

# UPCOMING FEATURES

**NOVEMBER | AD CLOSE: OCTOBER 7 | MATERIAL DUE: OCTOBER 11**

## BONUS DISTRIBUTION

Valve World Expo (December 1–3, 2020 Dusseldorf, Germany)

## VALUE ADDED

### Valves

Whether manually, electronically or pneumatically operated, valves are critical pieces of technology across the chemical process industries (CPI). They are employed for a wide range of applications related to controlling the flow of materials through a process, or for relieving pressure in the event of an over-pressurization situation.

In November 2020, Chemical Engineering will publish the Valves 2020 Special Ad Section. Advertisers running a display ad will receive a bonus advertorial write-up of the same size (up to 1/2 page). This is the most economical way to get your message into the hands of the CPIs critical decision-makers.

## FOCUS ON E-NEWSLETTER:

This monthly e-newsletter is sent to a targeted database determined by the subject matter of each technical report. The November e-newsletter with cover Valves and deploys November 12.

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## TOPIC: HEAT TRANSFER

### FEATURE REPORTS

**Summary:** Heat transfer is integral in nearly all chemical processing operations, and this month's two-part Feature Report looks at different heat-transfer considerations for solids and gases. Part 1 focuses on moving-bed heat exchangers for heating or cooling bulk solid materials. This article provides information on how such heat exchangers operate and the mathematical equations governing the heat-transfer process between the bulk solid material and the heat-transfer fluid. Part 2 examines the challenges in modeling gas flow in piping systems (compressible flow) when compared to modeling liquid flow (incompressible flow). Such challenges arise because the flow behavior, among other things, relies heavily on temperature. Two common assumptions in gas handling processes are adiabatic flow and isothermal flow. This implies the perfect amount of heat is transferred between the system and surroundings to keep the fluid temperature constant. This article discusses how deep analysis can be done using modeling software that simultaneously solves the complicated momentum, energy and mass balances of compressible flow.

**Related equipment and services:** Heat exchangers, heat-transfer fluids, bulk solids hoppers, solids handling equipment, temperature sensors, software used for modeling heat transfer and gas flow

**Relevant industries:** Chemicals, gas handling, food, pharmaceuticals, agricultural fertilizers and others



## TOPIC: VALVES

### FEATURE REPORTS

**Summary:** Chemical plants and other heavy industrial facilities typically contain many pneumatically controlled valves, actuators and instruments. Airset devices are commonly used to regulate the supply of air pressure to these components. An airset is a specific type of direct-operated, pressure-reducing regulator with an integral filter. It is often overlooked in design, but proper selection is needed for safe and effective operation, which is critical as these devices are often used in emergency shutdown and other demanding on/off valve applications. Such topics are discussed in this month's Feature Report.

**Related equipment and services:** All types of valves

**Relevant industries:** All sectors of the chemical process industries (CPI) use valves

## TOPIC: SOFTWARE

### NEWSFRONTS

**Summary:** Whether providing overarching infrastructure support, holistic data management or in-depth design and simulation, software platforms are foundational in any organization's digitalization journey. This Newsfront covers advances in industrial software tools used for a variety of essential CPI tasks.

**Related equipment and services:** Software products of all types, including those used for data analytics, process design, simulation and modeling, cost engineering, maintenance and scheduling, project management and more

**Relevant industries:** All sectors of the CPI use software

Editorial material for consideration should be sent to senior associate editor Mary Page Bailey

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## TOPIC: TANKS & VESSELS

### FACTS AT YOUR FINGERTIPS

**Summary:** Atmospheric storage tanks are widely used across the CPI to store a variety of liquids. This one-page reference reviews the potential problems associated with atmospheric storage tanks and how to avoid them.

**Related equipment and services:** Tanks and storage vessels, pumps, coatings, fittings

**Relevant industries:** Petroleum refining, petrochemicals, oil and gas, chemicals

## TOPIC: PROPIONIC ACID PRODUCTION FROM PROPIONALDEHYDE

### TECHNOLOGY PROFILE

**Summary:** Propionic acid is a naturally occurring three-carbon carboxylic acid that is used as a preservative for animal and human food because of its ability to inhibit the growth of mold and bacteria. This one-page process description will summarize the production process for propionic acid from propionaldehyde.

**Related equipment and services:** All general process equipment, including pumps, valves, piping, reactors, tanks, sensors and others

**Relevant industries:** Chemicals, food and beverage, petrochemicals

## FOCUS: BLOWERS, FANS & COMPRESSORS

### FOCUS

**Summary:** Moving or compressing air is a common operation in many applications in the CPI. They also consume energy to run them, so vendors are continuously developing new ways to improve the efficiencies. This month's Focus presents the latest blowers, fans and compressors introduced in recent months.

**Related equipment and services:** All types of fans, blowers and compressors

**Relevant industries:** All sectors of the CPI use compressors, and many also use fans and blowers, for example, in cooling towers, wastewater treatment plants, and more.

Editorial material for consideration should be sent to senior editor, Gerald Ondrey ([gondrey@chemengonline.com](mailto:gondrey@chemengonline.com))

## TOPIC: DUST CONTROL

### SOLIDS PROCESSING

**Summary:** Dust can be a safety hazard in processes involving solids handling, and can also cause operating problems and inefficiencies. Effective dust control begins with the design of the solids-handling system. This article provides information on how solids-handling system design can have a large impact on overall process safety and on the avoidance and mitigation of dust-related hazards.

**Related equipment and services:** Solids handling equipment, filters, cyclones, hoppers, dust-mitigation tools, cleaners, explosion suppression systems, anti-static equipment and coatings

**Relevant industries:** Any area where solids are involved, including chemicals, pharmaceuticals, polymers, mining, biomass, agriculture and others

## TOPIC: VALVE WORLD

### SHOW PREVIEW

**Summary:** Valve World Expo — the 12th International Valve Trade Fair and Conference is scheduled to take place December 1–3 in Düsseldorf, Germany. This month's Show Preview presents a number of the new products and services that will be exhibited at the Düsseldorf Fairgrounds.

**Related equipment and services:** All types of valves

**Relevant industries:** All sectors of the CPI use valves

Editorial material for consideration should be sent to senior editor Gerald Ondrey ([gondrey@chemengonline.com](mailto:gondrey@chemengonline.com))

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