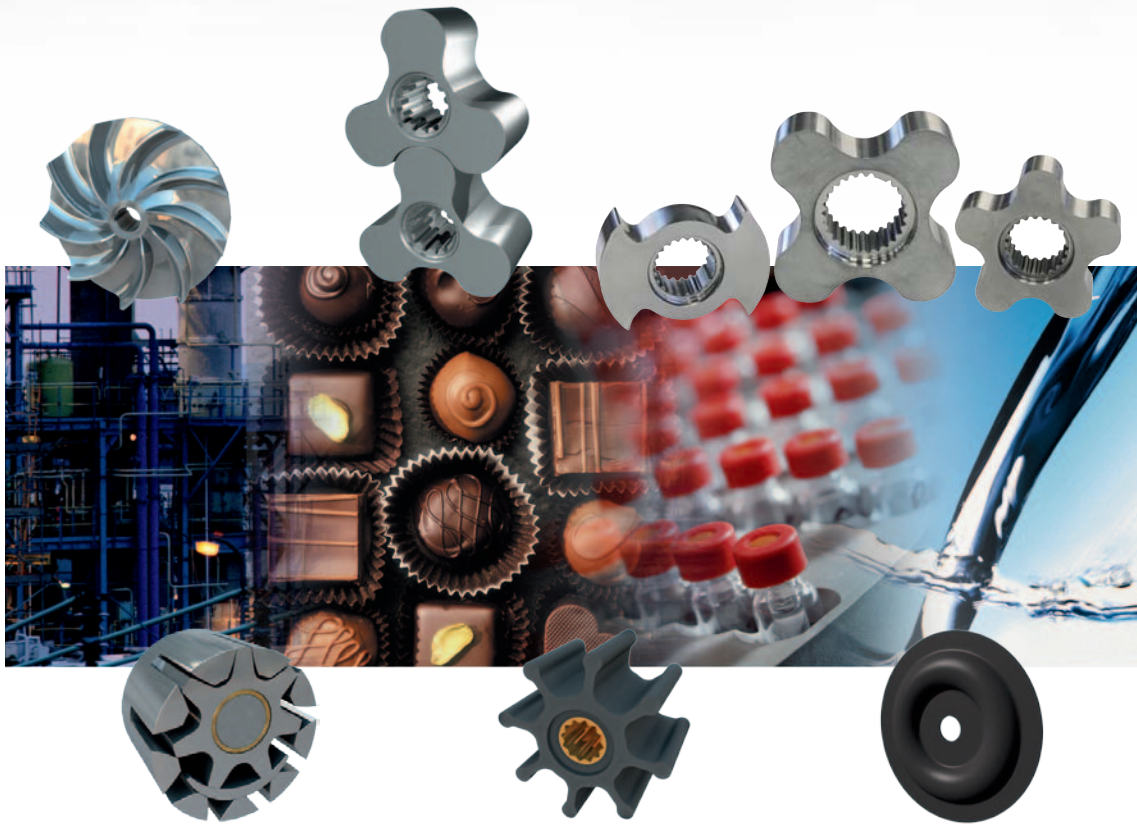


## Johnson Pump brand

INDUSTRIAL PUMP PRODUCT OVERVIEW



# Welcome to a World of Pumps

For more than 75 years SPX FLOW 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 FLOW 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 FLOW is therefore much more than a Johnson Pump brand manufacturer – We are your solution provider!

Based in Charlotte, North Carolina, SPX FLOW (NYSE: FLOW) is a multi-industry manufacturing company with operations in more than 35 markets worldwide. SPX FLOW's innovative, world-class products and highly-engineered solutions are helping to meet the needs of a constantly developing world and growing global population. You'll find our innovative solutions in everything from dairy plants and power plants to oil and gas pipelines, and the power grid. SPX FLOW is really everywhere you look.

We help our customers around the globe expand and enhance their food and beverage, power and energy and industrial production processes. For more information, please visit [www.spxflow.com](http://www.spxflow.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 FLOW'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 ISO9001.



