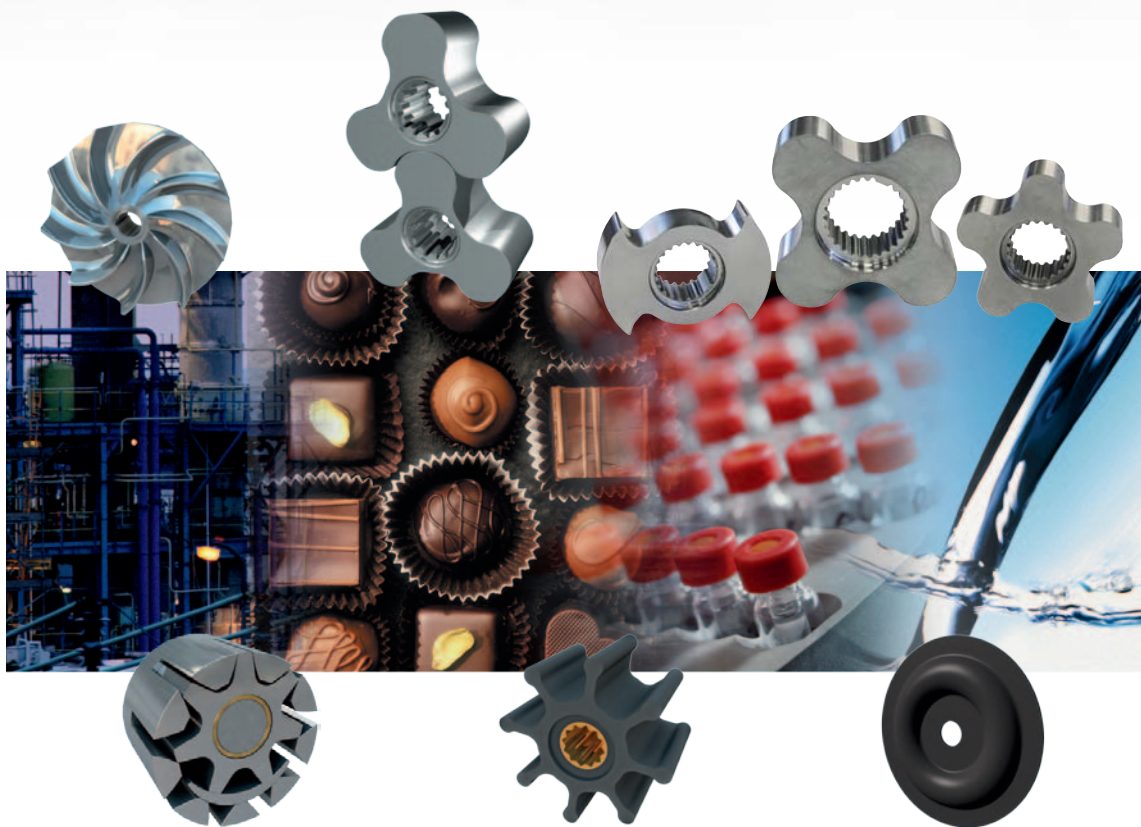


Johnson Pump brand

INDUSTRIAL PUMP PRODUCT OVERVIEW



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 www.johnson-pump.com, www.spx.com

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.



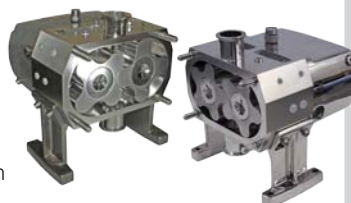
ULTRA PURE WATER TREATMENT PLANT

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.



Typical product applications

PHARMACEUTICAL



FOOD & BEVERAGE



HORTICULTURE



CHEMICAL

GENERAL INDUSTRY



PETROCHEMICAL

BUILDING WATER SERVICES



WASTE WATER TREATMENT

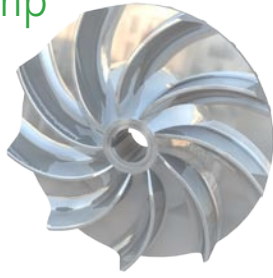


PULP & PAPER

SHIPBUILDING



Johnson Pump Centrifugal Pumps



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

Standardized pumps



COMBINORM

utility or general purpose pump according to EN733

Max. capacity	1500 m ³ /h (6600 GPM)
Max. head	100 m (328 ft)
Max. pressure	10 bar (145 psi)
Max. temp	200 °C (392 °F)
Max. speed	3600 rpm
Materials:	cast iron, nodular cast iron, bronze



