFFA 2022 in Frankfurt am Main in Hall 12.0, Booth A69.



Figure 1:

The polished stainless steel of the world's first EHEDG-certified pneumatic fitting in the KFG2H-E series enables effective cleaning and prevents the build-up of liquid and dirt.

Photo: SMC Deutschland GmbH

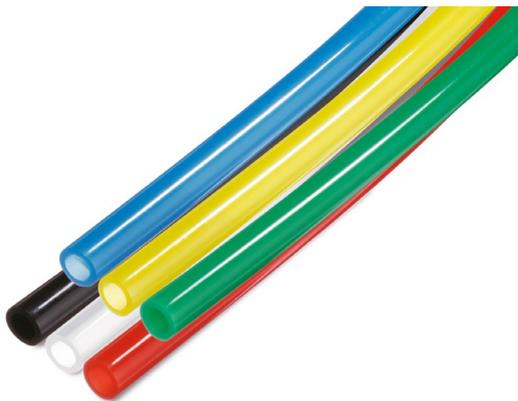


Figure 2:

SMC's TU-X214 series PU tubes are FDA-approved for a wide range of uses across the world in many regulated food industry applications

Photo: SMC Deutschland GmbH



Figure 3:

The rustproof stainless-steel cylinders of the CG5-X2977 series with a clean design are made for damp and aggressive environments and can be used worldwide thanks to FDA- and EU-1935/2004-compliant materials.

Photo: SMC Deutschland GmbH



Figure 4:

Thanks to its clean design and IP69K protection class, the JSY5000-H series manifold valve enables use in the splash zone and impresses with a flow rate of up to 1600 l/min (ANR).

Photo: SMC Deutschland GmbH

For more information, visit the SMC website at www.smc.de

About SMC Deutschland GmbH

A leading manufacturer, partner and solution provider for pneumatic and electrical automation technology – SMC Deutschland provides a comprehensive product assortment, from valves to temperature control devices, with more than 12,000 basic models and over 700,000 variations for a broad range of industrial sectors. The innovative automation solutions of the company based in

Egelsbach near Frankfurt am Main can be found in the automotive, electric, photovoltaic, medical, packaging and food industries, among others, as well as in machine tool building, robotics and automation. SMC Deutschland generated a turnover of 152 million euros in the 2020/21 financial year and employs more than 750 people in Germany. In addition, a comprehensive expert service and distribution network is at the disposal of all customers.

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Press release

Egelsbach, May 2022

Uniquely hygienic: The world's first EHEDG-certified pneumatic fitting KFG2H-E for the food industry

In the food industry in particular, it is important to use components that comply with strict hygiene guidelines due to their possible contact with end products destined for consumption. The new clamp connections from SMC's KFG2H-E series represent the world's first and, to date, only EHEDG-certified pneumatic fitting in accordance with type EL Class I Aux for particularly quick and effective cleaning. They are compliant with the U.S. Food and Drug Administration (FDA) and EU 1935/2004 standards and avoid the accumulation of liquids and dirt thanks to their rust-free Hygienic Design using polished stainless steel – thereby increasing hygiene and food safety.

To safely and cleanly connect plants, machinery and individual components in the food industry, the clamp connections used need to satisfy high requirements: given the adverse conditions in which they are employed, they need to be corrosion-resistant against a wide variety of elements and enable friction-free, hygienic operation. Specifically for applications that are cleaned often and regularly and/or come into contact with liquids, automation specialist SMC has developed the new clamp connections in the KFG2H-E series – the world's first and, to date, only pneumatic fittings that meet the strict certification requirements of the European Hygienic Engineering and Design Group (EHEDG) in accordance with type EL Class I Aux. Thanks to compliance with these requirements for parts in open processes that are cleaned with liquids (wet) and without disassembly, the fittings can be cleaned particularly quickly and effectively, making them the ideal solution for optimised hygiene in the food industry.

Hygienic Design for greater food safety

The KFG2H-E series has a polished, rust-free stainless steel surface (AISI 316) and open angles that avoid the adhesion of dirt. In addition, the blue-coloured seals made from special natural rubber (FKM) provide for optimal visibility and detectability and are compressed during assembly by metal stoppers, fitting seamlessly into the construction. The threaded connections comply with protection class IP69K, the highest category with respect to protection against dirt and moisture. The resulting Hygienic Design thus prevents the accumulation of liquids in particular, which is beneficial in the event of

frequent cleaning, among other things. Suitable for the mediums of water, steam and compressed air, offering temperature resistance from -5 to +150 °C (no freezing) and with an operating pressure range of between -100 kPa and 1 MPa, the new fittings are ideal for use in the most difficult conditions for applications in the food sector.

