Johnson Pump brand

INDUSTRIAL PUMP PRODUCT OVERVIEW

Johnson Pump
Welcome to a World of Pumps

For more than 75 years Johnson Pump brand pumps have been developed, manufactured and marketed for industrial use. This experience and expertise, combined with our wide product range, makes us one of the most reliable pump producers world wide.

At SPX we believe in 'life cycle economy'. Buying a pump is not just a one-off transaction – the pump has to keep running for a long time. Service and maintenance is therefore as important to us as it is to provide our customers with a suitable solution to each and every unique application. SPX is therefore much more than a Johnson Pump brand manufacturer – We are your solution provider!

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader with over $5 billion in annual revenue, operations in more than 35 countries and over 15,000 employees. The company’s highly-specialized, engineered products and technologies are concentrated in Flow Technology and energy infrastructure. Many of SPX’s innovative solutions are playing a role in helping to meet rising global demand for electricity and processed foods and beverages, particularly in emerging markets. The company’s products include food processing systems for the food and beverage industry, critical Flow components for oil and gas processing, power transformers for utility companies, and cooling systems for power plants. For more information, please visit www.spx.com

Johnson Pump brand models

**Centrifugal pumps**
- According to ISO, EN, API
- Multistage
- Magnetic Drive
- Self-priming

**Positive Displacement pumps**
- Internal Gear pumps
- Rotary Lobe pumps
- Flexible Impeller pumps
- Diaphragm pumps

**QUALITY**

SPX’s research departments are busy experimenting with new raw materials, refining pumping principles and developing new products. The efforts of our R&D are put into production at our plants where we assure the quality of our work in accordance with ISO 9001.

**WORLDWIDE DISTRIBUTION**

With our worldwide network of SPX affiliates and independent distributors we are working closely with you to provide the best solution for your liquid transport needs.

**Europe**
- Belgium
- Denmark
- Finland
- France
- Germany
- Italy
- the Netherlands
- Norway
- Spain
- Sweden
- Switzerland
- United Kingdom

**Africa**
- Americas
- Asia
- Australia
- India
- Middle East

**Distributors**
- See our web page for a detailed list
It’s all about Finding Solutions

Every customer’s process is in some way unique; it’s that something extra that places you ahead of all the rest. Your unique process may require a non-standard solution. We here at SPX are keen listeners to the special requirements of our customers. With our wide range of Johnson Pump brand standard product offerings to build on we can offer that little extra in the form of materials and design solutions to keep you ahead.

From our sales, support and application personnel to R&D, we pride ourselves in working together with you on an affordable, working solution for your special needs. In addition to pumps, through SPX you will have access to a variety of flow technologies; from valves and mixers to heat exchangers and entire systems.

Contact your local Johnson Pump brand representative for an investment in your future today!

**ABRASION RESISTANT COATINGS**
Lime slurries, paper fillers, dirty sump water and the like can unnecessarily wear out a pump. Coatings such as Wolfram or plasma nitriding on pump housing, rotors and impellers can greatly increase the service life of your pumps.

**NOISE REDUCTION**
With a specially designed impeller we were able to reduce noise levels in tank farm applications where large numbers of our FreFlow self-priming centrifugal pumps are in use.

**SAFE HANDLING OF HOT WATER**
For a hospital hot water recirculation project we combined a modified pump casing with externally mounted heat exchanger on the mechanical seal to ensure reliable, safe operation.

**ULTRA PURE WATER TREATMENT PLANT**
SPX collaborated with the plant owners on the design of pressure pumps to be used in reverse osmosis in an innovative enterprise where waste water is purified and used as steam injection for residual oil extraction from mature oil fields.

**IMPROVED FLOW CHARACTERISTICS**
Development of new multilobe rotors for uniform flow of sausage meats and even less pulsation and resonance in the pipeworks when pumping thin liquids.
**Centrifugal Pumps** are the most common and well-established pumps on the market. They come in many different models and can transfer fluids with high efficiency over a wide range of flows and pressures. Johnson Pump brand offers several series of centrifugal pumps, many of which comply with ISO, DIN and API standards.

Johnson Pump brand’s Combi system is a modular programme of centrifugal pumps with a high degree of interchangeability of parts between the different pump constructions.

