



Press Release

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APV introduces its new APV DELTA MS4/MSP4 aseptic valve series

Boosting reliability and service life to achieve lower cost of ownership.

The APV DELTA MS4/MSP4 aseptic valve series is the latest innovation from APV, an SPX Brand. The valves feature a new single layer PTFE diaphragm and fan support system for greater durability and flexibility. Designed for aseptic applications in the food, beverage, pharmaceutical and chemical industries, these 3A and EHEDG certified valves give extra meaning to reliability, service life and cost of ownership.

New 3A certified range

Specifically designed for aseptic production processes, the valves will completely replace the full range of APV DELTA M4 and MP4 valves. The design specifically addresses critical issues affecting the impact of operational reliability and service life on total cost of ownership of aseptic valves.

New fan support system means even greater reliability

DELTA MS4/MSP4 features unique technology and APV has submitted a patent application for its innovative diaphragm fan support mechanism. The new fan support mechanism relieves process pressure on the diaphragm, thus significantly extending its lifetime. The fan support also enables reliable operation in low temperature and low operating pressure applications.



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“The new fan support system is the first of its kind in the market and positions APV well when it comes to operational reliability and equipment lifetime,” says Herbert Timmermann, Product Manager-Valves at APV’s operation in Germany.



Focus on flexibility

The single layer PTFE diaphragm means that the new APV DELTA MS4/MSP4 series is unique in the market because it is able to handle high operating pressures of up to 10 bar depending on size.

“We know how important a powerful combination of reliability and flexibility is to our customers,” Herbert Timmermann continues. “3A certified stainless steel contact surfaces together with the PTFE diaphragm ensures smooth product flow and reduces pressure drops. This means that the APV DELTA MS4/MSP4 valves can be used for aseptic applications, including those involving high-fibre products for which bellow valves are not suitable.”

Coming clean on CIP and SIP

In contrast to standard elastomers, the single layer PTFE diaphragm enables the use of a wide range of cleaning agents and products at higher temperatures than other diaphragm materials allow. This enables faster CIP by ensuring reliable cleaning and sterilization of the diaphragm and other product wetted surfaces.

Easy maintenance access and simple conversion

The bolted housing closure ensures tight sealing and needs no retightening, even after many SIP cycles. The valve insert is easy to remove from the valve housing and changing the diaphragm is simple, thus reducing maintenance downtime.

Conversion kits for upgrading existing DELTA M4/MP4 valves enable customers to leverage the features and advantages of the corresponding APV DELTA MS4/MSP4 valve at minimal expense.



About APV

APV, an SPX brand, is a prominent provider of high quality process technologies and engineering solutions for the food, pharmaceutical, healthcare, power generation, chemical and petrochemical industries. APV's range of manufactured products includes heat exchangers, water desalination units, homogenisers, as well as pumps and valves for hygienic and non-hygienic applications. APV solutions are supplied through its global network of sales and service offices.

About SPX

SPX Corporation is a Fortune 500, global multi-industry manufacturing company. Headquartered in Charlotte, North Carolina, SPX employs more than 17,000 people worldwide and has operations in over 35 countries.

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