Safe use thanks to EHEDG and FDA conformity

The series also meets the strict requirements of both the EU directive 1935/2004 as well as the U.S. Food and Drug Administration (FDA) Section 177.2600. As a state authority, the latter is responsible for the control of all goods put into circulation in the United States, making the specifications binding for German companies exporting there. The confirmed conformity of series KFG2H-E with the standards of the EU and the FDA, as well as certification in accordance with EHEDG guidelines – unique among pneumatic fittings to date – make it perfect for safe use in the international food sector – and hence anywhere where producers or packagers have to comply with the highest standards in terms of hygiene and food safety.

Further information can be found on the EHEDG website <https://ehedg.org/>, with certification for the series KFG2H-E at: https://ehedg.org/uploads/tx_sy-certifiedequipment/certificates/EHEDG_EHEDG-C2000017_ID1580_02.pdf



Figure 1: The Hygienic Design using polished stainless steel of the world's first and, to date, only EHEDG-certified pneumatic fitting in the KFG2H-E series by SMC enables particularly quick and effective cleaning and prevents the build-up of liquid and the adhesion of dirt.

Photograph: SMC Deutschland GmbH

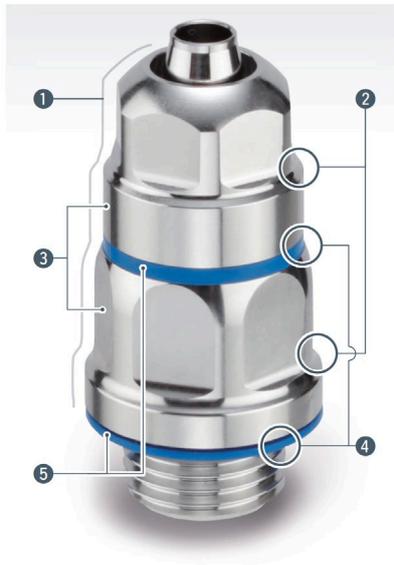


Figure 2: EHEDG construction standards. Photograph: SMC Deutschland GmbH

- 1 Maximum external surface roughness: Ra 0.8 μm
- 2 Corners with a radius of 3 mm or more or with a chamfer angle of 135°
- 3 Rust-free material with high corrosion resistance: stainless steel 316
- 4 No direct contact with external metal parts
- 5 Seals made of FDA-compliant rubber materials

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Press release

Egelsbach, May 2022

Flexible, colourful, FDA-compliant: Polyurethane tube from the TU-X214 series for regulated applications

Both in the food and pharmaceutical industries, tubes are used that have to be designed for direct contact with foods or medication in line with the highest hygiene guidelines. Solutions that are used worldwide, in particular, make it essential to employ materials that are particularly long-lasting and do not shed any of the materials from which they are made, in accordance with international guidelines like those from the U.S. Food and Drug Administration (FDA). For this purpose, SMC has developed the robust and flexible polyurethane tubes in the TU-X214 series: with an outside diameter of 4 to 12 mm, they are suitable for many applications and can be used both in the food industry and in pharmaceutical applications thanks to their internally and externally confirmed FDA and EU no. 10/2011 conformity.

Whether under process conditions in the food or pharmaceutical industry: components such as tubes have to possess high material resistance, on the one hand, for instance in order to withstand the effect of aggressive liquids such as acids. On the other hand, they need to have smooth surfaces to prevent the accumulation of germs and to enable problem-free cleaning. In the shape of its TU-X214 series, SMC, the specialist in pneumatic and electrical automation, has developed a tube for these conditions made from polyurethane (PU). It stands out thanks to its high flexibility and crack resistance and complies with the requirements of both Commission Regulation (EU) No. 10/2011 as well as the FDA's Section 177.2600 thanks to the omission of any external marking and external or internal imprinting. As a state authority, the latter is responsible for the control of all goods put into circulation in the United States, making its specifications binding for German companies exporting there. The confirmed FDA conformity of series TU-X214 makes the PU tubes ideal for use in an international environment, while they serve a broad range of uses thanks to their advantageous characteristics and variations.