The modular design makes it possible to construct many design variants and it also provides a large degree of interchangeability of components between various pump types and even between the different pump families. This, together with the wide range of materials available, makes it easy to supply the correct design for each specific application; allowing customers to be served in an optimal way.

SPX supplies you with a full range of documentation for our pumps:

- ATEX
- 3A
- EHEDG
- FDA, USP VI
- Material traceability & certification 2.1, 2.2 and 3.1
- QHP tests
- Vibration tests
- Noise level tests

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**CombiNorm** utility or general purpose pump according to EN733
- Max. capacity: 1500 m³/h (6600GPM)
- Max. head: 100 m (328 ft)
- Max. pressure: 10 bar (145 psi)
- Max. temp: 200°C (392°F)
- Max. speed: 3600rpm
- Materials: cast iron, nodular cast iron, bronze

**CombiChem** heavy duty chemical pump according to ISO5199 and EN22858
- Max. capacity: 800 m³/h (3520 GPM)
- Max. head: 160 m (525 ft)
- Max. pressure: 16 bar (232 psi)
- Max. temp: 200°C (392°F)
- Max. speed: 3600rpm
- Materials: cast iron, nodular cast iron, bronze, stainless steel

**ComBiPrime H & V** horizontal & vertical (variable position suction bend), hydraulics according to EN733
- Max. capacity: 500 m³/h (2200 GPM) [H]
  800 m³/h (3520 GPM) [V]
- Max. head: 100 m (328 ft)
- Max. pressure: 10 bar (145 psi)
- Max. temp: 80°C (176°F)
- Max. speed: 3600rpm
- Materials: cast iron, bronze

**PreFlow** horizontal, handles gas and particle content
- Max. capacity: 350 m³/h (1540 GPM)
- Max. head: 80 m (262 ft)
- Max. pressure: 9 bar (131 psi)
- Max. temp: 95°C (203°F)
- Max. speed: 3600rpm
- Materials: cast iron, bronze, stainless steel

**CombiMAG** heavy duty seal-less pump according to ISO5199 and EN22858
- Max. capacity: 550 m³/h (2420 GPM)
- Max. head: 160 m (525 ft)
- Max. pressure: 16 bar (232 psi)
- Max. temp: 300°C (572°F)
- Max. speed: 3600rpm
- Materials: cast iron, nodular cast iron, stainless steel, duplex, Alloy 20, Hastelloy C

**CombiMagBloC** heavy duty seal-less close-coupled pump according to ISO5199 and EN22858
- Max. capacity: 280 m³/h (1230 GPM)
- Max. head: 140 m (459 ft)
- Max. pressure: 16 bar (232 psi)
- Max. temp: 200°C (392°F)
- Max. speed: 3600rpm
- Materials: cast iron, nodular cast iron, stainless steel, duplex, Alloy 20, Hastelloy C

**CombiTherm** specially developed for thermal oil (DIN4754) and hot water applications (ratings and dimensions to EN733)
- Max. capacity: 400 m³/h (1761 GPM)
- Max. head: 160 m (525 ft)
- Max. pressure: 16 bar (232 psi)
- Max. temp: Thermal oil 350°C (662°F)
  Hot water 190°C (374°F)
- Max. speed: 3600rpm
- Materials: nodular cast iron
### Monobloc pumps

**CombiPro**
- Heavy duty process pump according to API610, API682 and API685
- Max. capacity: 350 m³/h (1540 GPM)
- Max. head: 160 m (525 ft)
- Max. pressure: 35 bar (508 psi)
- Max. temp: 350 °C (662 °F)
- Max. speed: 3600 rpm
- Materials: carbon steel, 13% Cr-steel, stainless steel (316)

**CombiBloc**
- Compact close-coupled pump
- Max. capacity: 850 m³/h (3740 GPM)
- Max. head: 105 m (344 ft)
- Max. pressure: 10 bar (145 psi)
- Max. temp: 120 °C (248 °F)
- Max. speed: 3600 rpm
- Materials: cast iron, bronze, stainless steel

### Vortex-type pumps

**CombiDirt**
- Horizontal or vertical pump utilizing vortex principle, handles particles and gaseous content
- Max. capacity: 420 m³/h (1850 GPM)
- Max. head: 40 m (130 ft)
- Max. pressure: 10 bar (145 psi)
- Max. temp: 80 °C (176 °F)
- Max. speed: 1800 rpm
- Max. free passage: 100 mm (3.94")
- Materials: cast iron, nodular cast iron, stainless steel, super duplex

