

Detergent Dosing Stations for Industrial Laundries

Compact and efficient plant design with GEMÜ multi-port valve blocks

The Seitz company from Kriftel, Germany produces a wide variety of detergents for industrial laundry applications as well as automated systems for dosing these detergents. Compact multi-port valve blocks from GEMÜ are the key element in these systems as they make the corresponding dosing, distribution and flushing functions possible.

Process Description:

Automated detergent dosing stations provide industrial laundries with flexibility, allowing them to adjust the required detergent composition individually to each specific cleaning program. Depending on the water hardness and the type and level of soiling, the cleaning agents, special additives and care products can be dosed to match the type of textile being washed. In conventional dosing station designs, separate dosing pumps are required for each washing machine and medium. This results in a large number of pumps, tubing, unions and distribution components, which require intensive maintenance and calibration work.

GEMÜ Products In Use:

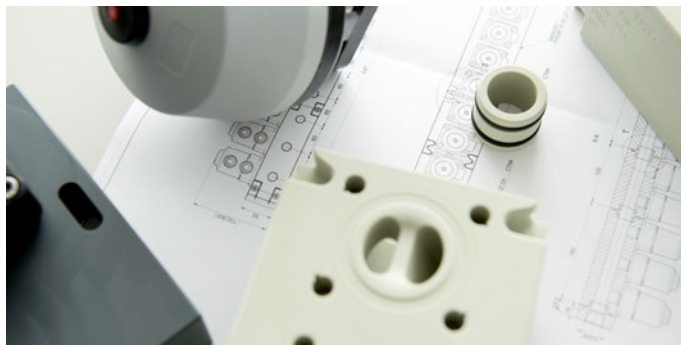
- Plastic multi-port valve blocks GEMÜ P600 M-Block – consisting of one or more diaphragm valve seats, resistant to aggressive media thanks to the high-quality plastic selection
- Flowmeter GEMÜ 800 – reliable with a permanent, engraved scale

Multiple functions in one GEMÜ M-Block:

In order to achieve a more compact design, all dosing, distribution and flushing functions are combined in one multi-port valve block. The dosing pump for each medium is connected to a flowmeter which is connected directly to the multi-port valve block. The valve block consists of 3 rows of pneumatically actuated diaphragm valves: the first valve row at the bottom doses the medium. Depending on the requirements, quantities of 10 – 200 ml are dispensed; the second valve row controls to which washing machine the medium is sent; and the upper, third row of the valve block is used to flush the unit with water after each dosing.



Highly resistant GEMÜ M-Block made of PTFE with flowmeter for detergent dosing and distribution



Advantages at a glance:

Fewer components

The use of GEMÜ M-Blocks allows the number of pumps, tubes and fittings to be kept to a minimum. In such modern dosing installations only one pump is required per medium and multiple washing machines can be supplied with one dosing station.

Improved plant reliability

Fewer joints and fittings result in an improved plant reliability and a reduced risk of leaks.

Simple installation

Quick and easy assembly of the customized units also reduces the assembly time required and saves installation costs.

Expand existing plants

Existing units can be extended by the required number of valves with just a few simple modifications without the need for additional piping, solvent cemented joints or welds.



Why GEMÜ:

GEMÜ offers technically mature technology and tailor-made valve solutions for detergent dosing in industrial laundries. With the GEMÜ multi-port valve blocks, not only is a compact plant design achieved, but also increased plant reliability with reduced potential leakage points. At the planning phase we support our customers with ideas and initial drafts. The

drafts are laid out for design purposes in the 3D CAD system, agreed in close cooperation with the customer and finally processed in a state of the art efficient machining centre. Every day, our Design Centre brings forth new customised block designs. Whatever you envision and is technically feasible, becomes a reality at GEMÜ.

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