Easy colour coding for less danger of mix-ups

The TU-X214 series includes a total of five different sizes with an outside diameter of 4, 6, 8, 10 and 12 mm. As a feature, SMC offers the PU tubes in eight different colours: in addition to the three

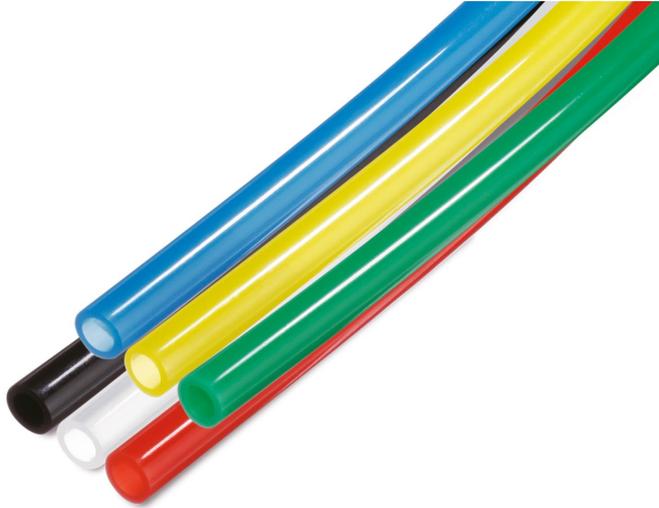
translucent (light-permeable) colours red, blue and colourless (clear or material colour), these include the five opaque (non-light-permeable) colours white, black, yellow, green and orange. This allows even very complex tube connections to be rendered particularly clear through simple colour coding – so the mapping of a connection is possible at first glance, reducing the danger of possible mix-ups on the part of operators (poka-yoke). On the other hand, the translucent colours allow an insight into the inside of the tubes, available in lengths of 20 metres, enabling easy checking and problem identification. They are designed for a maximum pressure of 0.8 MPa (operating temperature of 20 °C) and a temperature usage range of -20 to +60 °C (compressed air) or 0 to 40 °C (water – no freezing). They thus cover a broad range of applications.

Ideal for use in regulated applications

The high-quality PU tubes in the TU-X214 series have already proven their longevity and robustness in many different areas of use – and thanks to their FDA conformity this benefits regulated applications, such as those in medical technology, pharmaceuticals and the food industry, in particular. The key factors to ensure the FDA conformity mentioned previously include the use of resistant materials and the omission of any printing. This means that the PU tube can also be used in open processes in food production. “The positive characteristics of our TU-X214 series, such as the wide range of colours, offer benefits including the avoidance of possible mix-up risks during maintenance measures,” says Torsten Klein, Manager Strategic Markets Food at SMC Deutschland. “However, many operators also use FDA-compliant tubes in non-critical areas of their plants and machinery,” adds Klein. “The reason for this is as simple as it is plausible: they are erring on the side of caution.”

In detail – compressed air tube made from polyurethane series TU-X214

Model	TU0425	TU0604	TU0805	TU1065	TU1208
Exterior Ø [mm]	4	6	8	10	12
Interior Ø [mm]	2.5	4	5	6.5	8
Medium	Compressed air, water				
Max. operating pressure [MPa]	0.8 at 20 °C / 0.65 at 40 °C / 0.5 at 60 °C				
Applicable tubing/plug-in connection	Plug-in connection, threaded clamp connection, miniature threaded connection				
Operating temperature range	Compressed air: -20 °C to +60 °C Water: 0 to 40 °C (no freezing)				



Caption:

The PU tubes in the TU-X214 series by SMC are FDA-compliant for wide-ranging use in regulated applications in the food and pharmaceutical industries or in medical technology.

Photograph: SMC Deutschland GmbH

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Press release

Egelsbach, May 2022

Perfect for aggressive applications: Stainless steel cylinder from SMC

The new stainless steel cylinders of the CG5-X2977 series from SMC are designed specifically for use in wet or aggressive environments. The exterior elements are made of rustproof stainless steel and sustainably resist attacks by acids, alkaline solutions and aggressive cleaning agents. The stainless steel casings of the cylinders are round and executed entirely in the Clean Design.

