

Multi-port valve blocks: Ultra pure water dosage Packaging of sterile plastic components

In the pharmaceutical or medical industry, the packaging of sterile plastic components places stringent requirements on process system safety. Depending on the product, gentle handling is just as important as precise dosage of protective solutions and sterile liquids, such as ultra pure water.

As a specialist manufacturer of packaging machinery and web processing systems for the medical and pharmaceutical industries, the company Harro Höfliger relies on GEMÜ valve solutions for its customer-specific production and packaging lines.

Where simple, wear-susceptible pinch valves were previously used for ultra pure water dosage, GEMÜ's multi-port valve block now offers a significantly more compact and secure solution. In addition, they allow far more precise dosing of liquids.

GEMÜ block solutions for ultra pure water dosage



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*Multi-port valve block by GEMÜ with valves of the iComLine® series
in the Harro Höfliger packaging machine*

Before closing the individual packaging, the contents are moistened with ultra pure water. To do so, the individual trays are arranged on a turntable. When these are positioned under the multi-port valve block, the ultra pure water dosage starts in a time-based manner via twelve dosing stations.

The multi-port valve block is manufactured from highly resistant PTFE and enables precise dosage. For a dosage of three millilitres of ultra pure water, the pneumatically operated actuators of the iComLine® series open for 60 milliseconds.

Advantages of multi-port valve blocks

Multi-port valve blocks combine several valve seats in one unit. As this cuts down on numerous pipes and fittings, it allows a much more compact plant construction. At the same time, the number of welded or solvent cemented joints is reduced which leads to a considerable increase in plant reliability due to the avoidance of leaks. Quick and easy assembly of the customized units reduces the additional assembly time required and saves costs. Despite being compact, the pneumatic actuators are designed to be maintenance friendly.