

APV supplies the food, dairy, beverage and healthcare industries with innovative products, process solutions and support services. As part of SPX, we combine expertise in process technology with leading intelligent automation systems.



APV PARAFLOW - PLATE & FRAME HEAT EXCHANGERS



Provides an unmatched range of plate heat exchangers that feature:

- 3A and FDA compliant
- Compact Size
- Optimum run time
- Durable construction
- Duo-Safety systems
- Flexible configurations

- Designed for ease of inspection and cleaning
- Efficient operation
- Multiple duties in a single frame
- Maximised regeneration during heating and cooling
- Genuine APV Aftermarket Parts
- Re-gasketing, Testing and Inspection services by APV Service Centers

Request Brochure 1025-01-06-2008-US

R5 Quad-Drive, designed for Sanitary applications is the newest addition in a long line of PHE innovations. The Quad-Drive incorporates an intelligent hydraulic closing unit that is factory set to close to the proper pitch. Any changes in the field can be reprogrammed into the PLC by the end user with a security-protected code.

Easy to Maintain

- Accessible plate pack
- External oil-level gauge
- Simple drive-chain adjustment
- Sloped surfaces to eliminate pooling
- Easy one-man operation (open and close)

Easy to Install

- Self contained closing system
- Fixed overall length
- Flexible design
- Requires only one simple electrical connection

Easy to Save

- Reduces maintenance time and cost
- Optimizes gasket and plate life

Easy to Control

- Easy plate pack modifications and plate pitch adjustments
- Run-time display
- Intuitive touch-screen user interface

Request Brochure 1029-01-08-2008-US

Binary-Drive - PLC-Controlled or Manual-Closing V028, APV raises the standard for process efficiency, and reliability with the Vega Binary-Drive Heat Exchanger. Super hygienic/sanitary Vega Easyflow plates are ideally suited for a wide range of food processing, dairy, beverage, pharmaceutical and cosmetic applications, offering superior performance under the following conditions:

- Where there is a tendency for the product to foul the heated surface
- Where large temperature-induced viscosity changes are likely to occur
- When processing viscous and non-Newtonian processed foods including stabilizers



Request Brochure -1100-01-08-2008-US

CENTRIFUGAL & POSITIVE DISPLACEMENT PUMPS

The APV WS+ High-Efficiency Pump uses less energy than competing self-priming pumps, while delivering flow rates up to 396 gpm and pressure levels up to 87 psi (6 bar). The WS+ dramatically reduces noise and can be easily customized to meet the needs of a variety of applications. Because the WS+ is based on the W+ series, many of the spare parts are identical, reducing inventory requirements.

The innovative design features new air screw and impeller technology, and a single mechanical seal with an optional flushed version.

- Easy to clean
- Interchangeable with W+Centrifugal Pump parts
- Extended hydraulic range
- Meets EHEDG and 3-A standards.



APV's V² series is a simplified, maintenance-friendly and efficient centrifugal pump featuring a four-blade, fully open, non-clog impeller that is optimum design for sanitary applications:

Main Features:

- 316 ss components
- Efficient volute casing
- Compact C-flange motor adapter
- Meets 3-A, USDA, FDA and BISSC requirements
- Eight sizes-to 500 U.S. gpm, 300 ft. head, 40 hp

Request Pump and Valve Guide - 7010-01-08-2008-US

R Series Trouble-Free Pump

For fluid, viscous and particulate product applications in the food, beverage, meat, dairy, brewery and bakery industries

- Easy maintenance - without removing pump from line
- Optional o-ring front cover seal provides positive, reusable leak protection
- Floating rotor design - eliminates need for shiming and rotor nuts
- Parts interchangeable within model sizes
- Wide choice of rotors - rubber, plastic, epoxy and non-galling stainless steel



R Series



DW Series

The DW, APV's most versatile rotary lobe pump, is EHEDG Certified and lifts the standards for pump performance. Widest range of features all in one design.

- Ultra-hygienic
- Widest speed range for maximum process flexibility - up to 1400 rpm. It can often be both product and CIP pump
- Easy maintenance with front loaded mechanical seals
- Pulse-free performance with unique, patented piston rotors
- Interchangeable lobe or piston rotors
- Low NPSH required
- Meets 3-A, EHEDG and FDA requirements

Request Brochure - 7003-01-08-2008-US

Request Brochure - 7000-02-08-2008-US

PRODUCTION & LABORATORY HOMOGENIZERS

The complete line of APV homogenizers is custom engineered to optimize the productivity of your production process.

