

Star of the big screen: the new VPPI proportional pressure regulator from Festo

If you are a fan of the big screen, you are going to love the new VPPI proportional pressure regulator from Festo. It features a large, high definition display that makes set-up and diagnosis a doddle.

A strong and silent type, the VPPI proportional pressure regulator delivers outstanding performance in various roles within the electronics, machine tool, assembly technology and food and packaging sectors – such as regulating pressure, testing, dispensing, press and press-fitting. Its quiet operation also makes the VPPI a class act in desktop and laboratory applications.

The VPPI has a flow rate of up to 1000 litres/min and a port size of 1/8". Highly dynamic to 30Hz, it offers precise and stable operation in vacuum applications as well as tasks up to a pressure range of 12 bar.

Star qualities

The HMI properties of the VPPI are a major benefit for users, saving time and simplifying programming and fault diagnosis. A high definition TFT display makes information clear and easy to read. It is large enough to communicate using complete words and not just abbreviations or fault codes, so there is no need to refer to a separate operator manual. The display can be rotated depending on whether the device is mounted vertically or horizontally, making it easy to read even in confined conditions. The large screen is complemented by three large function buttons, which make the device easy to program and interrogate.

The VPPI allows customers to regulate pressure dynamically and precisely by specifying a setpoint. Three preset performance levels are possible: for small volumes, large volumes or continuous flow. In addition, a customer-specific preset enables users to achieve a suitable, independent control behaviour. This preset value also speeds up the adjustment of the setpoint value, since the regulator adapts to the application.

The precise and highly dynamic VPPI is directly actuated in all sizes within the range, with no need for preliminary stages or pilot valves. This results in a rapid, repeatable dynamic response and virtually eliminates the noise and heat associated with 3/2 mechanical valves.

Flexibility is another star quality. It is possible to connect up to five VPPIs together on a common pressure supply without the need for a separate manifold, reducing complexity and the potential for leakage. DIN rail and other mounting options enable other configurations too, giving users the ability to create pressure zones.

The VPPI family contains eight variants, with or without the display option. Combined with the wide pressure range and flow rates, this enables users to specify a single family of proportional pressure regulators for all their needs: simplifying purchasing and maintenance.

15. September 2020

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Festo GB & IE

About Festo

Festo is a leading international supplier of automation technology with a turnover in 2024 of around €3.45 billion. Festo employs over 20,000 people worldwide and is a proven innovator and problem solver in pneumatic and electrical automation, where it is the performance leader. Festo offers around 36,000 pneumatic and electric products in hundreds of thousands of variants for factory and process automation technology, many of which can be tailored to specific customer needs. Sustainability, reducing its CO₂ footprint, digital learning, innovation, performance and speed are the key drivers for the company's future. Festo GB operates as a carbon neutral organisation and uses the PAS 2060 standard externally audited by NQA to validate this claim to customers, employees and other stakeholders.

Festo Industrial Automation's innovative strength is demonstrated through the launch of around 100 new products every year. The company invests over 8.5% of its turnover in R&D, resulting in over 2,600 patents held worldwide. For more information about the company's products and UK / Irish services, please visit: www.festo.com/gb and www.festo.com/ie
Festo and Industry 4.0 - Festo has engaged with the Industry 4.0 initiative from its inception: as a user, manufacturer and trainer. As a member of the steering group, the company has taken an active role in defining the core standards such as the RAMI model and the Administration Shell. Festo Didactic has installed Industry 4.0 Cyber-Physical Factory training hardware systems in many leading universities and training centres. It also provides Industry 4.0 training courses for change managers and practical workshops for employees. Industry 4.0 technologies such as OPC-UA communications are embedded in the latest generation products. For more information, go to www.festo.com/digitalisation

Festo Didactic training delivers training for industry – by industry. Combining Festo's industrial heritage with its future-focused manufacturing and engineering expertise to deliver courses for greater productivity and competitiveness. Offering a wide range of open courses, structured development programmes and tailor-made, customer-specific projects on technology and Industry 4.0 and the industry-leading online training suite, Festo LX. Festo also provides state-of-the-art training equipment solutions for industrial companies and educational institutions around the world. Festo Didactic has around 56,000 education customers worldwide. More information on Festo training and consulting services can be found at: www.festo.com/didactic

Festo Bionic Learning Network encapsulates the innovative nature of Festo, raising awareness and attracting talent to the company. Exploring the links between nature and technology opens new areas of innovation and demonstrates complex ideas in a stimulating and enjoyable way. Festo works with an alliance of internal R&D, external educational establishments and specialist companies to advance bionic solutions for automation applications of the future. The objective is to benefit from bionics as a source of inspiration and to realise these in industrial automation. For more information about Festo's Bionic Learning Network, please visit: www.festo.com/bionics