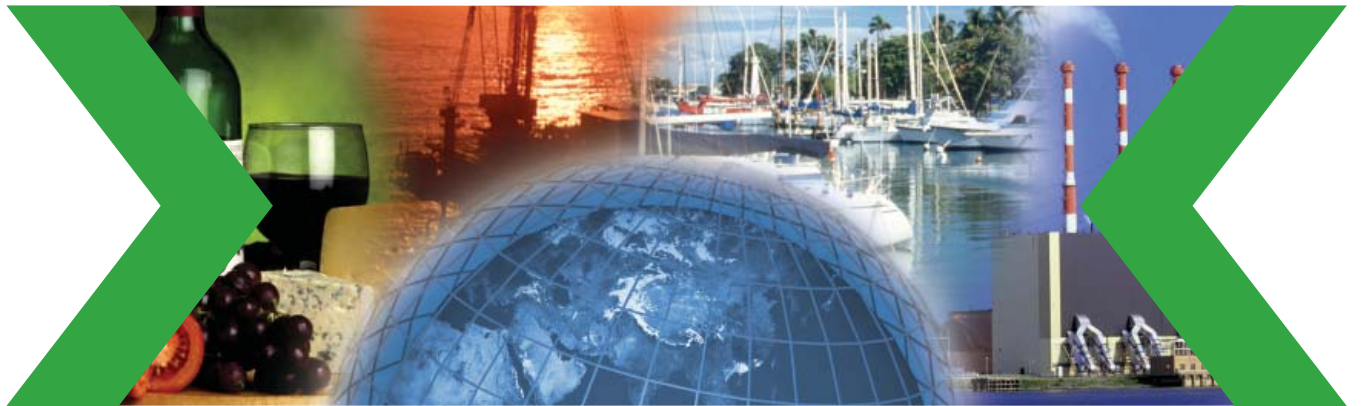


Flow Technology Segment Overview



SPX Corporation is a global multi-industry manufacturing leader with 17,000 employees and a presence in 35 countries. We are focused on providing engineered solutions that support the expansion of global infrastructure, process equipment and diagnostic tools with particular emphasis on the growing worldwide demand for energy and power.

The Flow Technology segment has gained strong brands and market leadership positions by investing in technology, talent and aftermarket support services. The brands in the Flow Technology segment design, manufacture and market solutions and products used to process, blend, meter and transport fluids, as well as air and gas filtration and dehydration products. Recognized for best practices in manufacturing, strategic sales channels and wide product breadth, the businesses making up the SPX Flow Technology segment strive to enhance customer satisfaction on a global basis.

Flow Technology Divisions

SPX[®]

DEHYDRATION & FILTRATION

SPX[®]

FLOW CONTROL

SPX[®]

PROCESS EQUIPMENT

SPX[®]

APV

Index

- SPX Flow Technology** 2
- Index** 3
- SPX Process Equipment** 4
 - Bran+Luebbe 5
 - Johnson Pump Industry 6
 - Johnson Pump Marine 7
 - LIGHTNIN 8
 - Plenty Side Entry Mixers and Plenty Mirrlees Pumps 9
 - Premier Mill 10
 - Tigerholm 11
 - Waukesha Cherry-Burrell 12
 - WCB Flow Products 13
- APV** 14
 - APV 15
- SPX Flow Control** 16
 - Airpel 17
 - Copes-Vulcan 18
 - DeZurik 19
 - GD Engineering 20
 - M & J Valve 21
 - Plenty Filters 22
 - Plenty Process Filtration 23
- SPX Dehydration and Filtration** 24
 - Delair 25
 - Deltech 26
 - Dollinger Filtration 27
 - Hankison 28
 - Kemp 29
 - Pneumatic Products 30
 - RentalDryers.com 31
 - VOKES 32
- Common Applications** 33
- R&D/Testing Capabilities** 34
- Aftermarket Services** 35



PROCESS EQUIPMENT



SPX Process Equipment, Headquarters
Delavan, WI

SPX Process Equipment is a leading manufacturer of fluid process solutions, metering and blending systems, pumps, mixers, valves, and fittings serving the sanitary, biopharmaceutical, industrial, municipal, HVAC, and marine markets worldwide.



PUMPS • VALVES • MIXERS • BLENDERS • HEAT EXCHANGERS • FITTINGS • DISPERSION EQUIPMENT





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Bran+Luebbe is a worldwide leader in metering, analyzing and processing liquids with expertise for more than 70 years. The name Bran+Luebbe stands for high quality and precision, as one of the world's most reputable manufacturers of metering and process pumps, process systems as well as analyzing equipment. We have the highest quality standards, pioneering innovations and comprehensive process and applications know-how in the industry.

	<p style="text-align: center;">PROCAM METERING PUMPS</p> <ul style="list-style-type: none"> ■ Modular, single and multi-stream pump configurations to match the process requirement ■ Double Diaphragm and Plunger Pumps ■ Pressures up to 20 bar / 300 PSI ■ Flow rates up to 3000 l/h / 790 GPH per pump head
	<p style="text-align: center;">NOVADOS METERING PUMPS</p> <ul style="list-style-type: none"> ■ Horizontal and vertical metering pumps ■ Modular, single and multi-stream pump configurations to match the process requirements ■ Pressure up to 1000 bar / 150000 PSI ■ Flow rates up to 22600 l/h 6000 GPH ■ Variable speed drive & variable stroke adjustment for manual or automatic flow control ■ Double diaphragm and plunger pumps, API 675 complaint ■ Remote condition monitoring with the NOVALINK-CSM online diagnostic system
	<p style="text-align: center;">NOVAPLEX PROCESS PUMPS</p> <ul style="list-style-type: none"> ■ Reciprocating high performance diaphragm process pumps for high pressure and high capacity applications ■ Modular design, additions can be added on for future expansions ■ Pumping chamber hermetically sealed ■ Pressures up to 1000 bar / 15000 PSI ■ Flow rates up to 100 m³/h / 26440 GPH ■ Hydraulic power up to 260 kW / 350 HP with variable speed control option ■ Remote condition monitoring with the NOVALINK-CSM online diagnostic system
	<p style="text-align: center;">AUTOBLEND PROCESS SYSTEMS</p> <ul style="list-style-type: none"> ■ Dramatically improve productivity, product quality and reduce running costs ■ Dynamic mixer type PENTAX ■ Master Batch and Finishing Unit Concept ■ Hygienic design and cleanability on customers demand ■ Turnkey blending systems ■ Design, engineer, build and test in-house ■ Full automation and control options up to SCADA ■ Capability in wide ranging markets & applications, due to expertise from within the SPX group
	<p style="text-align: center;">CHEMICAL INJECTION SYSTEMS</p> <ul style="list-style-type: none"> ■ Single or multi-point chemical injection storage and pumping packages ■ Efficient, low power consumption designs including solar powered units for remote locations ■ Long term aftermarket and service support ■ Extensive global reference list of installations ■ Bespoke designed, built and tested to meet customer requirements ■ Compliant with international standards, ISO, DIN, API, PED, ATEX
	<p style="text-align: center;">ONLINE ANALYZERS</p> <ul style="list-style-type: none"> ■ Wide range of different applications ■ Fully automatic systems ■ Multi-stream measurements ■ Low operation costs ■ Remote control and diagnostics ■ Inline probes ■ Innovative technology ■ Single parameter and multi parameter systems

Common Applications: Oil & Gas, Petrochemical, Chemical, Food & Beverage, Personal Care, Pharmaceutical, Pulp & Paper, Water Treatment

Manufacturing Standards: ISO-9001, 98/37/EC (Machinery Directive, 94/9/EC (ATEX), API 675, EHEDG)



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Johnson Pump Industry develops and manufactures positive displacement and centrifugal pumps. Marketing and distribution is handled via multiple sales companies and independent distributors worldwide. 75 years of experience providing solutions for liquid transport needs ensures high quality standards. Johnson Pump is certified to ISO 9001 and 14001.

	<p style="text-align: center;">ROTARY LOBE PUMPS – POSITIVE DISPLACEMENT RANGE</p> <ul style="list-style-type: none"> ■ Hygienic stainless steel tri-lobe and bi-wing lobe pumps easy to clean ■ High volumetric efficiency for thin and viscous liquids ■ Accurate and gentle flow with minimal pulsation ■ Front loaded hygienic mechanical seals easy to access for inspection and cleaning ■ Different hygienic certificates available
	<p style="text-align: center;">INTERNAL GEAR PUMPS – POSITIVE DISPLACEMENT RANGE</p> <ul style="list-style-type: none"> ■ Robust, heavy-duty design in several material options for extended life ■ Suitable for both thin and viscous liquids ■ Pulsation-free flow for accurate and gentle pumping ■ A variety of sealing options and seal-less mag drive ■ Simple design with few parts, easy to service with back and front pull-out for access to rotating parts
	<p style="text-align: center;">SELF-PRIMING CENTRIFUGAL PUMPS</p> <ul style="list-style-type: none"> ■ Horizontal and vertical versions – Single and multi stage executions ■ Hydraulics according to EN 733 ■ Modular designs based on interchangeable parts ■ High pump efficiency, minimal internal losses ■ A variety of sealing options – packed gland, mechanical seals and cartridge seals
	<p style="text-align: center;">CENTRIFUGAL PUMPS</p> <ul style="list-style-type: none"> ■ General purpose pumps, heavy duty chemical and process pumps, in-line pumps, close-coupled pumps, submersible pumps ■ Modular designs based on interchangeable parts ■ Horizontal and vertical versions – Single and multi stage executions ■ Comply with ISO, DIN and API standards ■ A variety of sealing options and seal-less mag drive
	<p style="text-align: center;">MAG DRIVE PUMPS</p> <ul style="list-style-type: none"> ■ Heavy duty 100% leak-free centrifugal and gear pumps for applications which convey corrosive, toxic, aggressive or expensive liquids ■ Modular pumps based on interchangeable parts ■ Environmentally friendly and improved safety in chemical and process plant environments ■ Centrifugal ranges comply with ISO5199 and EN22858 and are interchangeable with existing (ISO 2858) pumps
	<p style="text-align: center;">FLEXIBLE IMPELLER PUMPS</p> <ul style="list-style-type: none"> ■ Easy-to-handle, positive displacement pump with excellent self-priming ability ■ Pulsation free and gentle pump action for sensitive liquids, able to handle large soft solids without damage ■ Fast, simple and inexpensive maintenance with low operational cost and short down time ■ Different versions for a broad field of applications meeting a variety of industrial demands, hygienic or non hygienic

Common Applications: Food & Beverage, Petrochemical, Pharmaceutical, Chemical, Horticulture, Water Applications, Shipbuilding, Pulp & Paper, General Industry



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Johnson Pump Marine is one of the world's leading manufacturers of pumps for marine use. For more than thirty years, Johnson Pump has been providing the boaters of the world with high quality, highly reliable pumps. Our extensive product range includes water pressure systems, bilge pumps, deckwash pumps, engine cooling pumps and more. Thanks to our extensive marine pump experience, we know the boating industry well. This makes it possible for us to find pumping solutions that meet the specific needs of each customer.

