



OUR PUMPS START WITH YOUR SPECS.

Process Pumps for Special Applications



LIKE YOU, WE BELIEVE IN PRECISION

As an engineer, you rely on precise measurement and control to assure that your process performs consistently. Reliable transfer of process media depends on specialized pumps that operate continuously in critical environments without contaminating the liquid or gas used in the process.

KNF PROCESS PUMPS EXCEL IN DEMANDING ENVIRONMENTS

KNF designs and manufactures diaphragm pumps for sampling, transferring, evacuating and compressing process media for many industrial applications. Our oil-free diaphragm pumps meet discerning engineer's requirements for robust and contamination-free performance under the most challenging and corrosive conditions.

WE MANUFACTURE SPECIALIZED PUMPS FOR:

- **Exhaust emission and stack-gas sampling –**
Heated-head and heat-resistant pumps maintain sample temperatures to assure integrity of analysis, and perform continuously with media temperatures up to 460°F (240°C).
- **Hazardous materials and environments –**
Pumps are offered with explosion-proof motors rated for NEC Class 1, Div 1, Groups C & D locations. Also included are complete pumps designed and certified to ATEX standards.
- **Rare and dangerous gases –**
Pumps fitted with secondary safety diaphragms back up the working diaphragms to provide ultra-low leak rates and gas-tight performance. This affords an extra level of safety when transporting and evacuating toxic, radioactive and costly gases.
- **Pilot plants requiring precision transfer –**
High flow sample pumps and compressors meet the flow and vacuum requirements of the process industry with durable, corrosion-free performance. KNF electrically-operated diaphragm pumps offer the highest flows in the industry with superior performance, corrosion resistant designs, and durable construction.



50 YEARS OF ENGINEERING QUALITY

Engineers rely on KNF process pumps in portable and fixed monitors, free-standing systems, and pilot and full scale production plants. They are used throughout the world by industries that produce chemicals, plastics, paper and pulp, semiconductors, food and pharmaceuticals, and perform mining, power generation and environmental monitoring.

KNF facilities comply with ISO 9001:2000 quality standards. ISO 9001:2000 is a rigorous international quality standard that is accepted worldwide.

AN INNOVATIVE APPROACH

Diaphragm pumps provide robust, low-maintenance and contamination-free performance with a low cost of ownership. Our engineers were the first to develop the following innovations:

- **The structured diaphragm –**

Using the FEA design process, this patented diaphragm dynamically improves performance while extending service life.

- **Solid PTFE resin pumps –**

Engineered to handle aggressive gases and liquids without corrosion.

- **Heated head diaphragm pumps –**


High head temperatures prevent sample condensation, assuring gas sample integrity while protecting the pump components from corrosion.

MADE IN THE U.S.A., GERMANY AND SWITZERLAND

KNF process pumps are manufactured in the U.S.A., Germany and Switzerland using the latest, computer-automated equipment.

KNF Neuberger Inc. (USA) is wholly-owned by The KNF Neuberger Group, a multi-national corporation headquartered in Germany. With operating companies and research centers in Europe, Asia and the USA, KNF has the true depth of capabilities needed to address present and future technical challenges.

For more information on how we can address your specialized pump needs, call 609-890-8600 to speak to one of our engineers, or visit www.KNFprocess.com.



Every KNF process pump is built to provide rugged, durable pumping performance in a wide variety of industrial applications. Our diaphragm design assures your pump is engineered to last.





In-house machining of internal parts minimize costs while maintaining the highest quality.



Advanced coordinate measurement instruments seek out minute flaws that could hamper pump performance.



Automated assembly lines assure that our pumps are assembled in the most efficient, consistent, cost-effective manner.

KMF
PROCESS



ENGINEER TO ENGINEER

KNF
PROCESS

CUSTOMIZATION YOU CAN RELY ON

Engineers like you rely on engineers like us to design and build precision customized pumps for challenging applications. With our extensive experience, we will modify our products to optimize materials of construction, motor types, and configurations to fit your specifications.

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PROCESS PUMPS SPECIFICATIONS CHART

Custom pumps may be built to your specifications – find out more at: www.KNFprocess.com

PUMP FEATURES/ CAPABILITIES	FLOW RATE RANGE	MAX VACUUM RANGE	MAX PRESSURE RANGE
High Capacity Pumps	25 to 300 L/min 0.88 to 10.6 SCFM	27 to 29.5 in Hg 100 to 14 mbar 75 to 11 Torr	29 to 176 psig 2 to 12 bar G
Double Diaphragm Pumps	4.5 to 280 L/min 0.16 to 9.9 SCFM	29.8 to 22.5 in Hg 250 to 3 mbar 188 to 2 Torr	9 to 44 psig 0.6 to 3 bar G
Heated Head/Heat Resistant Pumps	6 to 100 L/min 0.21 to 3.53 SCFM	21 to 24.6 in Hg 300 to 180 mbar 225 to 135 Torr	20 to 22 psig 1.4 to 1.5 bar G
Hazardous Location Pumps for Class 1, Div 1, Groups C & D or ATEX	7.5 to 300 L/min 0.26 to 10.6 SCFM	25.8 to 29.86 in Hg 140 to 2 mbar 105 to 1.5 Torr	0 to 60 psig 0 to 4.1 bar G
Liquid Pumps	1.3 to 3 L/min 0.34 to 0.79 SGPM	768 - 719 mbar 2.5 - 3 mWg 8 to 10 ft H ₂ O	15 - 85 psig 10 - 60 mWg 33 - 196 ft H ₂ O

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