COMBI-CHEM

heavy duty chemical pump according to ISO 5199 and EN 22858

Max. capacity	800 m ³ /h (3520 GPM)
Max. head	160 m (525 ft)
Max. pressure	16 bar (232 psi)
Max. temp	200 °C (392 °F)
Max. speed	3600 rpm
Materials:	cast iron, nodular cast iron, bronze, stainless steel

Self-priming pumps



COMBIPRIME H & V

horizontal & vertical (variable position suction bend), hydraulics according to EN733

Max. capacity	500 m ³ /h (2200 GPM) [H] 800 m ³ /h (3520 GPM) [V]
Max. head	100 m (328 ft)
Max. pressure	10 bar (145 psi)
Max. temp	80 °C (176 °F)
Max. speed	3600 rpm
Materials:	cast iron, bronze



FREFLOW

horizontal, handles gas and particle content

Max. capacity	350 m ³ /h (1540 GPM)
Max. head	80 m (262 ft)
Max. pressure	9 bar (131 psi)
Max. temp	95 °C (203 °F)
Max. speed	3600 rpm
Materials:	cast iron, bronze, stainless steel

Magnetic Drive pumps



COMBI-MAG

heavy duty seal-less pump according to ISO 5199 and EN 22858

Max. capacity	550 m ³ /h (2420 GPM)
Max. head	160 m (525 ft)
Max. pressure	16 bar (232 psi)
Max. temp	300 °C (572 °F)
Max. speed	3600 rpm
Materials:	cast iron, nodular cast iron, stainless steel, duplex, Alloy 20, Hastelloy C



COMBI-MAGBLOC

heavy duty seal-less close-coupled pump according to ISO 5199 and EN 22858

Max. capacity	280 m ³ /h (1230 GPM)
Max. head	140 m (459 ft)
Max. pressure	16 bar (232 psi)
Max. temp	200 °C (392 °F)
Max. speed	3600 rpm
Materials:	cast iron, nodular cast iron, stainless steel, duplex, Alloy 20, Hastelloy C

Thermal oil / hot water pumps



COMBI-THERM

specially developed for thermal oil (DIN 4754) and hot water applications (ratings and dimensions to EN733)

Max. capacity	400 m ³ /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	3600 rpm
Materials:	nodular cast iron



COMBIPRO

heavy duty process pump according to API610, API682 and API685

Max. capacity	350 m ³ /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)

Monobloc pumps



COMBIBloc

compact close-coupled pump

Max. capacity	850 m ³ /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 m ³ /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



KGE

horizontal, handles gas and particle content

Max. capacity	100 m ³ /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

Multistage pumps



MCH & MCV

horizontal & vertical

Max. capacity	100 m ³ /h (440 GPM)
Max. head	340 m (1120 ft)
Max. pressure	40 bar (580 psi)
Max. temp	150 °C (302 °F) [MCH] 120 °C (248 °F) [MCV]
Max. speed	3600 rpm
Materials:	cast iron, bronze



MCHZ

horizontal, self-priming

Max. capacity	100 m ³ /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



MDR

Close-coupled seal-less pump

Max. capacity	30 m ³ /h (130 GPM)
Max. head	24 m (78 ft)
Max. pressure	3 bar (43 psi)
Max. temp	100 °C (212 °F)
Max. speed	2800 rpm
Materials:	PP, PVDF

InLine pumps



COMBI LINE

close-coupled circulation pump on extended shaft motor

Max. capacity	500 m ³ /h (2200 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



COMBI LINE BLOC

close-coupled circulation pump on stub shaft to IEC motor

Max. capacity	450 m ³ /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



COMBI FLEX, -UNIVERSAL, -BLOC

variable position suction bend, hydraulics according to EN733

Max. capacity	1500 m ³ /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

Submersible pumps



COMBI SUMP

vertical pump with dry motor EN 733, EN 22858 and API 610

Max. capacity	1500 m ³ /h (6600 GPM)
Max. head	160 m (525 ft)
Max. pressure	16 bar (232 psi)
	[35 bar (508 psi) API 610]
Max. temp	160 °C (320 °F)
Max. speed	3600 rpm
Materials:	cast iron, nodular cast iron, bronze, stainless steel, carbon steel, 13% Cr-steel