	<p style="text-align: center;">HEAVY-DUTY FLEXIBLE IMPELLER PUMPS</p> <ul style="list-style-type: none"> ■ A range of multi-purpose bronze pumps ■ Compact design. Pedestal or electro-magnetic clutch versions ■ Self-priming ■ Available in sizes from 3/8" to 2 1/2" 4 L/min to 620 L/min (1-165 USGPM) ■ Ideally suited as cooling water pumps for marine engines, bilge, deckwash and fuel transfer pumps and other self-priming multi-purpose applications ■ Also suited on shore to empty septic tanks, to flush clean and to fill water tanks
	<p style="text-align: center;">WATER PRESSURE SYSTEM - AQUA JET SERIES</p> <ul style="list-style-type: none"> ■ Suitable where low amperage and sound levels in relation to water flow are placed at a premium such as in shower and galley applications ■ Quiet and pulsation-free even at low speeds ■ Five chamber diaphragm pump ■ Perfect water pressure or deck wash solution ■ Efficient and compact ■ Available in sizes from 9 L/min to 40 L/min (2.4-10.4 USGPM) ■ Integrated pressure switch for automatic operation
	<p style="text-align: center;">SUBMERSIBLE BILGE PUMP SERIES</p> <ul style="list-style-type: none"> ■ A variety of mounting options, available with capacities of 30 to 250 L/min (500-4000 USGPH) ■ Heavy-duty motors with stainless steel shaft and tough thermoplastic bodies provide for a long pump life ■ Can handle most bilge pump applications ■ With an automatic switch installed, the pump turns on and off automatically
	<p style="text-align: center;">DC DRIVEN FLEXIBLE IMPELLER PUMPS</p> <ul style="list-style-type: none"> ■ High level of flexibility & self-priming ■ Ideally suited for use as bilge and deckwash pumps, fresh water pumps, refueling pumps for oil and diesel ■ May be combined with a vacuum or pressure switch for automatic operation ■ Capacities vary from max 14 L/min to 55 L/min (3.7-14.5 USGPM) ■ All motors are heavy-duty to provide long service life even under heavy use ■ Available in 12 or 24 volts
	<p style="text-align: center;">COMPACT TOILET HANDLING AND WASTEWATER PUMPS</p> <ul style="list-style-type: none"> ■ Maximum flow 32 L/min (8.5 USGPM) ■ Engineered to pump black wastewater with uncompromising odor-prevention features ■ Whisper quiet operation ■ Non-choke valves - no waste shredding required ■ Pump head rotatable 360° ■ Self-priming up to 2.5 meters (8.2 ft.) ■ Can be run dry and can pump air/water mixture ■ Electric motor with power-out, manual-crank backup
	<p style="text-align: center;">AquaT™ MARINE TOILETS MANUAL OR ELECTRICAL POWERED</p> <ul style="list-style-type: none"> ■ Hygienic, easy-to-clean vitreous china bowl and exterior surfaces ■ Low water consumption ■ Versatile plumbing connection options and automatic back-flow prevention ■ Designed for virtually any on-board mounting position and may be installed above or below the water line ■ Suitable for OEM or replacement installation ■ Innovative brake bushing prevents annoying leakage at the handle

Common Applications: Water Pressure Systems, Engine Cooling, Bilge Pumping, Oil & Diesel Refueling, Water Circulation, Deckwashing, Wastewater and Toilet Handling, Emergency Pumping for example Fire Fighting, etc.



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LIGHTNIN has over 80 years of unrivaled experience in mixing technology, process knowledge, and technological innovation. **LIGHTNIN** enjoys a global reputation for durable, long-lasting mixers, agitators, aerators, and flocculators for fluid process systems. We offer a full spectrum of impeller designs for diverse applications. In addition, we offer a worldwide service network, mixer repair, gearbox repair, and replacement parts programs. Look to **LIGHTNIN** for knowledge, technology and service excellence.

	<h3 style="text-align: center;">PORTABLE/FIXED MOUNT/STATIC MIXERS</h3> <ul style="list-style-type: none"> ■ Laboratory and general purpose ■ Industry-standard, single-purpose and full-featured mixers for small batch applications ■ Single-speed to digital-controlled mixers for bench top open and closed tank service ■ Direct and gear models ■ Rapid response time for continuous dosing/sampling ■ Shear control for blending sensitive products
	<h3 style="text-align: center;">SANITARY MIXERS</h3> <ul style="list-style-type: none"> ■ Dry running, aseptic mixers for blending, solids suspension and cell culture for biotech, pharmaceutical, cosmetic and food processing industries ■ Sanitary mixers for the complete range of small batch applications ■ Bottom and top mounted, magnetically coupled hermetically sealed mixers for sanitary applications, including injectables
	<h3 style="text-align: center;">FGD VSF SIDE-ENTRY MIXER</h3> <ul style="list-style-type: none"> ■ C-Face motor mount eliminates motor shaft alignment and coupling failures ■ Rugged gearbox ■ Removable couplings for easy seal change and maintenance while tank is full and operating ■ FGD slurry seal designed to excel in harsh environments ■ A312 impeller provides the most flow per unit of power in a focused pattern
	<h3 style="text-align: center;">HEAVY MIXERS</h3> <ul style="list-style-type: none"> ■ Mechanical design technology proven up to 2600 kW/3500 HP for all process mixing applications ■ Belt and gear drive side entry units ■ Robust, state-of-the art design delivers value and performance for process and environmental control applications
	<h3 style="text-align: center;">PROCESS SYSTEMS AND EQUIPMENT</h3> <ul style="list-style-type: none"> ■ Attrition Scrubbers ■ Minerals processing equipment ■ Static and dynamic mixers
	<h3 style="text-align: center;">PROCESS TECHNOLOGY</h3> <ul style="list-style-type: none"> ■ Highly efficient, axial flow impellers for flow-controlled purposes like blending, solid suspension, and heat transfer ■ Radial flow impellers for dispersion and mass transfer ■ Circulator impellers for plumbing applications

Common Applications: Chemical Processing, Flue Gas Desulfurization, Food & Beverage, Mining & Minerals, Oil & Petroleum, Personal Care, Pharmaceutical & Biotechnology, Pulp & Paper Industries, Water & Wastewater Treatment

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Plenty is a market leader for side entry mixers. LIGHTNIN and Plenty have combined their capabilities to offer the most comprehensive range of products and solutions for side entry fluid mixing applications with a combined experience of over 130 years in the key side entry markets of oil, edible oil, wastewater treatment, chemical processing, and pulp and paper. Plenty also produces a line of rotary positive displacement pumps for use in oil and gas, petrochemical, and sugar industries.



BELT AND GEAR DRIVE MIXERS

■ **Fixed Angle**

For blending, homogenizing and temperature uniformity duties

■ **Swivel Angle**

For tank cleaning operations and the prevention of harmful sludge build-up

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TRIRO TRIPLE SCREW PUMPS

■ Fuel Oil Firing

■ Forced Lubrication (API614 / 676)

■ Crude Oil

■ Heavy Fuel Oil Pumping

■ Lube Oil Transfer



MAGMO SUGAR PUMPS

■ Designed to handle high viscosity abrasive sugar products, such as Molasses and Massecuite.

■ Primary application in sugar processing



TWINRO TWIN SCREW PUMPS

■ Bulk transfer of liquids

■ Terminal distribution

■ Fuel oil transfer

■ Ships bunkering / cargo pumping

■ Rail / road car unloading / loading

■ Pipeline and process flow requirements



VANE PUMPS

■ U2000 - Variable Flow Rotary Pumps

■ G2000 & P2000 - Fixed Flow Rotary Pumps

■ Used in almost any process plant requiring variable flow rates

■ Typical Applications: Lube oil blending, bitumen/asphalt, ships bunkering






Common Applications: Oil & Gas, Petrochemical, Chemical Processing, Tank Storage, Sugar Processing, Power, Marine



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For over 80 years, **Premier Mill** has been known globally as a leading supplier of milling and dispersing equipment for specialty processing applications. We continually invest in the improved technologies necessary to meet industry demand for consistency, uniform particle size, high throughput, low cost production and continuous operation. This commitment has resulted in the development of a long list of product improvements necessary to keep customers on the leading edge of technology.

