



PUMPS THAT EXPERTS SELECT.

Selecting the Right Pump for Chemical Applications

Chemical Equipment's e-Update
Products, Systems & Services for the Global Chemical Processing Industry
February 16, 2005



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FEATURE

The chemical industry places high demands on pumps which are vital to uninterrupted production and to the assurance of health and safety compliance that are simply not present in other industries. By their very nature, chemicals create a wide-ranging set of circumstances that are unique and which make specifying and selecting the right pump a very complex and essential step in the production process.

As there are nearly a limitless number of applications in the chemical industry, it would be impossible to review each one in-depth. However, outlined below are several critical factors that should be carefully considered when selecting pumps for any type of chemical processing.

Compatibility: Pumps must be able to stand up to potentially harmful and corrosive chemicals. In most cases, pumps will be called upon to transfer or meter several different types of chemicals over their lifetime and this needs be factored into the equation when specifying a pump. Any compromises in pump material selection will result in pitting and corrosion which can lead to rapid reduction in performance and eventual pump failure.

Fluid Containment: Fluid containment and control of emissions is vital in the processing of chemicals. Pumps which contain no seals and that are completely self-contained are optimal in chemical applications as dry-running and abrasives or solids can cause failure in mechanical seals.

Accuracy: Pumps for use in chemical metering applications should be positive displacement pumps with no back-flow, siphoning or slip...

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FEATURED PRODUCTS

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Dry Screw Vacuum Pumps:

High CFM to horsepower ratios Cobra N single stage, direct driven rotary screw dry vacuum pumps are designed for difficult applications in the chemical and pharmaceutical processing industries...

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INDUSTRY NEWS

HART Survey Confirms Long-Term Growth:

The HART Communication Foundation (HCF) confirms that industry users and suppliers are firmly committed to the growth of the HART Communication technology for years to come. A new ARC market survey, sponsored by the HCF, recently investigated communication protocol plans of global users...

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Honeywell Wins \$6.5 M contract with Lyondell Chemical Company :

Honeywell announced it has received an eight-year, \$6.5 million Lifecycle Management (LCM) contract from Lyondell Chemie Nederland BV, the wholly-owned Dutch subsidiary of Lyondell Chemical Co...

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Lititz Wastewater Facility to Receive Operation and Maintenance Excellence Award:

The Lititz, Pennsylvania wastewater treatment plant, operated and maintained by Severn Trent Services, has been selected to receive the 2004 Plant Operation and Maintenance Excellence Award from the Eastern Pennsylvania Water Pollution Control Operators Association...

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Saudi Aramco Selects Usfilter Technology For Seawater Filtration:

US Filter, a Siemens company, has received a multi-million dollar order to supply 20 horizontal sand filters for the Ain Dar and Shedgum seawater filtration project for Saudi Aramco's Qurayyah Seawater Treatment Plant located in the Kingdom of Saudi Arabia...

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Worldwide Market For Thin Film Raw Materials To Reach \$13.5 Billion By 2009:

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