This is evident in the hygienic cushion adjustment screw, the flattened connection area for the installation of fittings with straight threads and the fact that a laser marking on the surface serves product identification purposes, instead of a label. With no corners and edges, the cylinders are quick and efficient to clean. Dirt or germs have no chance. Operators benefit from high system availability thanks to the short cleaning time required. The cylinders of the CG5-X2977 series have a blue special scraper according to FDA and EU 1935/2004. This prevents water penetration and meets the requirements of American and European food legislation. The new stainless steel cylinders are thus perfectly suited for use in the wet areas of the food and beverage industry as well as in parts of the chemicals and pharmaceuticals industry.

The right solution for any purpose

The product range of the new stainless steel cylinders of the CG5-X2977 series comprises 8 designs with bore sizes ranging from 20 to 100 mm. The two smaller variants with bore sizes of 20 and 25 mm have strokes of up to 300 mm. With bore sizes upwards of 32 mm, strokes of up to 600 mm are possible. The maximum operating pressure is 1 MPa. Compressed air is used as the medium. Purely elastic damping washers can be used for shock absorption. If there are higher demands on damping, SMC also offers an air cushion for this stainless steel series.

Lower production costs – global use

Torsten Klein, Strategic Market Manager Food at SMC, sees an important benefit for users in the complete Clean Design of the CG5-X2977 series: “Smooth surfaces without corners and indentations allow for fast and efficient cleaning. This ensures high system availability and low production costs. In addition, global use is possible through the use of materials compliant with the FDA and EU 1935/2004. Machine manufacturers therefore don’t have to worry about where their machines will be used, or even about converting them.”



Caption:

Made for use in wet and aggressive environments. The rustproof stainless steel cylinders of the CG5-X2977 series in the Clean Design. Easy and efficient to clean and globally usable through the use of materials compliant with the FDA and EU 1935/2004.

Photograph: SMC Deutschland GmbH

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Press release

Egelsbach, May 2022

Full power – including in the splash zone: New Clean Design manifold valves from series JSY5000-H

Requirements with respect to cleanliness are particularly high in the food industry. For this reason, components must satisfy the highest standards with respect to cleaning and offer appropriate evidence of conformity – while simultaneously impressing with their performance. In the shape of the JSY5000-H series, automation specialist SMC has now developed a new Clean Design manifold valve that also enables use in the splash zone and hence as close as possible to the application. In addition, the solution features materials compliant with protection class IP69K and U.S. Food and Drug Administration (FDA) standards, stands out with a flow rate of up to 1600 l/min (ANR) with low power consumption and can be easily connected using IO-Link.

Manifold valves for pneumatic applications are used across industries. The food industry stands out in particular thanks to its requirements: to guarantee food safety, the components used there must be easy to clean thoroughly without residues remaining or the danger of malfunctions due to cleaning. To enable design engineers in the food sector to design machines to be compact and reliable at all times, SMC has developed the Clean Design manifold valves in the JSY5000-H series. In this way, the specialist in pneumatic and electrical automation offers an FDA-compliant solution that can also be used in the splash zone and enables purification with high-pressure cleaners and at high temperatures of up to 80 °C. In addition, short cycle times can be realised thanks to a flow rate of up to 1600 l/min (ANR) with simultaneous low energy requirements thanks to an energy-saving circuit. Depending on the application case, there is a choice between a manifold or a single valve, the communication of which also takes place via IO-Link.

Guaranteed food safety

The new manifold valves in the JSY5000-H series are executed in the Clean Design, with a gap-free exterior and a space between the valve discs that enables the easy outflow of cleaning fluids without the disassembly of the manifold. To avoid malfunctions, it complies with protection class IP69K, which prevents the trapping both of solid materials such as dust as well as of liquids – even in the event of high-pressure cleaning with temperatures of up to 80 °C. Safe and reliable operation in the food