	<p style="text-align: center;">LAB SINGLE-SHAFT MIXERS</p> <ul style="list-style-type: none"> ■ General low to medium viscosity liquid mixing and dispersing applications ■ Pre-mixing for other processing devices, such as media mills ■ Various interchangeable mixing head designs ■ Laboratory table top ■ From 1 Liter to 5 gallon capacity
	<p style="text-align: center;">MAX SHEAR INLINE DISPERSER</p> <ul style="list-style-type: none"> ■ Emulsifying, dissolution and dispersion of hard-to-wet materials ■ Available in pressurized and abrasion resistant configurations ■ Compact enough to be at any point in your process ■ Portable cart option available ■ High shear performance and powerful pumping action
	<p style="text-align: center;">VMS VERTICAL MAX SHEAR - ROTOR/STATOR MIXER</p> <ul style="list-style-type: none"> ■ Batch dispersing applications for low to medium viscosity ■ Stators available with standard, fine and ultra-fine slot openings ■ Fine particle size of suspended solids; smaller droplet emulsion size ■ Colloid Mills and Rotor/Stator Inline Dispersers also available
	<p style="text-align: center;">SUBMERSIBLE BASKET MEDIA MILLS</p> <ul style="list-style-type: none"> ■ PSM Mill - Widest range of viscosity, batch size and application of any competitive basket mill ■ Combination of media mill and mixers in one machine ■ Independent variable speed drives on mixing and milling shafts ■ Drum Mill - Free-standing, stand mounted basket type mill also available for small batch processing
	<p style="text-align: center;">HORIZONTAL MEDIA MILLS: HM, SM AND QMAX</p> <ul style="list-style-type: none"> ■ Dispersion capability for finest grinding and particle size requirement applications (HM/SM) for discrete pass or high flow recirculation milling ■ Ultra-fine particle size (sub-micron) with narrow particle size distribution (SM/QMAX) ■ Patented high energy AP discs developed for all Premier Horizontal Mills to deliver maximum efficiency and finest product quality






Common Applications: Paint, Coatings, Inks, Electronics, Ceramics, Adhesives & Sealants, Agricultural Chemicals, Pharmaceuticals, Biotechnology, Chemical, Cosmetics, Personal Care, Food & Flavorings



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Tigerholm Products AB is a progressive operation that develops, manufactures and sells innovative products for professional users within the HVAC industry. Products like the oil de-aerator - Tigerloop®, the draught regulator - Tigex® and the NoTap® method, which allows branch connections and pipe blocking on pressurized pipes, have made Tigerholm a world leader within their niche.

	<p style="text-align: center;">TIGERLOOP® OIL DE-AERATORS</p> <ul style="list-style-type: none"> ■ Remove gas/air bubbles from oil lines ■ Increased efficiency - reduced oil consumption ■ Eliminate oil pump and nozzle problems ■ Remove pressurized oil return line to tank ■ Eliminate risk for leakage in return line ■ Preheat oil to avoid problems with cold oil
	<p style="text-align: center;">OIL FILTERS</p> <ul style="list-style-type: none"> ■ Filters available in different sizes from 1/4" to 2" ■ Filter inserts in various materials available from 10 to 150 microns ■ Oil filters of brass construction and are available with or without an isolating valve ■ The filter inserts are easily exchangeable ■ Oil filters available in combination with the Tigerloop® Combi ■ Spin-on paper filter available in combination with Tigerloop® Plus
	<p style="text-align: center;">FLEXIBLE OIL HOSES</p> <ul style="list-style-type: none"> ■ Complete program of high quality oil hoses ■ Sizes available from 300 mm up to 1500 mm ■ Manufactured in the highly oil resistant rubber quality NBR/PVC ■ Hoses are covered with zinc coated iron wire ■ Hoses are tested and approved according to DIN EN ISO 6806 ■ An assortment of nipples are available for different applications
	<p style="text-align: center;">TIGEX® DRAUGHT REGULATORS</p> <ul style="list-style-type: none"> ■ Draught regulator, developed and patented by Tigerholm ■ Manufactured in stainless steel ■ Markets only draught regulator with a fully balanced damper ■ Can be fitted in almost any position (angled, vertical or horizontal)
	<p style="text-align: center;">NOTAP® METHOD</p> <ul style="list-style-type: none"> ■ Installations can be done on pressurized pipes ■ Draining the pipe system is not necessary ■ Adding new water or venting radiators is not necessary ■ Simple installation as no soldering, cross cutting or welding is necessary ■ No need to handle chemicals when modifying cooling systems ■ Minimizes job time

Common Applications: Tigerloop® and oil products are applicable on oil burner systems for light oil or kerosene. Tigex® is applicable on all kinds of boilers where a stable draught is required. NoTap® is applicable on all types of metal pipes; galvanized, stainless steel, copper and iron.



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For more than a century **Waukesha Cherry-Burrell** has been a leading supplier of fluid handling and process equipment including pumps, valves, fittings, and heat exchangers. WCB and its network of stocking distributors are dedicated to raising productivity, product quality and profitability for their equipment and systems customers. From this dedication has come advancements in equipment development and applications; advancements that have changed the way process designers solve problems.

	<p>UNIVERSAL I AND II SERIES - POSITIVE DISPLACEMENT PUMPS</p> <ul style="list-style-type: none"> Models available in rectangular flange or aseptic configurations with non-galling 88 alloy rotors Pumps can be remanufactured Close-coupled Tru-Fit mounting options available Universal II - Pressures up to 500 psi (34 bar), CIP design Universal I - Pressures up to 200 psi (14 bar), COP design
	<p>CENTRIFUGAL PUMPS</p> <ul style="list-style-type: none"> High efficiency, minimal vibration, longer life pumps One size seal fits all 200 Series models Available models include 200 Series, C-Series, Multi-Stage, Self-Priming, WFI, and Stub shaft pump versions
	<p>VALVES</p> <ul style="list-style-type: none"> Sanitary, hygienic valves manufactured of stainless steel Rising stem, butterfly, ball, manual, and specialty valve designs Designed to be cleaned in place or out Heavy-duty construction for long service life Easy to maintain Adaptable and modular
	<p>VOTATOR HEAT EXCHANGERS</p> <ul style="list-style-type: none"> Models available for processing moderate to ultra high viscosity products Options for controlling residence time and for maintaining product integrity Material selection to meet specific process requirements Horizontal and Vertical mounting choices Vast applications database from over 50 years of process experience
	<p>DISPERSION EQUIPMENT</p> <ul style="list-style-type: none"> Homogenizers - Compact design, simple seal design, modular valve assemblies Colloid Mills - Greater capacity with 50% more flow rate with less heat, CIPable Shear Pumps - Processes as it pumps, interchangeable stator and rotor combinations CR Mixers - For high shear emulsifying, and controlled and precise aeration
	<p>ANCO BACON PRESS</p> <ul style="list-style-type: none"> New lock down head feature helps control belly thickness The timer feature allows you to compensate for wide variations in belly temperatures and minimizes over or under pressing The patented "Maximizer" bladder inflates to fill the void on the thin end of the belly reducing wrinkles during the pressing cycle The press is capable of up to 16 bellies per minute

Common Applications: Food, Dairy, Beverage, Pharmaceutical, Personal Care, Pulp & Paper, Automotive Paint, Hydro-Carbon Processing, Films, Coatings, Adhesives

WCB-Flow Products

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From its conception, **WCB-Flow Products**, has maintained a strict adherence to the highest manufacturing standards in the marketplace. Implementation of lean manufacturing techniques, allows for quick deliveries of standard and specialty product orders. A dedicated staff works extended hours to ensure orders are accurately placed and expedited. In addition, our website allows our customers the capability of accessing material test results to trace the origins of the materials used in our products. Whether your requirements are for sanitary, BPE or specialty fittings, manual valves or centrifugal pumps, WCB-Flow Products is your key US-based single source supplier.

	<h3 style="text-align: center;">SANITARY FITTINGS</h3> <ul style="list-style-type: none"> Constructed of T304 & T316 L Stainless Steel ■ S-line ■ Weld ■ Bevel Seat ■ I-line ■ Tube OD weld fittings ■ John Perry ■ Sch 5 and 10 ■ "Cam" style ■ Pipe to Tube adapters ■ Spool pieces ■ Sweep elbows ■ Aseptic fittings
	<h3 style="text-align: center;">BPE FITTINGS</h3> <ul style="list-style-type: none"> ■ Manufactured in accordance to ASME BPE standards ■ Available in 1/2" through 6" ■ Made of T316L stainless steel Other alloys available ■ Electropolished fittings available ■ MTR (Material Test Reports) provided with each shipment and available online for download ■ Packaged in resealable bags
	<h3 style="text-align: center;">BUTTERFLY & BALL VALVES</h3> <ul style="list-style-type: none"> ■ Butterfly Valves <ul style="list-style-type: none"> - Available 1" through 4" - T304 and T316 construction - Finishes are 32 Ra ID and OD - 13 position handle ■ Ball Valves <ul style="list-style-type: none"> - Available 1/2" through 4" - T316 construction - Finishes are 32 Ra ID - Meets 3A and FDA requirements - Comes with standard locking handle
	<h3 style="text-align: center;">C-SERIES PUMPS</h3> <ul style="list-style-type: none"> ■ Versatile pump offers strong performance ■ Easy-cleaning, open type impeller delivers smooth pumping performance ■ Enlarged inlets available for larger suction lines ■ Standard CIP capability ■ Parts are interchangeable with other C-Series brands
	<h3 style="text-align: center;">SPECIALTY PRODUCTS</h3> <ul style="list-style-type: none"> ■ Dedicated production cells for faster lead times ■ Digital imaging equipment for quality validation ■ Unique tangents and configurations ■ Extensive metal working capabilities
	<h3 style="text-align: center;">RELATED PRODUCTS</h3> <ul style="list-style-type: none"> ■ Rath manufactured tubing in T304 and T316 L stainless steel ■ Special alloy products in AL6XN® and Hastalloy® ■ T316 S-Line Clamps ■ Hangers ■ Sampling Valves ■ Check Valves ■ Special Gaskets ■ T316 13H Hex Nuts

Common Applications: Food , Dairy, Beverage, Pharmaceutical and Personal Care



SPX/APV, Headquarters
West Sussex, UK

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





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APV operates worldwide as a global supplier of process engineering and automation. From the supply of engineered components to complete process engineering and design, we specialize in helping our customers improve their plants' performance and profitability, which is maintained throughout the lifetime of support services, carefully tailored to our customers' needs.

