



## Hot water and steam injection in industrial washing and drying plants

### Valve technology for wash-media circulation and process control

In hospitals and hotels, as well as in large companies, large quantities of dirty laundry are continuously produced. High capacity industrial washing machines and dryers are required for cleaning these heavy loads. Industrial washing machines are specially designed for the users' needs. GEMÜ offers well suited valve solutions for the supply of hot water and steam to industrial laundry machines.

#### Process Description:

To begin the washing process, the drum is first filled with hot water, at up to 203 °F, over a controllable valve. Cold water is then fed through a second control valve until the required washing temperature is reached. Depending on the type and quantity of laundry, temperature fluctuations occur during filling and operation. In order to ensure an optimum water temperature during the entire washing cycle, hot or cold water is additionally dispensed through the controlled systems on demand.

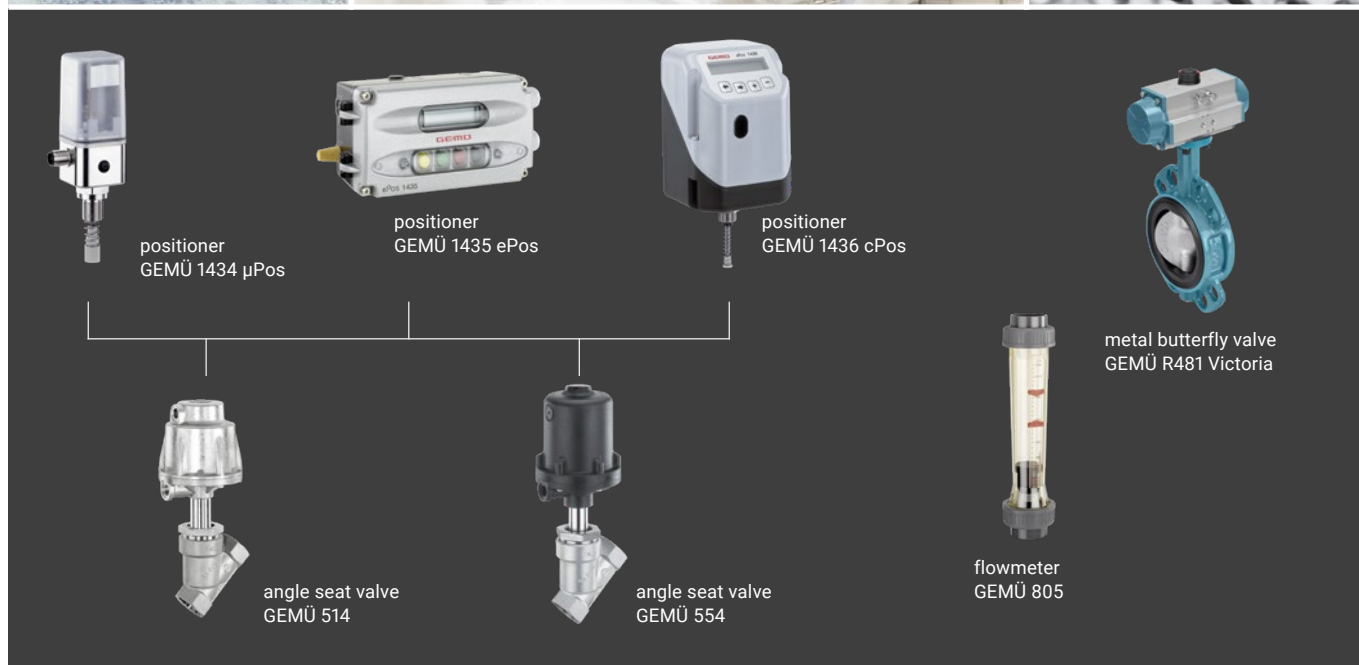
After washing, the textiles are transferred to a dryer. Depending on the application, they are dried with hot air or additionally with steam. In the steam dryer, after drying for several minutes, steam penetrates the moist textiles in an additional cycle to soften the fabrics and smooth wrinkles.

#### GEMÜ Products In Use:

- GEMÜ 514 or GEMÜ 554 angle seat valves – for high media temperatures, equipped with a control cone for precise control applications
- GEMÜ 1435 ePos electro-pneumatic positioner – detects the valve position with an external sensor for temperature control
- GEMÜ 805 flowmeter – reliable with a permanent, engraved scale
- GEMÜ R481 metal butterfly valves – robust shut-off function capable of handling fibrous contaminants, present in wash water circulation

#### Key Process Data:

- Media: hot and cold water, hot air and steam, particle-containing dirty water
- Operating Temperature: up to 280 °F



## Why GEMÜ:

GEMÜ offers technically mature solutions, tailor-made for industrial washing machines and dryers. With a wide range of GEMÜ valves and accessories, the complete valve selection, as well as measurement and control instrumentation are supplied from a single source.

The GEMÜ 1435 ePos positioner ensures a particularly flexible design. It can be installed on the valve as an ON-TOP version or placed remotely for convenient access.

This allows for a flexible system design and protects the positioner from high temperatures and other environmental influences. GEMÜ control valves for control tasks in hot water and steam feed are of robust design and optimised for quick reaction times.

For precise adjustment, our specialists will be happy to support you directly in the sizing and selection of our control valves.

### GEMÜ Valves Inc.

3800 Camp Creek Parkway · Suite 120, Building 2600  
Atlanta, Georgia 30331  
Phone: +1 -678-5 53 34 00 · [info@gemu.com](mailto:info@gemu.com)