### Multistage pumps

**KGE**
- Horizontal, handles gas and particle content
- Max. capacity: 100 m³/h (440 GPM)
- Max. head: 60 m (197 ft)
- Max. pressure: 8 bar (116 psi)
- Max. temp: 95 °C (203 °F)
- Max. speed: 3600 rpm
- Materials: cast iron

**MCH & MCV**
- Horizontal & vertical
- Max. capacity: 100 m³/h (440 GPM)
- Max. head: 340 m (1120 ft)
- Max. pressure: 40 bar (580 psi)
- Max. temp: 150 °C (302 °F) [MCH]
- Max. speed: 3600 rpm
- Materials: cast iron

**MCHZ**
- Horizontal, self-priming
- Max. capacity: 100 m³/h (440 GPM)
- Max. head: 340 m (1120 ft)
- Max. pressure: 40 bar (580 psi)
- Max. temp: 120 °C (248 °F)
- Max. speed: 3600 rpm
- Materials: cast iron

### InLine pumps

**CombiLine**
- Close-coupled circulation pump on extended shaft motor
- Max. capacity: 500 m³/h (2000 GPM)
- Max. head: 35 m (115 ft)
- Max. pressure: 10 bar (145 psi)
- Max. temp: 140 °C (284 °F)
- Max. speed: 1800 rpm
- Materials: cast iron

**CombiLineBloc**
- Close-coupled circulation pump on stub shaft to IEC motor
- Max. capacity: 450 m³/h (1980 GPM)
- Max. head: 100 m (328 ft)
- Max. pressure: 10 bar (145 psi)
- Max. temp: 120 °C (248 °F)
- Max. speed: 3600 rpm
- Materials: cast iron, bronze

### Vertical pumps

**CombiFlex, Universal, Bloc**
- Variable position suction bend, hydraulics according to EN733
- Max. capacity: 1500 m³/h (6600 GPM)
- Max. head: 140 m (459 ft)
- Max. pressure: 10 bar (145 psi)
- Max. temp: 200 °C (392 °F)
- Max. speed: 3600 rpm
- Materials: cast iron, bronze

**CombiSump**
- Vertical pump with dry motor EN733, EN22858 and API610
- Max. capacity: 1500 m³/h (6600 GPM)
- Max. head: 160 m (525 ft)
- Max. pressure: 16 bar (229 psi)
- Max. temp: 160 °C (320 °F)
- Max. speed: 3600 rpm
- Materials: cast iron, nodular cast iron, bronze, stainless steel, carbon steel, 13% Cr-steel

**CombiWell**
- Vertical pump with dry motor for paint/solvent degreasing spray units
- Max. capacity: 300 m³/h (1320 GPM)
- Max. head: 45 m (148 ft)
- Max. pressure: 10 bar (145 psi)
- Max. temp: 80 °C (176 °F)
- Max. speed: 3000 rpm
- Materials: cast iron, stainless steel
Johnson Pump
Positive Displacement
Pumps

**Rotary Lobe Pumps** are easy to clean and have gentle product-handling characteristics. They contain few cavities, which reduces the risk of bacterial growth and makes them particularly suitable for the transport of sensitive fluids – from glue to whole strawberries.

**Impeller Pumps** have good suction characteristics and the ability to pump solid particles. Impeller pumps have a wide range of applications in all types of industries.

**Air Operated Double Diaphragm Pumps** are used in all types of industries for transporting a wide variety of liquids. Clean or polluted, thin or viscous, abrasive or aggressive.

**Internal Gear Pumps** can be used in all types of manufacturing applications for the transportation of both thin and thick materials, from chocolate to diesel fuel.