	<h3 style="text-align: center;">HEAT EXCHANGERS</h3> <ul style="list-style-type: none"> ■ Invented Plate Heat Exchanger in 1923 ■ Wide portfolio including Gasket, Brazed, and Semi-Welded Plate, Tubular, Scraped Surface, Hybrid and District Heating Units ■ Heat exchangers suitable for Hygiene and Industrial applications ■ Large range of plate, gasket, material and configurations available ■ Comply with international standard e.g. PED, ASME, SQL ■ Plate material includes AISI 316, AISI 304, Titanium and most alloy
	<h3 style="text-align: center;">HOMOGENIZERS</h3> <ul style="list-style-type: none"> ■ Rannie & Gaulin Brands ■ High Performance ■ Modular design for greater flexibility ■ Innovative service and maintenance concept ■ Laboratory Testing Services ■ Quiet stability with low noise, low vibrations and optional sound proof cabinets available ■ Lower cost of ownership
	<h3 style="text-align: center;">PUMPS</h3> <ul style="list-style-type: none"> ■ Centrifugal Pumps, Positive Displacement Pumps, Self-Priming Pumps ■ Extensive product range including high capacity, aseptic, water for injection, high pressure ■ Energy efficient ■ Highest hygienic standards. EHEDG, 3A, FDA approved. Designed for CIP and SIP ■ Easy maintenance ■ Low noise and vibration levels ■ Low NPSH requirements
	<h3 style="text-align: center;">VALVES</h3> <ul style="list-style-type: none"> ■ Includes Butterfly, Single-Seat, Mixproof, Aseptic, Regulating and Process Valves ■ Highest hygienic and aseptic standards. 3A, EHEDG, PMO, PDF approved ■ Designed for CIP ■ Easy maintenance, adaptable and modular ■ Different control unit options - Direct Connect, AS Interface, Valve-Net DeviceNet, Valve-Net Profibus
	<h3 style="text-align: center;">TECHNOLOGIES</h3> <ul style="list-style-type: none"> ■ UHT & Thermal Processing Units; Membrane Filtration & Microparticulation, General Processing; Food; Fresh Dairy Products; Cheese, Butter & Spreads; Beverage & Brewery Units; Plate Evaporation & Distillation ■ Dedicated Process Technology specialists ■ Innovation Center to support customers in new developments ■ Long tradition and extensive references in the Dairy & Food industry ■ Excellent aftermarket support and service
	<h3 style="text-align: center;">AUTOMATION</h3> <ul style="list-style-type: none"> ■ APV FactoryExpert delivers automation and software solutions targeting Quality, Production Performance, Utility Management, Regulatory Compliance, Maintenance and Production Optimization ■ APV FactoryExpert provides highly functional automation solutions for new projects, migration of aging legacy control systems and upgrading existing automation controls

Common Applications: Food, Dairy, Beverage, Brewing, Healthcare, Marine, Power, Chemical, Biotechnical, Petrochemical, HVAC, Industrial, Oil & Gas, Pulp & Paper, Automotive, Refining

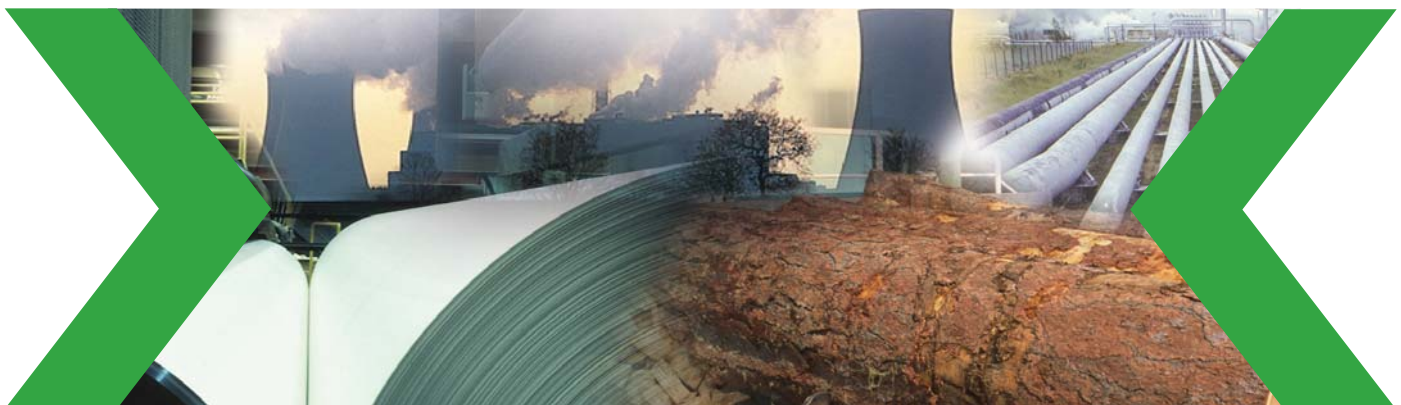


FLOW CONTROL



SPX Flow Control, Headquarters
Houston, TX

SPX Flow Control is a leading manufacturer of fluid process solutions, strainers, filters and industrial valves serving the power, pulp and paper, water, oil and gas, refining, petrochemical, industrial, and municipal markets worldwide.



VALVES • CLOSURES • STRAINERS • ACTUATORS • FILTRATION SOLUTIONS AND SERVICES

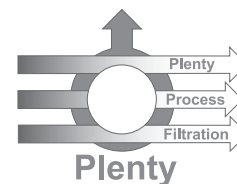


COPES-VULCAN

DeZURIK

GD Engineering

M&J VALVE








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Airpel Filtration is a world leading manufacturer, with substantial expertise and resources for producing superior fluid handling equipment. A continuous program of innovation has been maintained since the founding of the company in 1939, originally known as "Airport Equipment Ltd". With more than 60 years experience, Airpel operates from a position of knowledge and superiority within the filtration industry. Committed to provide filtration solutions, the company maintains close contact with the evolving needs of engineering processes and utilities industries. With a dedicated technical sales team and an established network of overseas and UK representatives and distributors, focus is on providing the most cost effective solution for each application.

	<p style="text-align: center;">OV SINGLE BASKET STRAINER</p> <ul style="list-style-type: none"> ■ Used for filtering liquids when flow can be interrupted for cleaning ■ Line sizes from 3/4" to 10" NB and pressure ratings to ANSI 300 ■ Larger sizes with compact multi-basket design to save space ■ Filtration levels from 10mm down to 10 micron ■ Wide range of accessories such as magnetic columns and differential pressure monitoring ■ Available in cast iron, stainless steel, or bronze with monel baskets for seawater applications
	<p style="text-align: center;">OW DUAL BASKET STRAINER</p> <ul style="list-style-type: none"> ■ Used for filtering liquids when flow cannot be interrupted for cleaning ■ Handle selects between fully rated chambers, allowing removal of basket from isolated chamber ■ Line sizes from 3/4" to 8" NB and pressure ratings to ANSI 300 ■ Filtration levels from 10mm down to 10 micron ■ Wide range of accessories such as magnetic columns and differential pressure monitoring ■ Available with a wide variety of body, valve, basket, and seal materials to match process fluid and conditions ■ Optional 100% shutoff facility to eliminate any leakage between chambers
	<p style="text-align: center;">SELF CLEANING FILTERS</p> <ul style="list-style-type: none"> ■ Positive scraping action efficiently cleans element while independent dumping minimizes fluid loss ■ Line sizes from 3/4" to 12"+ NB and pressure ratings to ANSI 300 ■ Wedge-wire or perforated elements provide filtration from 3mm down to 25 micron ■ Eliminates operator contact with process fluid ensuring suitability for hazardous process fluids ■ Available with electric or pneumatic automation to suit customer requirements ■ Automation provides labor savings and allows use on un-manned sites

Common Applications: Water, Lubrication, Paint, Resin, Ink, Chemical, Oil









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Copes-Vulcan has been providing valves to the power, pulp and paper, water, oil and gas, and petrochemical industries since 1903. We are recognized worldwide as a leader in valves for severe and critical service applications. Our strength lies in our ability to provide innovative valve solutions for our customer's application problems. Copes-Vulcan is certified to ISO-9001, ASME Sections I and III, and PED 97/23/EC.

