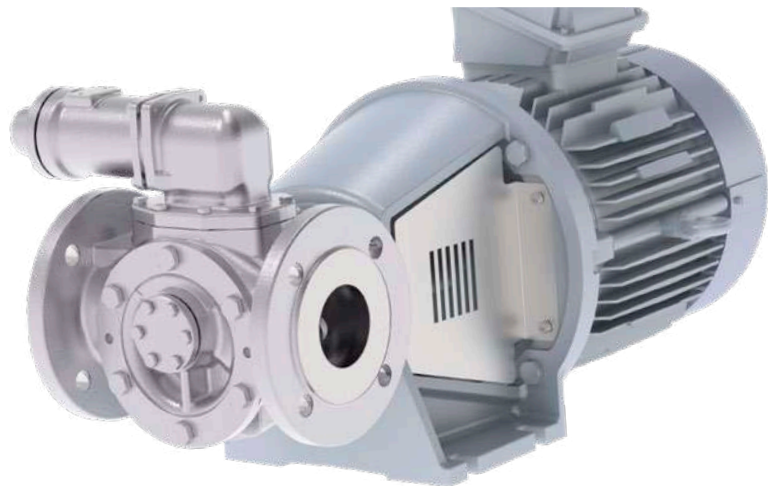


# Johnson Pump

INDUSTRIAL PUMPS



# Keeping You Pumping

For more than 75 years, we have been designing and manufacturing industrial pumps. Our experience combined with our wide products portfolio enables us to provide you a pump you can rely on.

Buying a pump from us is just not a one-off transaction - the pump has to keep running for a long time. Therefore, providing our customers service and maintenance throughout a pump's service life is important.

We don't aim to be a pump manufacturer, but **your solution provider.**

## It's All about Finding Your Solution

Your process is unique. It's that something extra that places you ahead of all the rest. If you require a non-standard solution, we will collaborate with you to meet your special requirements. With our wide range of Johnson Pump standard products to build on we can customize a solution with little additional design work needed to keep you ahead.

From R&D to sales and support, we'll work with you on an affordable solution to meet your needs. In addition to pumps, we also have a variety of flow technologies including valves, mixer, heat exchangers and entire processing systems.

## Johnson Pump 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

# Product Applications

## ABRASION RESISTANT COATINGS

Lime slurries, paper fillers, dirty sump water and the like can unnecessarily wear out a pump. Surface treatment like tungsten carbide HVOF coating on pump casing parts and rotors 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

On circulation pumps for a hospital heating system we combined a modified pump casing with an externally mounted heat exchanger.



## ULTRA PURE WATER TREATMENT PLANT

We 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.



## Pharmaceutical



## Food and Beverage



## Horticulture



## Chemical



## General Industry

## Petrochemical

## Building Water Services



## Waste Water Treatment



## Pulp & Paper



## Shipbuilding

# 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. We 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 you to be served in an optimal way.

**We supply you with a full range of documentation for our pumps:**

ATEX

Material traceability and 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	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



### COMBICHEM

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

## Thermal Oil/Hot Water Pumps



### COMBITHERM

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

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

## Self-Priming Pumps



### COMBIPRIME 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



### FREFLOW

horizontal, handles gas and particle content

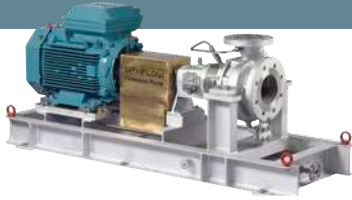
Max. capacity	350 m <sup>3</sup> /h (1540 GPM)
Max. head	80 m (262 ft)
Max. pressure	9 bar (131 psi)
Max. temp	95°C (203°F)
Max. speed	3600 rpm
Materials	cast iron, bronze, stainless steel



### 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



**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)



**MonoBloc Pumps**



**COMBIBloc**

compact close-coupled pump, standard IEC flange motor

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

**Vertical Pumps**



**COMBIFLEX, -UNIVERSAL, -BLOC**

variable position suction bend, hydraulics according to EN733

Max. capacity 1500 m<sup>3</sup>/h (6600 GPM)  
 Max. head 160 m (525 ft)  
 Max. pressure 25 bar (363 psi)  
 Max. temp 200 °C (392 °F)  
 Max. speed 3600 rpm  
 Materials cast iron, nodular cast iron, bronze, stainless steel

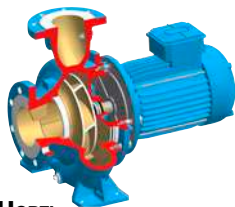
**Submersible Pumps**



**COMBISUMP**

vertical pump with dry motor EN733, EN22858 and API610

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



**COMBIBlocHORTI**

compact close-coupled pump, impeller mounted directly on extended motor shaft

Max. capacity 700 m<sup>3</sup>/h (3082 GPM)  
 Max. head 38 m (125 ft)  
 Max. pressure 10 bar (145 psi)  
 Max. temp 140 °C (284 °F)  
 Max. speed 3600 rpm  
 Materials cast iron, bronze, stainless steel

**InLine Pumps**



**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

**MultiStage Pumps**



**MCH**

horizontal configuration

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)  
 Max. speed 3600 rpm  
 Materials cast iron, bronze



**MCV**

vertical configuration

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, 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

# 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** are used in a wide range of applications pumping thin liquids like fuels and oils up to high viscous media like polymers, bitumen and chocolate.

We supply you with a full range of documentation depending on need and local regulations

ATEX

3A

EHEDG

FDA, USP VI

Material Traceability and Certification 2.1, 2.2 and 3.1

QHP Tests

Vibration Tests

Noise Level Tests

## Internal Gear Pumps, Close-Coupled



**TOPGEAR L**  
for low viscous liquids

Max. capacity  
Max. pressure  
Max. temp  
Max. viscosity  
Materials



8m<sup>3</sup>/h (35 GPM)  
25 bar (3635 psi)  
250°C (480°F)  
60 000 mPas / cP  
nodular cast iron



**TOPGEAR BLOC**  
for low and medium viscous liquids

Max. capacity  
Max. pressure  
Max. temp  
Max. viscosity  
Materials

50m<sup>3</sup>/h (220 GPM)  
16 bar (230 psi)  
180°C (356°F)  
7 500 mPas / cP  
cast iron, stainless steel

## Rotary Lobe Pumps



**TOPLOBEPLUS**  
hygienic tri-lobe rotors

Max. capacity 82 m<sup>3</sup>/h (316 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



## 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



**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



## Internal Gear Pumps, Long-Coupled



**TOPGEAR G**  
for general purpose 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 cast iron  
*\*Max. 260 m<sup>3</sup>/h (1145 GPM) with SRT on request*



**TOPGEAR 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

# SPXFLOW®

Based in Charlotte, N.C., SPX FLOW, Inc. (NYSE: FLOW) improves the world through innovative and sustainable solutions. The company's product offering is concentrated in process technologies that perform mixing, blending, fluid handling, separation, thermal heat transfer and other activities that are integral to processes performed across a wide variety of nutrition, health and industrial markets. SPX FLOW had approximately \$1.4 billion in 2020 annual revenues and has operations in more than 30 countries and sales in more than 140 countries. To learn more about SPX FLOW, please visit [www.spxflow.com](http://www.spxflow.com).

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