COMBI WELL

vertical pump with dry motor for paint/solvent degreasing spray units

Max. capacity	300 m ³ /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

Flexible Impeller pumps



F-19 12/24V DC

self-priming extra heavy duty bronze pumps

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

Internal Gear pumps, self-priming



TOPGEAR TG L

for low viscosity liquids

Max. capacity	8 m ³ /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

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

Rotary Lobe pumps



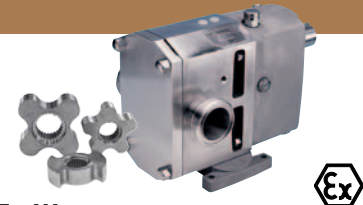
TopLOBEPLUS
hygienic tri-lobe rotors

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: stainless steel (316L)



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



TopWING
high hygienic bi-wing & multilobe rotors

Max. capacity 156 m³/h (687 GPM)
Max. pressure 15 bar (218 psi)
Max. temp 150 °C (300 °F)
Max. viscosity 80 000 mPas / cP
Materials: stainless steel (316L), duplex

FIP & FB

self-priming pumps, industry / hygienic stainless steel and bronze versions

Max. capacity 37.5 m³/h (165 GPM)
Max. pressure 4 bar (58 psi)
Max. temp 55 °C (130 °F)
Materials: bronze, stainless steel, polished stainless steel

Air Operated Double Diaphragm pumps



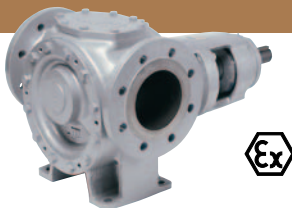
TopAIR
self-priming multipurpose pump with peripheral flow

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



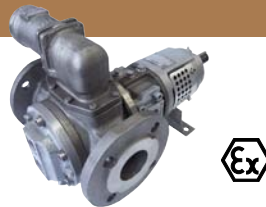
TopFILO
self-priming multipurpose pump with central flow

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



TopGEAR TG G
for general purpose heavy duty

Max. capacity 250 m³/h (1100 GPM)
Max. pressure 16 bar (230 psi)
Max. temp 300 °C (570 °F)
Max. viscosity 80 000 mPas / cP
Materials: cast iron



TopGEAR TG H
for high demanding heavy duty

Max. capacity 130 m³/h (570 GPM)
Max. pressure 16 bar (230 psi)
Max. temp 300 °C (570 °F)
Max. viscosity 80 000 mPas / cP
Materials: stainless steel, cast steel, ductile iron



TopGEAR MAG
seal-less, with magnetic drive

Max. capacity 80 m³/h (350 GPM)
Max. pressure 16 bar (230 psi)
Max. temp 250 °C (480 °F)
Max. viscosity 10 000 mPas / cP
Materials: cast iron, stainless steel

TopFilter – Filters and strainers



TopFILTER TFOV

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



TopFILTER TFOVM

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



TopFILTER TFOV

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



CENTRIFUGAL PUMPS

SPX FLOW TECHNOLOGY ASSEN B.V.

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P.O. Box 9, 9400 AA Assen, THE NETHERLANDS
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F: +31 (0)592 37 67 60
E: johnson-pump.nl.support@spx.com

**FLEXIBLE IMPELLER PUMPS, ROTARY
LOBE PUMPS**

SPX FLOW TECHNOLOGY SWEDEN AB

Nastagatan 19, P.O. Box 1436
SE-701 14 Örebro, SWEDEN
P: +46 (0)19 21 83 00
F: +46 (0)19 27 23 72
E: johnson-pump.se.support@spx.com

**INTERNAL GEAR PUMPS, AODD PUMPS,
FILTERS**

SPX FLOW TECHNOLOGY BELGIUM N.V.

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BE-9420 Erpe-Mere, BELGIUM
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F: +32 (0)53 60 27 01
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**COMPONENTS, CENTRIFUGAL PUMPS,
INTERNAL GEAR PUMPS**

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

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