	<p>SPECIAL APPLICATION GLOBE & ANGLE STYLE CONTROL VALVES</p> <ul style="list-style-type: none"> ■ General Service application ■ Severe Duty application ■ High turndown ■ .75 - 24" Sizes ■ 150 - 4500 ANSI Ratings ■ Special ANSI & API Ratings ■ Meets ASTM/ASME Standards ■ Butt/Socket Weld, Flanged & Hub Connections
	<p>STEAM CONDITIONING EQUIPMENT (DESUPERHEATERS)</p> <ul style="list-style-type: none"> ■ 7 Styles ■ Mechanical Atomizing ■ Variable Orifice ■ Integral cooling water function available ■ High turn downs ■ 150 - 2500 ANSI Ratings ■ Special ANSI & API Ratings ■ Meets ASTM/ASME Standards
	<p>TRIM TYPES</p> <ul style="list-style-type: none"> ■ 13 Types ■ RAVEN™ ■ HUSH™ ■ CAV B9® ■ One Stage Hush® ■ Noise control ■ Cavitation elimination ■ Velocity & Erosion control
	<p>ACTUATORS</p> <ul style="list-style-type: none"> ■ Diaphragm Style. Model 700 ■ Diaphragm Style. Model 1000 ■ Manual Style 820 ■ Electric available ■ Electro/Hydraulic available ■ Piston ■ Reverse acting ■ Direct acting
	<p>NUCLEAR CONTROL VALVES</p> <ul style="list-style-type: none"> ■ Pneumatic, Motor, Manual Operators ■ Metal & Resilient Seats ■ Widest Selection of Trim in the Industry ■ Globe, Angle Isolation & Three Way Body Configurations ■ Size Range: 3/8" - 20" class 150-2500 ■ ASME Section III "N" & "NPT" Stamp Certified
	<p>NUCLEAR HIGH PERFORMANCE BUTTERFLY AND BALL VALVES</p> <ul style="list-style-type: none"> ■ Bi-Directional Class VI Shut off ■ Metal & Resilient Seats ■ Torque Seated/Position Seated (Butterfly only) ■ Pneumatic, Motor, Manual Operators ■ Modulating or Isolation ■ Two & Three Piece Ball Valve design ■ ASME Section III "N" & "NPT" Stamp Certified

Common Applications: Power, Pulp & Paper, Oil & Gas, Petrochemical

DeZURIK is a world leader in innovative valves for the pulp and paper and process industries specializing in globe and rotary control valves, butterfly valves, knife gate valves, consistency transmitters, actuators and related accessories. Recognizing early on that business success depends on understanding the customer's process from the inside out, we established focused solutions specific to an application. DeZURIK's philosophy has provided effective solutions for a wide variety of industries and the markets they serve, keeping us on the forefront of technology.

	<h3 style="text-align: center;">CONTROL VALVES</h3> <ul style="list-style-type: none"> ■ Rotary style to satisfy most process applications ■ Materials of construction include carbon steel, stainless steel and alloys ■ Rotary valves provide up to 100:1 rangability ■ Sizing software allows accurate reliable selection for the most cost-effective solution ■ Enhanced accuracy reduces process variability
	<h3 style="text-align: center;">BUTTERFLY VALVES</h3> <ul style="list-style-type: none"> ■ Model BG2 general service valves provide cost-effective solutions in 2" - 36" sizes ■ Industrial grade BRS resilient seated valves offer unique offset sealing for long life ■ High performance valves offer TFE and metal seats for tight shut off to 1000 Deg. F ■ Rugged designs allow use in high cycle and throttling control applications ■ Wide variety of actuation and accessories options
	<h3 style="text-align: center;">KNIFE GATE VALVES</h3> <ul style="list-style-type: none"> ■ Superior gate sealing reduces maintenance and improves service life ■ Variety of seat options including a wide range of resilient materials and metal ■ V-Port options for throttling control ■ Resilient seated KCB model offers bi-directional shut-off to full pressure rating ■ O-Port designs for shut-off in standing column applications ■ Severe service high performance designs for mining and other rigorous applications
	<h3 style="text-align: center;">GLOBE CONTROL VALVES</h3> <ul style="list-style-type: none"> ■ Available in sizes from 1/2" - 10". Class 125-600 ■ Wide range of body and trim materials and body style ■ Available three-way valves for mixing and diverting ■ Ideally suited for both HVAC commercial, and industrial applications ■ Complete line of accessories including digital and analog positioners
	<h3 style="text-align: center;">ACTUATORS AND POSITIONERS</h3> <ul style="list-style-type: none"> ■ PowerRac piston actuator offers lifetime warranty ■ Spring return diaphragm and piston designs ■ Positioners allow use of all input signals including HART, Fieldbus, and Profibus ■ Electric actuators available to meet any customer specification

Common Applications: Pulp Stock, Fly Ash & Bottom Ash, Steam, Chemicals of all types, Black Liquor, Hydrocarbons

GD Engineering has over 60 years experience in the design and manufacture of pipeline pigging solutions to the oil, gas and process industries worldwide, and manufacture a comprehensive range of industry leading Quick Opening Closures and Pig Signaller Devices. GD Engineering also undertakes front end design studies on specific field developments to determine cost-effective pipeline pigging solutions, followed by the manufacture of specialist solutions for both subsea and topside applications. GD's engineering and manufacturing expertise is further complemented by a dedicated team of service engineers and technicians, who can provide complete inspection and maintenance service for both onshore and offshore installations.



BANDLOCK 2

- Benchmark Closure design for global high-pressure applications up to ASME Class 2500
- Quick access to pipelines, filters and pressure vessels
- Horizontal or Vertical installation
- Unique servo acting lip seal
- Approved to International design codes; ASME VIII Div. 1, PD5500, EN 13445



ROTALOCK

- Developed for smaller/low pressure applications up to ASME Class 300
- Low cost solution
- Superior alternative to screwed type closures



HI-T PIG ALERT

- Simple & Proven Technology
- Wide range of models including: mechanical flag and electrical switch
- Bi-directional operation
- Under pressure removal using valved models



SPECIAL PROJECTS

- Automated Multiple Pig Launching
- Fully automatic vessel closures for waste treatment plants
- Closures for Medical waste treatment vessels



SERVICE & AFTERMARKET

- Onshore and offshore inspection and maintenance
- In-situ machining/seal face refurbishment
- Pig Trap Refurbishment
- Training

Common Applications: Oil & Gas, Gas Transmission, Offshore

M&J VALVE

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M&J Valve, Houston







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Fax: +1 (281) 894-1332

M&J VALVE has provided valve products to the hydrocarbon pipeline, storage and distribution markets for over four decades. With a wide variety of flow control solutions for liquid, geothermal and gas markets, M&J's combination of know-how and field experience have garnered an impressive history of innovation.

	<h3 style="text-align: center;">GATE VALVES</h3> <ul style="list-style-type: none"> ■ Offered in sizes 2" - 84" ANSI 150-2500 ■ Top entry - In-line maintenance capability ■ Thru conduit, piggable, double block and bleed capability ■ Built in accordance to API 6D standards and ISO 9001 certification ■ Utilized in pipeline applications for Oil/Gas Products
	<h3 style="text-align: center;">CONTROL VALVES</h3> <ul style="list-style-type: none"> ■ Offered in sizes 1" - 20" ANSI 150-2500 ■ Rangeability of 350: 1 turn down ratio ■ Full Port in open position with Bi-directional flow capacity ■ Noise Abatement and Cavitation trim available ■ High Cv characteristics allows reduced valve size ■ Prime application to Oil/Gas Products and Refineries
	<h3 style="text-align: center;">SURGE RELIEF VALVES</h3> <ul style="list-style-type: none"> ■ Axial 'straight path' smooth flow pattern for high flow capacities Cv ■ Fast response-rapid open/close, seals tight without slamming shut ■ Low-noise and cavitation trim available ■ Large annular flow area allows high pressure recovery, low pressure drop ■ Offered in sizes 2" - 24" ANSI 150-900
	<h3 style="text-align: center;">SKID MOUNTED DESIGN</h3> <ul style="list-style-type: none"> ■ Complete package design with M&J manufactured products ■ Single source offering with proven Danflo Surge Valve ■ Factory training and field commissioning available at site ■ System designed to customer specific flowing conditions
	<h3 style="text-align: center;">4-WAY DIVERTER VALVES</h3> <ul style="list-style-type: none"> ■ Offered in sizes 3" - 24" ANSI 150-1500 ■ For use in Bi-Directional Meter Prover Systems ■ Top Entry design allows replacement of the seals in the field ■ Rapid operation with zero leakage for positive proving capabilities ■ Provided with SID feature to show positive indication of plug sealing
	<h3 style="text-align: center;">EXPANDING GATE VALVES</h3> <ul style="list-style-type: none"> ■ Offered in sizes 2" - 36" ANSI 150-1500 ■ Thru conduit, piggable, double block and bleed capacity ■ Top entry design for field repair capability ■ Mechanically seated design to provide maximum sealing capability in both low and high differential pressure conditions ■ Built in accordance to API 6D standards, ISO 9001 certification, and fire tested to API 6FA

Common Applications: Liquid, Geothermal, Oil & Gas








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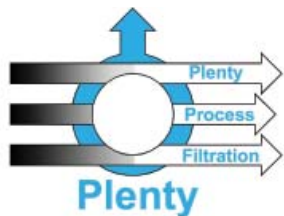
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Plenty offers a range of Industrial Filtration Solutions for multiple process industries worldwide. Products include: Simplex and Duplex cast and fabricated strainers, Self-Cleaning and Back-Flushing strainers, High Pressure Gas Filters, and Fabricated Bathtub strainers. All equipment is available in a variety of materials and design codes, and are all Pressure Equipment Directive, (PED 97/23/EC), compliant.

