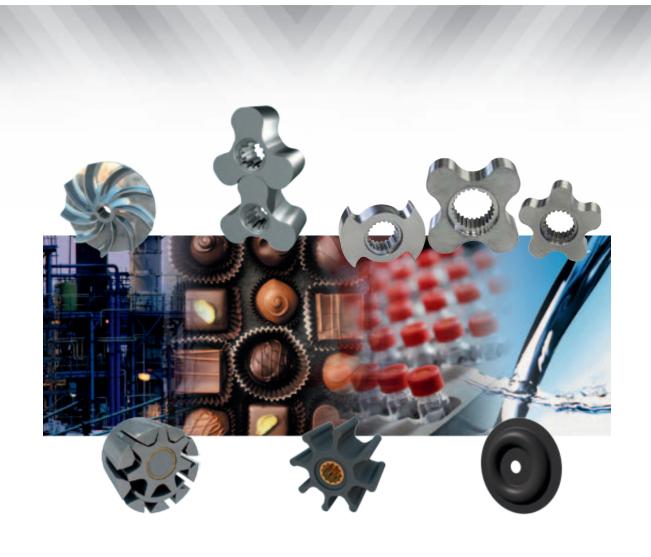


Johnson Pump brand

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. The company's highly-specialized, engineered products and technologies serve customers in three primary strategic growth markets: infrastructure, process solutions and diagnostic systems. Many of SPX's innovative solutions are playing a role in helping to meet rising global demand; particularly in emerging markets for electricity, processed foods & beverages and vehicle services. The company's products include thermal heat transfer equipment for power plants; power transformers for utility companies; process equipment for the food & beverage industry; and diagnostic tools and equipment for the vehicle service industry. For more information, please visit http://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
- FranceGermany
- 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 selfpriming 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



utility or general purpose pump according to

Materials: cast iron, nodular cast iron, bronze

1500 m³/h (6600GPM)

100 m (328 ft)

10 bar (145 psi)

200°C (392°F)

3600 rpm



СомвіСнем

heavy duty chemical pump according to ISO 5199 and EN 22858

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) 3600 rpm Max. speed Materials: cast iron, nodular cast iron, bronze, stainless steel

Self-priming pumps

EN 733

Max. capacity

Max. pressure Max. temp

Max. head

Max. speed









COMBIPRIME H & V

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

Max. capacity	500 m ³ /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	3600 rpm
Materials:	cast iron bronze

FREFLOW

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	3600 rpm
Materials:	cast iron, bronze, stainless stee

Magnetic Drive pumps









СомвіМас

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

550 m³/h (2420 GPM) Max. capacity Max. head 160 m (525 ft) 16 bar (232 psi) Max. pressure Max. temp 300°C (572°F) Max. speed 3600 rpm Materials: cast iron, nodular cast iron, stainless steel, duplex, Alloy 20, Hastelloy C

СомвіМа

heavy duty seal-less close-coupled pump according to ISO 5199 and EN 22858 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 3600 rpm Materials: cast iron, nodular cast iron, stainless steel, duplex, Alloy 20, Hastelloy C







СомвіРко

heavy duty process pump according to API610, API682 and API685

Max. capacity 350 m³/h (1540 GPM) 160 m (525 ft) Max. head 35 bar (508 psi) Max. pressure Max. temp 350°C (662°F) 3600 rpm Max. speed Materials: carbon steel, 13% Cr-steel, stainless steel (316)

Monobloc pumps





СомвіВьос

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

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

Multistage pumps



KGE

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



MCH & MCV

horizontal & vertical

Max. capacity 100 m³/h (440 GPM) Max. head 340 m (1120 ft) 40 bar (580 psi) Max. pressure Max. temp 150°C (302°F) [MCH] 120°C (248°F) [MCV]

3600 rpm Max. speed Materials: cast iron, bronze



MCHZ

horizontal, self-priming

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



MDR

Close-coupled seal-less pump

30 m³/h (130 GPM) Max. capacity Max. head 24 m (78 ft) Max. pressure 3 bar (43 psi) Max. temp 100°C (212°F) Max. speed 2800 rpm PP, PVDF Materials:



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



close-coupled circulation pump on extended

shaft motor Max. capacity 500 m³/h (2200 GPM) Max. head 35 m (115 ft) 10 bar (145 psi) Max. pressure Max. temp 140°C (284°F) Max. speed 1800 rpm Materials: cast iron

