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ACHEMA HIGHLIGHTS – JOINT ISSUE OF CHEMIE TECHNIK 8 / PHARMA+FOOD 5

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- Automation, digitisation
- Pharmaceutical production and packaging
- Thermal processes
- Mechanical processes
- Pumps, compressors, valves

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**CHEMIE
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ACHEMA 2018

Review of the most important trends and developments

Novelties report on pumps, compressors and valves

Novelties report on pharmaceutical production and packaging

Novelties report on automation and digitisation

Novelties report on mechanical processes

Novelties report on thermal processes

AUTOMATION, DIGITISATION

Fieldbus indicators as local windows into the process

Even in times of Industry 4.0, local indicators are still en vogue: they help plant operators to quickly obtain an overview of the situation in the plant. It is particularly clever if the indicators listen on the fieldbus and can pick up and display various measurement parameters.

Digitisation on speed: interview with Dr. Jürgen Brandes, CEO Siemens Process Industries

The digitisation train is also picking up speed in the process industry. From Siemens' point of view, however, this could be done much more quickly. Dr. Jürgen Brandes, CEO of the Process Industries and Drives business unit, explains in a CT interview why speed is so important.

Digital in six months

More effective systems with reduced costs at the same time: the digital service BCAP makes industrial plants fit for the digital era.

Automation helps to operate ultra-pure media systems safely

Automation plays an important role in the safe operation of ultra-pure media systems. The European Pharmacopoeia emphasizes in particular the importance of monitoring for systems for cold WFI production. Many existing plants can also be retrofitted.

THERMAL PROCESSES

Energy-efficient electrical heating of process lines

Nvent Raychem heating monitoring systems keep critical process lines running by monitoring energy consumption while protecting piping and equipment from freezing and overheating.

BULK MATERIAL AND MIXING TECHNOLOGY

Coating improves powder handling

Coating is a typical process in powder handling. Sometimes powder is coated to reduce its cohesiveness, for example to improve flowability; sometimes to increase its cohesiveness, e.g. to manufacture low dust products. Both procedures are very similar.

Fluid bed dryer and granulator have merged

The sequence of several batch processes makes the production of specialty chemicals and pharmaceuticals complicated. Glatt has now combined two previously separate processes - high-shear granulation and fluid bed drying - in a continuous batch process. The elimination of wet screening and product transfer eliminates one critical step.

Self-cleaning filters and containers

Wolftechnik has developed and enhanced a self-cleaning filter in cooperation with the University of Karlsruhe. The task was:



Image: Bilfinger



Image: Glatt



Image: Editorial team



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1/1 page	5,630.–	6,730.–
Junior page	3,265.–	4,125.–
1/2 page	2,815.–	3,675.–
1/3 page	2,110.–	2,970.–
1/4 page	1,540.–	2,090.–
1/8 page	850.–	1,400.–



For further information:

Tel.: +49 6221 489-225

christine.grimm@huethig.de

how can dead spaces and other spots where deposits may form be avoided by introducing a new design?

Magnetic agitators for bioreactors

The scale-up of bioreactions from laboratory to industrial scale is often difficult. In autumn 2016, a magnetic bottom agitator was developed which permits mixing processes in large-scale bioreactors with working volumes of more than 15,000 l with a sterile design and thus opens up new applications, e.g. in the pharmaceutical industry.

PUMPS, COMPRESSORS, VALVES

Root cause analysis via machine learning

The technical interrelationships in process engineering plants are complex - usually too complex to obtain usable statements with pure big data analyses. To make progress here, the valve manufacturer Samson has acquired a majority stake in

the Israeli start-up Visual Processes. Its machine learning system is intended to provide a deep insight into the cause-and-effect mechanisms of plant failures.

New screw spindle pump for the chemical industry

Achema 2018 was not short of novelties and innovations. Among other things, the Austrian manufacturer Kral presented a new screw spindle pump characterised by its particularly clever design which relieves the spindle of the pressure build-up.

Interview with Sebastian Dahlke, Hermetic-Pumpen GmbH

Pumps - and in particular hermetically sealed pumps with canned motor - are products in need of explanation. Hermetic-Pumpen GmbH took this as an opportunity to develop a new interactive planning tool to support decision-makers. In a CT interview Sebastian Dahlke, Managing Director of Hermetic, explains the goals of the project.