	<p style="text-align: center;">SIMPLEX TYPE STRAINERS</p> <ul style="list-style-type: none"> ■ Used in liquids and gases ■ Quick release cover eliminating the need for tools ■ Designed for pressure ratings up to ASME class 300 (51 Barg) ■ Fine SS mesh inserts can provide capabilities for particle removal down to 10 microns for liquid & 1 micron for gas ■ Fitted with cleanable baskets and inserts or disposable gas cartridges ■ Fabricated filters to suit special specifications
	<p style="text-align: center;">BACK FLUSH STRAINER</p> <ul style="list-style-type: none"> ■ Used where an automatic cleaning strainer is required ■ Ensures process continuity without manual labor ■ Provide a high level of cleaning efficiency with minimal product loss ■ Straining element is manufactured from Stainless Steel 316 ■ Fine SS mesh lined baskets provide capabilities for particle removal down to 50 micron
	<p style="text-align: center;">DUPLEX DUAL BASKET STRAINER</p> <ul style="list-style-type: none"> ■ Designed for applications where continuous operation is required ■ Integral flow changeover valve permits basket removal and cleaning without interruption of flow ■ Designed for pressure ratings up to ASME Class 300 ■ Fine SS mesh inserts can reduce particle removal down to 10 microns ■ Quick release covers eliminate the need for maintenance tools
	<p style="text-align: center;">SELF-CLEANING FILTERS</p> <ul style="list-style-type: none"> ■ Used where an automatic cleaning strainer is required even with low pressures ■ Ensures process continuity without manual labor or contact with hazardous materials ■ Fine SS wedge wire or perf elements down to 25 microns
	<p style="text-align: center;">GAS FILTRATION</p> <ul style="list-style-type: none"> ■ Designed to remove solids from gas streams ■ Elements include cleanable stainless steel or disposable fiberglass or polypropylene ■ High pressure rated to Fas PD5500/E13 & ASME VIII specification ■ Quick opening or bolted closures ■ Designed to meet customers operating conditions

Common Applications: Oil & Gas, Chemical, Power, Marine, Mining, Pulp & Paper, Steel, Offshore, Automotive, Food, Heating, Cooling, Water, Waste & Sewerage, Refining



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Plenty Process Filtration offers many of the world's largest ranges of Liquid & Gas Filters, Filter Separators, Coalescers, Cyclones, Carbon Bed Filters & Cartridge Filters. Our dedicated team of experienced engineers utilize their process and mechanical skills to custom design and build specialist filtration equipment to meet client specific application requirements. We serve and provide solutions in many different market sectors, including gas processing, distribution, oil production, water cleaning and purification, and petrochemical.



LIQUID FILTERS

- Plenty Process Filters design a range of filters in a variety of materials in accordance with international pressure vessel codes
- Single basket and Dual basket (Duplex) filters
- Fully automatic backflush filters
- Hi-Flow Filters
- Designed to incorporate either quick release or bolted closures
- Elements are either cleanable or disposable



DRY GAS FILTERS

- Designed to remove solids from gas streams
- Available in both horizontal or vertical units, in a variety of materials to meet international codes
- Quick opening or bolted cover
- Elements include cleanable stainless steel or disposable fiberglass or polypropylene
- Designed to meet customer operating conditions



FILTER SEPARATORS

- Designed to remove both solids and liquids from gas streams
- Constructed using Plenty Coalescing cartridges, vane units and/or cyclones to achieve required solid and liquid removal efficiency
- Unit available from pipe sizes 2" and above to suit any pressure class
- Available in a range of materials suitable for all operating conditions



COALESCERS

- Designed to coalesce fine liquid mist in gas streams into droplets considerably larger than their original size, such that they can be drained by gravity from the vessel
- Units available in both horizontal and vertical orientation with single or two stage construction



CARBON BED FILTERS

- Designed and manufactured in accordance with international design standards and codes
- Vertical construction mounted on skirts
- Carbon bed is sized to give optimum contact time with process fluid to ensure sufficient clean up in accordance to clients applications data



CARTRIDGE FILTERS

- Custom design Filters to meet specific application details
- Designed and manufactured in accordance with international pressure vessel code
- Range of materials of construction to meet customers specific operating parameters

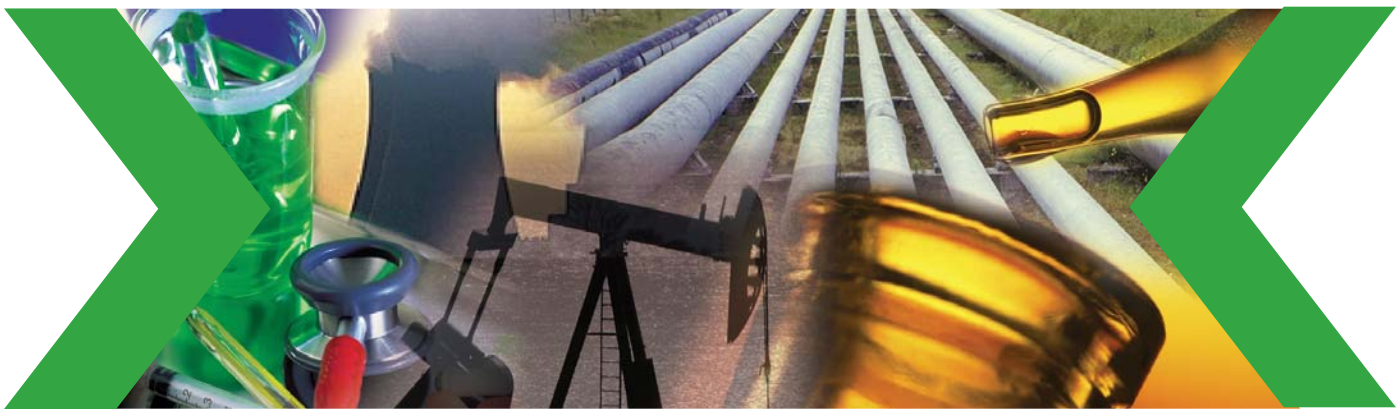


DEHYDRATION & FILTRATION



SPX Dehydration & Filtration, Headquarters
Ocala, FL

SPX Dehydration & Filtration is a leading manufacturer of filters, products and systems to remove moisture and contaminants from air, gas, fuel, lubricating oil and insulating fluids serving the petrochemical, power generation, electronics, and manufacturing markets worldwide.



CONTAMINANT REMOVAL SYSTEMS • FILTRATION SYSTEMS • DRYERS • RENTAL SOLUTIONS



delair®



Deltech



HANKISON



PNEUMATIC PRODUCTS



RentalDryers.com®





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Since 1936, **Delair** has focused its business on air & gas drying, filtration and purification, making the company one of the most experienced in the industry. As a pioneer in the areas of refrigerant drying, adsorption drying, and gas separation, Delair offers the industry the widest range of custom engineered systems. Delair encompasses all disciplines required to offer a solution-oriented product including in-house mechanical, electrical and processing expertise, as well as instrumentation, manufacturing and the offering of an installation with a full service contract and training program. Delair is a reliable partner for even the largest turnkey projects.

	<p style="text-align: center;">COMPRESSED AIR TREATMENT</p> <ul style="list-style-type: none"> ■ Refrigerated Dryers ■ Heatless Desiccant Dryers ■ Heatregenerated Desiccant Dryers ■ Heat of Compression Desiccant Dryers ■ Filtration Media ■ Consistent Pressure Dew Points ■ Multiple Industries ■ Low Energy Consumption Dryers
	<p style="text-align: center;">GAS TREATMENT</p> <ul style="list-style-type: none"> ■ Gas separation ■ Inert gas dryers ■ Vent Gas Purification systems ■ Wide range of applications ■ Reduce concentration of water vapor ■ Decreased Pressure Dew point ■ Regeneration Loop gas dryers
	<p style="text-align: center;">COMPRESSED NATURAL GAS DRYERS</p> <ul style="list-style-type: none"> ■ No gas losses ■ Steady dew point under any operating conditions ■ Low maintenance and trouble free duty
	<p style="text-align: center;">NITROGEN GENERATORS</p> <ul style="list-style-type: none"> ■ For Purging Tanks and Vessels ■ Oil & Gas Production ■ Inerting Storage Tanks ■ Purging Pipelines ■ Food and Packaging Industries ■ Wine Production ■ Heat Treatment and Production of Metals
	<p style="text-align: center;">CABLE & WAVEGUIDE</p> <ul style="list-style-type: none"> ■ Easy to Install and Service ■ Simple to Operate ■ Low Noise and Vibration ■ High Reliability ■ Safe ■ Low Power Consumption ■ High Efficiency ■ Reduced Risk of Corrosion
	<p style="text-align: center;">ATMOSPHERIC AIR TREATMENT</p> <ul style="list-style-type: none"> ■ RFB Atmospheric Air Dryer ■ CFB Heavy Duty Dryers ■ MVB Dehumidifier ■ HRB Desiccant Ambient Air Dryer ■ Custom Engineered Systems ■ Close Control of Humidity during Production ■ On site Service & Support

Common Applications: Petrochemical, Electronics, Oil & Gas, Power Generation, Food, Beverage, Packaging and Manufacturing



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Deltech products improve productivity and reduce operating costs in compressed air systems around the world. Specialists in dehydration and contaminant removal, our engineers leverage technological advancements to deliver the most advanced, energy efficient products available today. Deltech has been delivering innovative, problem solving air treatment systems since 1961 and today offers a vast range of products through a network of factory trained distributors and technicians.