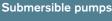




COMBIFLEX, -UNIVERSAL, -BLOC

variable position suction bend, hydraulics according to EN733

Max. capacity 1500 m³/h (6600 GPM) Max. head 140 m (459 ft) 10 bar (145 psi) Max. pressure Max. temp 200°C (392°F) 3600 rpm Max. speed Materials: cast iron, bronze





COMBISUMP

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

Max. capacity 1500 m³/h (6600 GPM) Max. head 160 m (525 ft) 16 bar (232 psi) Max. pressure [35 bar (508 psi) API610]

160°C (320°F) Max. temp 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) 3000 rpm Max. speed 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 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

Internal Gear pumps, self-priming







TOPGEAR TG L for low viscosity liquids

Max. capacity8 m³/h (35 GPM)Max. pressure30 bar (435 psi)Max. temp250 °C (480 °F)Max. viscosity60 000 mPas / cPMaterials: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 homogeny 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

124 m³/h (547 GPM) Max. capacity Max. pressure 10 bar (145 psi) 100°C (212°F) Max. temp Max. viscosity 100000 mPas/cP stainless steel (316L) Materials:



TOPLOBE

hygienic tri-lobe rotors

125 m³/h (550 GPM) Max. capacity Max. pressure 22 bar (319 psi) Max. temp 70°C (158°F) Max. viscosity 100000 mPas/cP stainless steel (316L), duplex Materials:



high hygienic bi-wing & multilobe rotors

156 m³/h (687 GPM) Max. capacity 15 bar (218 psi) Max. pressure 150°C (300°F) Max. temp 80000 mPas/cP Max. viscosity Materials: stainless steel (316L), duplex

Air Operated Double Diaphragm pumps



FIP & FB

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

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

bronze, stainless steel, polished stainless steel



TOPAIR

self-priming multipurpose pump with peripheral flow

48 m³/h (211 GPM) Max. capacity Max. pressure 7 bar (102 psi) 120°C (248°F) Max. temp Max. viscosity 10000 mPas/cP PP, aluminium, cast iron, stainless Materials: steel, PTFE, PVDF, PVC



self-priming multipurpose pump with central flow

Max. capacity 8 m^{3/}h (36 GPM) Max. pressure 7 bar (102 psi) Max. temp 85°C (185°F) 6000 mPas/cP Max. viscosity Materials: PP, aluminium, stainless steel



TOPGEAR TG G

for general purpose heavy duty

Max. capacity 250 m³/h (1100 GPM) 16 bar (230 psi) Max. pressure Max. temp 300°C (570°F) Max. viscosity 80000 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) 300°C (570°F) Max. temp 80000 mPas/cP Max. viscosity Materials: stainless steel, cast steel, ductile



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 10000 mPas/cP

Materials: cast iron, stainless steel

TopFilter - Filters and strainers







TOPFILTER TFOV

Single filter 20-150 mm (3/4"-6") Pipe sizes Max. pressure 50 bar (725 psi) Connections

Threaded: BSP, NPT Flange: BS10, BS4504, ANSI, DIN 200°C (392°F) Max. temp Materials: cast iron, cast steel, gunmetal, stainless steel



TOPFILTER TFOVM

Single, multibasket filter

200-250 mm (8"-10") Pipe sizes Max. pressure 13.8 bar (200 psi) Connections

Threaded: BSP, NPT Flange: BS10, BS4504, ANSI, DIN 200°C (392°F) Max. temp Materials: cast iron, cast steel, gunmetal, stainless steel



TOPFILTER TFOW

Dual filter Pipe sizes 20-200 mm (3/4"-8") Max. pressure 50 bar (725 psi) Connections

Threaded: BSP, NPT Flange: BS10, BS4504, ANSI, DIN 200°C (392°F) Max. temp Materials: cast iron, cast steel, gunmetal, stainless steel



CENTRIFUGAL PUMPS

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P.O. Box 9, 9400 AA Assen, THE NETHERLANDS

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E: johnson-pump.nl.support@spx.com

FLEXIBLE IMPELLER PUMPS, ROTARY LOBE PUMPS

SPX FLOW TECHNOLOGY SWEDEN AB

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INTERNAL GEAR PUMPS, AODD PUMPS, FILTERS

SPX FLOW TECHNOLOGY BELGIUM N.V.

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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.

SPX Corporation 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.

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