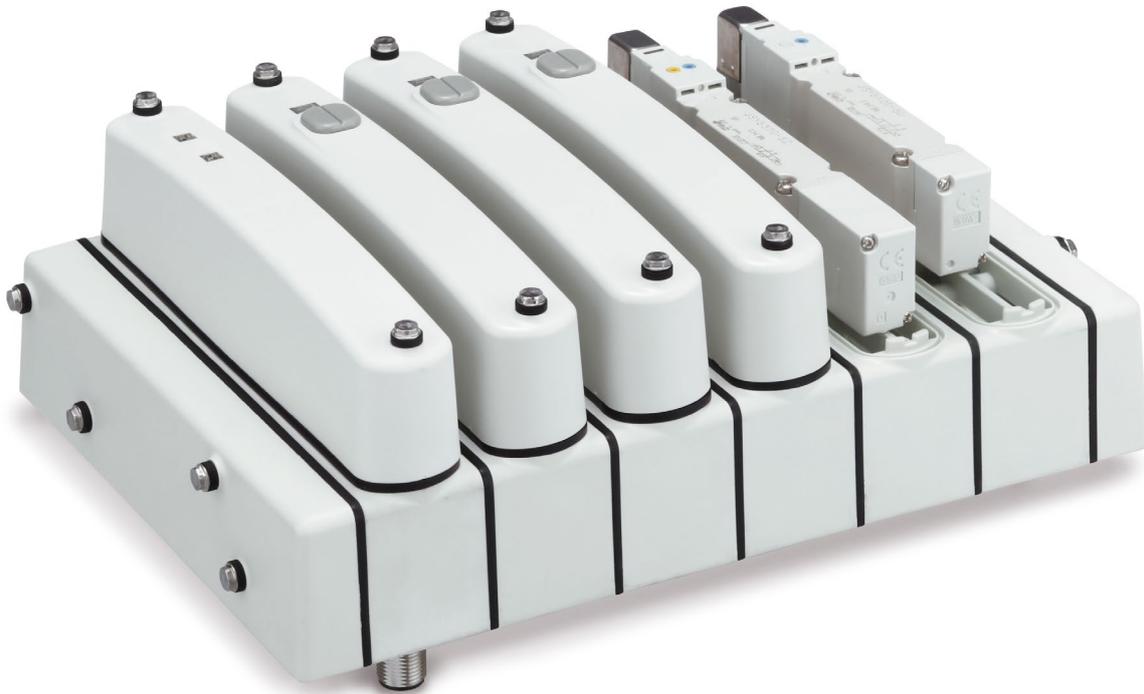
industry, including in the splash zone, is rounded off by materials that meet the requirements of the U.S. Food and Drug Administration (FDA), metal parts made from stainless steel 316 with high corrosion resistance, and food-safe NSF H1 lubricant.

Alongside the benefits mentioned in terms of construction, additional advantages arise through the compact design with diameters of 81 x 166 x 233 mm (H/W/D) in the event of 5 stations – the valve width of the single valve is just 15 mm. The choice of manifold or single valves (in the type with mounting bolts or with a plug-in connection) provides an increased variety and also enables single valves to be installed as close as possible to an application instead of in control cabinets. In the event of different pressures, a manifold block assembly can also be used as a supply and venting module. In short, small and hence space-saving machine designs are possible, including short pipes and installation close to the process. In addition, the design reduces maintenance times and costs.

Powerful and communication-strong

Despite its compact construction, the JSY5000-H series enables a flow rate of up to 1600 l/min (ANR) and so provides for high throughput and an increase in productivity in the food sector. It is also a genuine energy saver: even in the standard version, power consumption is just 0.4 W. It can also be fitted with an energy-saving circuit, which reduces power consumption after switch-on to as little as 0.1 W. This allows operators to increase their productivity while simultaneously lowering their energy consumption and so their energy costs, which also has a positive impact on sustainability.

Via a single cable with an M12 connector, both the power supply and data transmission to an IO master unit can be realised. This means that the machine design doesn't require plug-in fittings and other additional devices, which reduces wiring and wiring work and saves on expenses once again. The new IO-Link-compatible module EX430 that is used can be connected with various Fieldbus protocols via an IO-Link master. By means of serial communication, all numerical valve values can be called up and the remote control of industrial networks can be realised. This means that design engineers have better control over their applications and get more meaningful data and an integrated product diagnosis. They can also manage set-up more quickly after a product change and can employ standard wiring.



Caption:

The new manifold valves from the JSY5000-H series also enable use in the splash zone thanks to Clean Design and compliance with protection class IP69K, impressing with a flow rate of up to 1600 l/min (ANR), while being simultaneously low-maintenance, easy to install and energy-saving.

Photograph: SMC Deutschland GmbH

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