	<p style="text-align: center;">REFRIGERATED DRYING AIR TECHNOLOGY</p> <ul style="list-style-type: none"> ■ HG/HGE Series affordable dry air ■ Pyramid Series with integrated filtration ■ Hydrogard with dew point stabilization ■ DHC/ES Series high capacity ■ Flow rates of 10 - 500 scfm ■ Flow rates of 100 - 3,000 scfm ■ Flow rates of 600 - 3,000 scfm ■ Flow rates of 4,000 - 20,000 scfm
	<p style="text-align: center;">HEATLESS DESICCANT COMPRESSED AIR DRYERS</p> <ul style="list-style-type: none"> ■ HCS Series automatic energy savings ■ HCL Series load selectable savings ■ HTC Series low dew point performance ■ WM Series wall mountable low flow ■ Flow rates of 40 - 5,400 scfm ■ Flow rates of 5 - 25 scfm
	<p style="text-align: center;">HEATED DESICCANT COMPRESSED AIR DRYERS</p> <ul style="list-style-type: none"> ■ RP Series externally heated technology ■ ZP Series blower purge technology ■ Point of use dew point control ■ Flow rates of 250 - 3,200 scfm
	<p style="text-align: center;">FILTRATION TECHNOLOGIES</p> <ul style="list-style-type: none"> ■ DF Series 7 grades of application ■ 810 Series high efficiency filtration ■ 100 Series color change filtration ■ ME Series mist eliminators ■ Flow rates of 20 - 21,250 scfm ■ Flow rates of 1,000 - 15,000 scfm ■ 3 stage filtration ■ Flow rates of 125 - 3,000 scfm
	<p style="text-align: center;">CONDENSATE MANAGEMENT & MEMBRANE TECHNOLOGY</p> <ul style="list-style-type: none"> ■ DMD Series Membrane Dryers ■ OWS & CS Series Oil Water Separators ■ NLD Series electronic drains ■ NLD Series pneumatic drains ■ Flow rates of 16 - 436 scfm ■ Flow rates up to 4,500 scfm ■ ADV Series automatic drains
	<p style="text-align: center;">BREATHING AIR PURIFICATION</p> <ul style="list-style-type: none"> ■ DM Series ■ Supply air for respirators, hoods, masks ■ Flow rates of 125 - 920 scfm ■ Color change indicator for safety






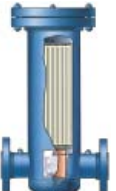
Common Applications: Petrochemical, Electronics, Manufacturing



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For more than 85 years **Dollinger** has delivered filtration solutions to purify air & gas, under the most demanding conditions. The Dollinger concept of filter design offers many benefits. Above all, it maximizes the effective filtration area - this results in lower differential pressure loss, increased dirt holding capacity, and extended service life. A variety of filter media is utilized to achieve multiple applications.

	<p style="text-align: center;">AF400 SERIES FILTERS</p> <ul style="list-style-type: none"> ■ Differential Pressure Gauge ■ Simple Maintenance ■ Modular Housing saves space and time ■ Element Grades offer Superior Filtration ■ Internal Automatic Drains ■ Energy Saving Pressure Monitor (optional) ■ Differential Pressure Slide Indicator ■ 7 Grades of Filtration Media
	<p style="text-align: center;">AIR INTAKE FILTERS</p> <ul style="list-style-type: none"> ■ 18 Standard Models ■ 3,000 - 72,000 scfm ■ All Weather Galvannealed Housing ■ Low Pressure Loss / High Efficiency ■ Efficiency to be 99% of 10 microns ■ Single Stage Panel Element Design ■ Optional Silencing Feature ■ Weather Hoods Standard Equipment
	<p style="text-align: center;">AIR - LIQUID & GAS PIPELINE</p> <ul style="list-style-type: none"> ■ Maximizes Filtration Area ■ Lower Differential Pressure Loss ■ Increased Dirt Holding Capacity ■ Extended Service Life ■ Rugged Steel Housing ■ ASME VIII Vessel Rating ■ Single Element Design ■ Low Maintenance Down Time
	<p style="text-align: center;">OIL MIST ELIMINATOR</p> <ul style="list-style-type: none"> ■ Collects 99.97% of Oil Droplets 0.3 Microns ■ High Efficient Coalescing Element ■ Gravity Drain ■ ASME VIII Vessel Rating ■ Long Element Life ■ Protects Down Stream Equipment ■ Virtually Maintenance Free ■ Low Operating Costs
	<p style="text-align: center;">COALESCING FILTERS</p> <ul style="list-style-type: none"> ■ Water / Oil Mist Removal ■ ASME VIII Vessel Rating ■ Bottom Service Access ■ Stainless Steel Optional ■ High Efficiency Filter Elements ■ Multiple Layers of Borosilicate Glass ■ Maximum Pleated Surface Area
	<p style="text-align: center;">PARTICULATE FILTERS</p> <ul style="list-style-type: none"> ■ Low Differential Pressure ■ ASME VIII Vessel Rating ■ Extended Service Life ■ Radial Fin Filter Element Design ■ Extensive Range of Filter Media ■ Interchangeable Elements ■ Liquid Removal ■ Optional Stainless Steel Screen

Common Applications: Power Generation, Oil & Gas, Chemical, Process Industries



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Hankison International is dedicated to supplying quality compressed air treatment products worldwide. Since 1948 Hankison has expanded to include five manufacturing facilities on three continents and a state-of-the-art research and development framework. The wide range of products manufactured include high capacity refrigerated dryers, high capacity regenerative desiccant dryers, combination refrigerated/desiccant dryers, breathing air purifiers, and membrane dryers.



REFRIGERATED AIR DRYERS

- HPR Series affordable non-cycling dryers
- HPR Plus Series with energy management
- HES Series with digital evaporator
- HV Series high volume dryers
- High inlet temperature dryers
- Easy to install packages
- Coldwave dew point stabilization
- Energy saving digital technology
- Engineered performance and efficiency
- PET applications



HEATLESS DESICCANT AIR DRYERS

- HHS Series automatic energy savings
- HHL Series selectable energy savings
- HHE Series simple timer controlled
- DHW Series wall mount version
- Matches purge air to demand
- Economizer settings to meet air demand
- Regular interval purge for high demand
- Automatic operation, maximize floor space



HEATED DESICCANT AIR DRYERS

- HPD Series heated purge technology
- HBP Series blower purge technology
- HDF Series specialty desiccant drying
- Guaranteed dew point performance
- Dedicated axial blower improves efficiency
- Point of use dew point control



FILTRATION TECHNOLOGY

- HF Series 7 grades of filtration
- HFM Series with auditing control
- M Series mist eliminators
- Specialty filtration technologies
- Easy installation, operation, maintenance
- Reduced compressed air power costs
- Insures against liquid slugging
- High temperature, pressure, corrosion



CONDENSATE MANAGEMENT & MEMBRANE TECHNOLOGY

- HMM Series membrane technology
- HGS Series oil/water separators
- HPE Series oil/water condensate separation
- Pneumatic and electronic drains
- Point of use alternative to air dryers
- Reduce oil water disposal charges
- Long life filtration
- Cost effective solutions



CATALITE BREATHING AIR PURIFICATION

- Produces breathing-quality air
- Supplies breathing, masks, hoods and helmets
- Removes compressed air contaminants
- Removes carbon monoxide

Common Applications: General Industrial, Chemical, Automotive, Hospital



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Kemp's heritage stands on a solid foundation of successfully solving the contamination problems of the most demanding industries: aerospace, food, beverage, chemical, biochemical, electronics, primary metals, power generation, petrochemical, pulp & paper, and a host of others utilizing compressed air and gas. Integrated system components allow the design of systems that specifically meet your needs. Highly engineered components provide the lowest life-cycle costs, increased reliability, and higher returns-on-investment.

	<h3 style="text-align: center;">ENGINEERED SOLUTIONS</h3> <ul style="list-style-type: none"> ■ Quality manufacturing ■ Innovative design ■ Engineered solutions for air, gas and liquid ■ Application engineered to your process ■ Factory trained service network ■ Experienced customer service team
	<h3 style="text-align: center;">HEATED DESICCANT DRYERS</h3> <ul style="list-style-type: none"> ■ 7000 Series Oriad internally heated ■ KPZ Series blower purge drying ■ KHP Series externally heated ■ Specialty gas drying applications ■ No process gas lost to purge ■ Stable dew points in all weather conditions
	<h3 style="text-align: center;">HEATLESS DESICCANT DRYERS</h3> <ul style="list-style-type: none"> ■ LPS Series consistent outlet dew points ■ KHE Series with energy management ■ KHL Series manual energy management ■ KHS Series fixed cycle fixed dew point ■ Low flow applications ■ Automatically adjusts to load ■ User controlled system programmed to load ■ Dependable and economical
	<h3 style="text-align: center;">DRI BREATHERS</h3> <ul style="list-style-type: none"> ■ Installed on storage tanks to prevent moisture ■ Prevent contamination of hygroscopic liquids ■ Reduce storage tank corrosion ■ Sizes ranging from 3.8 GPM - 115 GPM ■ Color change moisture indicator ■ DRB 3 Reactivator available for desiccant
	<h3 style="text-align: center;">FLAME ARRESTERS</h3> <ul style="list-style-type: none"> ■ Explosion prevention and containment ■ Available for class C and class D gasses ■ Special designs available for class B gasses ■ Eliminate straight through heat conduction ■ Prevent the flow-through of hot particles ■ Maximum protection at minimum cost ■ Custom engineered arresters per application ■ The protected side of the barrier remains cool
	<h3 style="text-align: center;">CONDENSATE MANAGEMENT</h3> <ul style="list-style-type: none"> ■ KME Series mist eliminator ■ Automatic Timer drains ■ Mechanical Demand drains ■ Electric Demand drains ■ Removes gross liquids, prevents slugging ■ Regular drainage at user selectable times ■ Do not waste any valuable compressed air ■ Detect liquid and only operate when filled

Common Applications: Petrochemical, Power Generation, Electronics and Manufacturing



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Pneumatic Products is the world's leading manufacturer of precision-engineered compressed air and gas purification equipment. Supported around the globe, this industry leading technology, system hardware, and support services define a standard setting level of commitment to industry. Backed by the Pneumatic Products Commitment (PPC), pre-engineered products, or custom-built to your specifications, these systems protect the pneumatically powered investments of global leaders of industry.