- Capabilities up to 14,000 gph
- Operating pressures to 21,750 psi
- Batch-to-batch consistency
- Longer shelf life utilizing state-of-the-art valve technology
- Enhanced texture, taste and color of end product
- Advanced particle size control and uniformity to reduce ingredient requirements



Take the risk out of product development by using laboratory homogenizers from APV. Capable of handling samples as small as 100ml, APV guarantees scale up to production size capacities, ensuring the most productive and efficient process operating conditions. APV laboratory Homogenizers can be used for processing many types of products in the chemical, food, dairy, cosmetic and pharmaceutical industries. These products include water-in-oil emulsions, oil-in-water emulsions and dispersions of many types.

Request Brochure - 3000-02-08-2008-US

Request Brochure - 3003-03-08-2008-US

PLATE EVAPORATORS

APV offers the widest range of plate evaporators including:

- Falling Film
- Rising/Falling Film
- Rising Film
- Forced Circulation

Typical applications are:

- Fruit juices
- Various proteins, e.g. broth or gelatin
- Whey, WPC and permeate
- Vitamins, pharmaceuticals, soy products
- Nutraceuticals
- Waste water

SINGLE SEAT VALVES

SW4-Innovative Advanced Design

- Meets 3-A and EHEDG requirements
- Pocket-free housing design, with extra wall thickness
- Maintenance-free actuators are reversible and interchangeable
- Robust construction and wear-resistant parts
- Sets the standard in CIP cleanability, ergonomics and modular design
- Optional "CU" control unit offers more flexibility in voltage, switching and speed control

MS4- Aseptic Model Features:

- Flat membrane design ensures tight sealing
- Long life sterile barrier
- Excellent cleanability

CU3-Multi Feature Control Unit

- Ergonomic manual override control
- Supply and exhaust air throttling control
- Low power consumption (Hall sensors & low voltage solenoid)
- Adaptable to multiple product ranges
- 110V option available
- Fieldbus options: DeviceNet, ASI and Profibus

Request Brochure - 8028-01-08-2008-US

Request Brochure 8022-01-08-2008-US

DOUBLE SEAT ULTRA-HYGIENIC VALVES



DE3 and DA3

Exceptional Cleanability / Compact Design

- Fully balanced upper and lower chambers
- Simplified and safe maintenance without need of compressed air
- Radial seat seal design concept allows compact footprint and low weight
- Transitional product loss dramatically reduced
- DA3+ also features integrated seat lift to automatically clean seat area AND both upper and lower shaft areas

Request Brochure 8000-02-08-2008-US for DE3 and 8011-01-08-2008-US for DA3+

UNIT SYSTEMS



ESI/UHT Systems

- Steam Infusion
- Steam Injection
- Coiled Tubular Aseptic
- Corrugated Tubular Aseptic
- Aseptic Tanks
- Sterilizers

Systems for Juice/Beverage

Systems for Viscous Products

Systems for Pasteurization

Other Systems

Request Brochure - 6750-01-08-2008-US

TECHNOLOGY & PACKAGED PROCESS SYSTEMS

APV offers plate and tubular packaged systems as well as steam infusion and injection packaged systems for the food, beverage and dairy industries. All APV packaged systems are backed by responsive engineering support - before and after the sale. Plus, APV can provide a choice of options to help eliminate the worry of plantwide integration.

Request Brochure - 6750-01-08-2008-US

AFTERMARKET

Parts - Keep your APV equipment running like new with genuine APV replacement parts. Every part meets our stringent standards for fit, materials of construction, and overall design delivering optimal performance, durability and uptime. Experience the advantages of APV's parts and equipment that are made for each other and you'll get:

- 24-hour parts access via our toll-free hotline
- Fast shipment from our extensive parts inventory
- Knowledgeable customer service
- Expert technical support
- Extensive distributor network

Services - APV provides repair and preventative maintenance service agreements for Pumps, Valves, Plate Heat Exchangers, Homogenizers, Tanks, Scrape Surface Heat Exchangers, Separators, Instrumentation, and Process Controls.

In addition, APV offers full systems support for Pasteurizers, Evaporation, Membrane Filtration, Distillation, Automation and Controls, CIP & Hot Water Sets, Other Processes, and System or Components Audits. Behind every service agreement is a highly skilled APV specialist who can tailor these services to each and every customer need.

- Improved plant reliability
- On Site Training
- Increased Up-time
- High Production Efficiencies
- Unmatched Process & Technical Expertise

Request Brochure - 11004-01-08-2008-US



APV P: 800-554-5290 F: 888-278-5329 E: answers.us@apv.com Web: www.apv.com