### WORLDWIDE DISTRIBUTION

With our worldwide network of SPX FLOW 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](http://www.johnson-pump.com), [www.spxflow.com](http://www.spxflow.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 FLOW 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 FLOW 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 FLOW 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

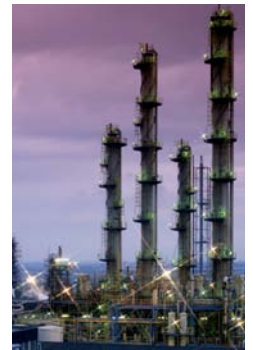


### HORTICULTURE



### 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.

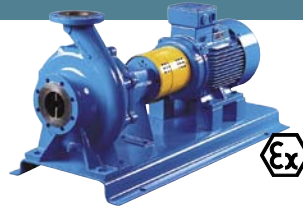
Johnson Pump brand's Combi system is a modular programme of centrifugal pumps with a high degree of interchangeability of parts between the different pump constructions.

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 FLOW 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 <sup>3</sup> /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 <sup>3</sup> /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



### COMBI-PRIME H & V

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

Max. capacity	500 m <sup>3</sup> /h (2200 GPM) [H] 800 m <sup>3</sup> /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



### FRE-FLOW

horizontal, handles gas and particle content

Max. capacity	350 m <sup>3</sup> /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 <sup>3</sup> /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-MAG-BLOC

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

Max. capacity	280 m <sup>3</sup> /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 EN 733)

Max. capacity	400 m <sup>3</sup> /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



## Monobloc pumps



### COMBIPro

heavy duty process pump according to API610, API682 and API685

Max. capacity	350 m <sup>3</sup> /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 m <sup>3</sup> /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



### COMBI DIRT

horizontal or vertical pump utilizing vortex principle, handles particles and gaseous content

Max. capacity	420 m <sup>3</sup> /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 m <sup>3</sup> /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 m <sup>3</sup> /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 <sup>3</sup> /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



### MDR

Close-coupled seal-less pump

Max. capacity	30 m <sup>3</sup> /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



### COMBI LINE

close-coupled circulation pump on extended shaft motor

Max. capacity	500 m <sup>3</sup> /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 <sup>3</sup> /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 <sup>3</sup> /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 <sup>3</sup> /h (6600 GPM)
Max. head	160 m (525 ft)
Max. pressure	16 bar (232 psi) [35 bar (508 psi) API610]
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 <sup>3</sup> /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

## 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

#### 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. capacity	8 m <sup>3</sup> /h (35 GPM)
Max. pressure	25 bar (363 psi)
Max. temp	250 °C (480 °F)
Max. viscosity	60 000 mPas / cP
Materials:	nodular cast iron

## Rotary Lobe pumps



### TOPLOBEPLUS

hygienic tri-lobe rotors

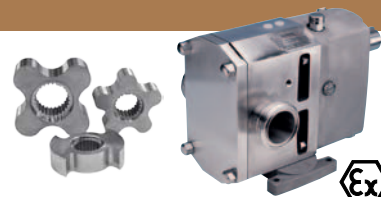
Max. capacity	124 m <sup>3</sup> /h (547 GPM)
Max. pressure	10 bar (145 psi)
Max. temp	100 °C (212 °F)
Max. viscosity	100 000 mPas / cP
Materials:	stainless steel (316L)



### TOPLOBE

hygienic tri-lobe rotors

Max. capacity	125 m <sup>3</sup> /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 m <sup>3</sup> /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 m <sup>3</sup> /h (165 GPM)
Max. pressure	4 bar (58 psi)
Max. temp	55 °C (130 °F)
Materials:	bronze, stainless steel, polished stainless steel



### TOPAIR

self-priming multipurpose pump with peripheral flow

Max. capacity	48 m <sup>3</sup> /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 m <sup>3</sup> /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 m <sup>3</sup> /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 m <sup>3</sup> /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 m <sup>3</sup> /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

# SPXFLOW

## **CENTRIFUGAL PUMPS**

### **SPX FLOW TECHNOLOGY ASSEN B.V.**

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

## **COMPONENTS, CENTRIFUGAL PUMPS, INTERNAL GEAR PUMPS**

### **SPX FLOW TECHNOLOGY (INDIA) PRIVATE LIMITED**

Survey No. 275, Odhav Road, Odhav  
Ahmedabad-382415, INDIA  
P: +91 (0)79-22870311, 22873005  
F: +91 (0)79-22870593, 22872522  
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## **FLEXIBLE IMPELLER PUMPS, ROTARY LOBE PUMPS**

### **SPX FLOW TECHNOLOGY SWEDEN AB**

Nastagatan 19, P.O. Box 1436  
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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit [www.johnson-pump.com](http://www.johnson-pump.com) and [www.spxflow.com](http://www.spxflow.com).

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