HEATLESS DESICCANT AIR DRYERS

- LHA Series low flow desiccant dryer
- DHA/CDA Series standard and custom
- DSE/DSS/DHD Series industrial grade
- CHA Series large flow heatless dryers
- Consistent outlet dew points
- Critical applications and hostile environments
- Durable economic industrial applications
- Corrosive, toxic or explosive environments



HEATED DESICCANT AIR DRYERS

- DEA Series internally heated
- CAB/IBP Series blower regenerated
- PHD Series externally heated
- NRG/LES Series waste heat
- Low purge energy savings
- No process gas lost to purge
- All weather dew point control
- Compressor outlet heat regeneration



HIGH VOLUME REFRIGERATED COMPRESSED AIR DRYERS

- PNC Series non-cycling constant dew point
- ESR Series cycling variable demand
- Controls provide energy efficiency
- Fully automatic cycling under rated conditions



FILTERS AND ADSORBERS

- Small flow filtration
- P2000 Series high performance filters
- PCC Series large flow filtration
- PCS Series premium quality filtration
- Oil and water vapor adsorbers
- PME Series mist eliminators
- High performance air and gas filter cartridges
- State-of-the-art filtration media
- Exceptional air quality and low pressure drop
- Critical applications and hostile environments
- Remove unwanted hydrocarbon vapors
- Minimal pressure drop improves demand



SPECIALTY DEHYDRATION TECHNOLOGIES

- BAP Series breathing air purification
- CNG Series single tower natural gas dryer
- CNG Series twin tower natural gas dryer
- HCP Series hydrogen coolant purifiers
- Prevents compressed air respiratory hazards
- Removes water vapor in small-medium flows
- Specifically engineered for large flows
- Electrical power plant generator applications



CONDENSATE MANAGEMENT

- Automatic timer activated drain valves
- Mechanical demand operated drain valves
- Electronic demand operated drain valves
- Allows drainage at predetermined settings
- Only operate when filled to certain levels
- Drain closes automatically when drained




Common Applications: Chemical, Oil & Gas, Power Generation, Hospital



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Air Dryers by **RentalDryers.com**, have been engineered to make transportation, installation, and operation quick and easy for challenging applications. With a fleet of prepackaged compressed air treatment systems available for immediate shipment throughout North America, RentalDryers.com is prepared to respond to your needs, wherever and whenever that may be. RentalDryers.com is part of SPX Dehydration & Filtration, the leading global manufacturer of air filtration and dehydration equipment.

	<p style="text-align: center;">COOLING PRODUCTS</p> <ul style="list-style-type: none"> ■ Aftercooler Filter Packages ■ Membrane Dryer/Aftercooler ■ Aftercooler/Separator ■ Aftercooler/Dryer/Filter Package ■ Obtain oil free air with lubricated compressors ■ Dry and cool your compressed air ■ Remove up to 70% of the water ■ A complete air treatment system in one package
	<p style="text-align: center;">DRYING PRODUCTS</p> <ul style="list-style-type: none"> ■ Desiccant Dryer Package ■ Refrigerated Dryer Package ■ Desiccant/Refrigerated/Filtration System ■ For dew points of -40° F and -100° F ■ For dew points of 38° F and 50° F ■ Selectable dew points of +38° F and -40° F
	<p style="text-align: center;">FILTER PRODUCTS</p> <ul style="list-style-type: none"> ■ Liquid Oil Removal ■ Oil Vapor Removal ■ Separator/filter ■ Coalescing type oil removal filter ■ Removes oil aerosols for virtually oil-free air ■ Removes oil vapor and other hydrocarbons ■ Air line filter ■ Oil vapor removal filter

Common Applications: Petrochemical, Power Generation, Electronics and Manufacturing

VOKES

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Since the 1920's the name **VOKES** has been synonymous with oil filtration. Whether filtering fuel oil, lubricating oil or insulating oil, Vokes' filters can be found on industrial machinery all over the world. With robust designs which stand the test of time, Vokes' filters will be found on applications as diverse as war ships, chemical plants, power stations and offshore rigs.

	<h3>FUEL & LUBRICATING OIL FILTERS</h3> <ul style="list-style-type: none"> ■ Simplex & duplex designs ■ Drop sump & top servicing filters available ■ Robust design and construction ■ Corrosion resistant filter elements ■ High dirt loading media ■ Media unaffected by water, salt or engine acids ■ Cartridges incorporate integrated gasket
	<h3>OIL/WATER COALESCERS</h3> <ul style="list-style-type: none"> ■ For removal of water from fuel oil ■ Free water removal in marine applications ■ Can be designed for military specifications ■ Robust filter and cartridge design ■ No moving parts ■ Easy maintenance ■ No external supplies (power, air) required ■ Steam turbine applications
	<h3>OIL MIST ELIMINATORS</h3> <ul style="list-style-type: none"> ■ Eliminates all visible oil mist ■ Ideal for diesel or natural gas engines ■ Discharges clean air to the local atmosphere ■ Can be mounted away from the engine ■ APB automatically balances sump pressures
	<h3>INSULATING OIL RECONDITIONING FILTERS - STREAMLINE®</h3> <ul style="list-style-type: none"> ■ Removes water and particulates ■ For electrical insulating oil purification ■ Improves the dielectric strength ■ Extends insulating oil and transformer life ■ Available as fixed site or mobile units ■ Removes free and dissolved water ■ Water reduction to 90% in single pass

Common Applications: Diesel engines, gas turbines, transformers, natural gas engines, steam turbines

Common Applications



Adhesives & Sealants



Alternative Energy



Automotive



BioTech



Chemical Processing



Dairy



Electronics



Environmental Protection



Food & Beverage



HVAC



Marine



Mining & Minerals



Oil & Gas



Paint, Ink & Coatings



Personal Care



Pharmaceutical/Labs



Power



Pulp & Paper



Rubber & Plastics



Water & Wastewater

SPX Flow Technology R&D / Testing Capabilities

SPX Process Equipment and Flow Control lab facilities are the most highly sophisticated and technically driven in their respective processing industries.



The testing and development needs involved with each of these applications are very diverse. Flexibility is a key component. That is why our laboratory facilities were specifically designed to accommodate a broad range of tests with the highest degree of flexibility. Depending on your specific need, we offer testing and consulting services on a fee basis.

- *Whenever possible we prefer to test your actual materials. This may range from a simple rheology definition to the preparation of a complete recipe in our explosion-proof laboratory. Or, we may run a full-scale test at your facility.*
- *We guarantee our recommendations and are available to assist all the way through installation and plant start up.*
- *If we cannot process your material due to safety concerns or process conditions we will work with you to find a material to mimic the properties of your process.*



SPX Dehydration & Filtration prides itself on a range of products designed to meet the most arduous of conditions. The result of extensive research and development, all of the compressed air dryers and fluid filters have been engineered to offer a selection of benefits, which can be simulated in the company's laboratories across the world. Whether the product is a fully engineered natural gas pipeline filter or a small refrigerated compressed air dryer, each has received a level of engineering expertise and testing that is your assurance of product suitability, even in the most extreme conditions.

With a focus on performance with minimum energy input, SPX Dehydration & Filtration's products have been designed to give you the output you need, while keeping your energy cost under control and helping you to reduce your carbon footprint.

The new **SPX Asia Pacific Flow Technology Lab** is designed to provide application and product development testing and research to support local commercial efforts. Located in Shanghai, China, the



facility serves as an extension of the SPX technical capabilities in the Asia Pacific region. Also, there are many SPX Brand products on display in the showroom at SPX Shanghai headquarters.



- *Pumps, valves, drives, heat exchangers, mixers and mills in an endless variety*
- *Vessels from 200 ml to 450,000 gallons*
- *State-of-the-art digital data acquisition systems*
- *Brookfield Viscometer with Small Sample Adapter & Temperature Control*
- *Haake High Shear Viscometer*
- *Accelerometers, Torque Cells, Load Cells, Pressure Transducers, Flow Meters, Sound Level Meters*
- *Motion analyzer for pump cavitation analysis*
- *Laser Doppler Velocimeter*
- *Microtrac and Horiba particle size analyzer*
- *High power microscopes with digital image capture*
- *Spectrophotometer*
- *Gloss Meter*
- *Full Computational Fluid Dynamic and Finite Element Analysis using the latest software*
- *Feasibility studies for process systems*

SPX Flow Technology Aftermarket Services

An International Customer-Focused Service Platform



SPX Process Equipment and Flow Control Service and Parts Solutions

- Repair and exchange services
- Equipment upgrade services
- Installation and start-up support
- Predictive and preventive maintenance
- Remote Diagnostics
- Process and mechanical consulting
- Asset management
- On-site field support
- Training

Service locations are the hub for our parts distribution. We can analyze your spare parts inventory to identify critical, damaged and obsolete spare parts, enabling us to create an inventory reduction program for you.

- High quality OEM spare parts and consumables
- Quick-ship delivery services available



SPX Flow Technology Services provide innovative ways to improve your productivity and profitability while minimizing your asset investments.



SPX Dehydration & Filtration Aftermarket Solutions

Preserving a compressed air dryer or filter at its peak performance requires occasional, but essential after care. All SPX Dehydration & Filtration brands offer a full range of aftermarket products to ensure that the

As asset reduction continues to be a priority in the process industry, partnering with SPX Flow Technology ensures that your production requirements remain our number one focus.

Multiple service facilities are strategically located throughout the world, providing a wide range of support 24 hours a day.



original equipment continues to operate at its maximum performance. Available from a worldwide network of companies and distributors, and generally held in stock, you are never far from the correct components which will help you get the ultimate performance from your investment.

See specific brand pages for additional contact details.



OFM, provides a full range of valve and wellhead service, repair, remanufacturing and inventory management of customer assets for the pipeline, petrochemical, hydrocarbon storage well and geothermal industries. OFM specializes in reconditioning of valves from all manufacturers, and turnkey valve field services. OFM continues to manufacture the complete underground storage wellhead hook-up in accordance to our API 6A and 6D license.

Service and Sales Locations include:
 Sante Fe & Odessa, TX
 Email: OFM@spx.com

The businesses making up the **SPX Flow Technology** segment design, manufacture and market solutions and products used to process, blend, meter and transport fluids as well as air and gas filtration and dehydration products serving sanitary, biopharmaceutical, chemical, marine, oil and gas, power, industrial and municipal markets worldwide.



For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.spx.com.

SPX reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Certified drawings are available upon request.