SPX supplies you with a full range of documentation depending on need and local regulations:

- ATEX
- 3A
- EHEDG
- FDA, USP VI
- Material traceability & certification 2.1, 2.2 and 3.1
- QHP tests
- Vibration tests
- Noise level tests

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**Flexible Impeller pumps**

**F-19 12/24 V DC**
self-priming extra heavy duty bronze pumps

| Max. capacity | 55 l/min (14.5 GPM) |
| Max. pressure | 1.2 bar (17.4 psi) |
| Max. temp     | 55°C (130°F) |
| Materials:    | PTMT (thermoplastic polyester) or bronze |

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**Internal Gear pumps, self-priming**

**TopGear TG L**
for low viscosity liquids

| Max. capacity | 8 m³/h (35 GPM) |
| Max. pressure | 30 bar (435 psi) |
| Max. temp     | 250°C (480°F) |
| Max. viscosity| 60 000 mPas / cP |
| Materials:    | nodular cast iron |

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**Protect your valuable process equipment from debris damage**

A filter with appropriate strainer upstream from your equipment can effectively protect your investments from potentially damaging solids. Downstream a filter can ensure product homogeneity and recover valuable solids. **TopFilter** is our range of single and dual filters for cost-effective protection of pipeline equipment, liquid cleaning or salvaging valuable solids.

**Single filters** for applications where the flow can be temporarily shut down for cleaning of the filter basket.

**Dual filters** for applications requiring uninterrupted flow with minimal loss of pressure. The flow is diverted to a second basket while the first basket is cleaned.

**Multiple basket filters** are of a space saving construction, providing a large filter area with low pressure drops in a compact, easy to service unit.

Mesh sizes 20–300 mesh, pleated elements giving filtration down to 10 µm are also available.
TopFilter – Filters and strainers

**Topfilter TFOV**

- **Single filter**
- **Pipe sizes**: 20 – 150 mm (¾” – 6”)
- **Max. pressure**: 50 bar (725 psi)
- **Connections**: BSP, NPT
- **Flange**: BS10, BS4504, ANSI, DIN
- **Max. temp**: 200°C (392°F)
- **Materials**: cast iron, cast steel, gunmetal, stainless steel

**Topfilter TFOMV**

- **Single, multibasket filter**
- **Pipe sizes**: 200 – 250 mm (8” – 10”)
- **Max. pressure**: 13.8 bar (200 psi)
- **Connections**: BSP, NPT
- **Flange**: BS10, BS4504, ANSI, DIN
- **Max. temp**: 200°C (392°F)
- **Materials**: cast iron, cast steel, gunmetal, stainless steel, duplex

**Topfilter TFOW**

- **Dual filter**
- **Pipe sizes**: 20 – 200 mm (¾” – 8”)
- **Max. pressure**: 50 bar (725 psi)
- **Connections**: BSP, NPT
- **Flange**: BS10, BS4504, ANSI, DIN
- **Max. temp**: 200°C (392°F)
- **Materials**: cast iron, cast steel, gunmetal, stainless steel, duplex

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Rotary Lobe pumps

**TopLobe Plus**

- **Hygienic tri-lobe rotors**
- **Max. capacity**: 124 m³/h (547 GPM)
- **Max. pressure**: 10 bar (145 psi)
- **Max. temp**: 100°C (212°F)
- **Max. viscosity**: 100 000 mPas / cP
- **Materials**: cast iron, cast steel, gunmetal, stainless steel

**TopLobe**

- **Hygienic tri-lobe rotors**
- **Max. capacity**: 125 m³/h (550 GPM)
- **Max. pressure**: 22 bar (319 psi)
- **Max. temp**: 70°C (158°F)
- **Max. viscosity**: 100 000 mPas / cP
- **Materials**: stainless steel (316L), duplex

**Top Wing**

- **High hygienic bi-wing & multilobe rotors**
- **Max. capacity**: 156 m³/h (687 GPM)
- **Max. pressure**: 16 bar (218 psi)
- **Max. temp**: 150°C (300°F)
- **Max. viscosity**: 80 000 mPas / cP
- **Materials**: stainless steel (316L), duplex

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Air Operated Double Diaphragm pumps

**TopAir**

- **Self-priming multipurpose pump with peripheral flow**
- **Max. capacity**: 48 m³/h (211 GPM)
- **Max. pressure**: 7 bar (102 psi)
- **Max. temp**: 120°C (248°F)
- **Max. viscosity**: 10 000 mPas / cP
- **Materials**: PP, aluminium, cast iron, stainless steel, PTFE, PVDF, PVC

**OptiFlo**

- **Self-priming multipurpose pump with central flow**
- **Max. capacity**: 8 m³/h (36 GPM)
- **Max. pressure**: 7 bar (102 psi)
- **Max. temp**: 85°C (185°F)
- **Max. viscosity**: 6 000 mPas / cP
- **Materials**: PP, aluminium, stainless steel