

Tar / Asphalt / Bitumen

Build the Road
with Johnson Pump



If one believes the proverb, all roads lead to Rome, then the quality of the journey depends on the quality of the road.

Users ask for increasingly better roads, the coatings have to be quieter, safer for the users, ensure better drainage and be more resistant.

At all stages of the process, pumps are used to transfer the bitumen, the emulsions and all the other liquid elements making up their composition.

SPX FLOW, Inc., with its Johnson Pump brand, maintains its position in the bitumen market through adaptation of its pump range to meet the ever changing needs of the industry.

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

Build the road with Johnson Pump

SPX FLOW offers solutions for maintaining the pump at the right temperature: modular bolt-on heating heating jackets for steam and thermal oil, or by an integrated electric device, which has found high levels of acceptability with the users and decision makers in this sector.

30 years experience in this field has given us the expertise to understand customer needs and adapt our technical solution to the market.



TopGear TGL

Circulation pump for Thermal Oil

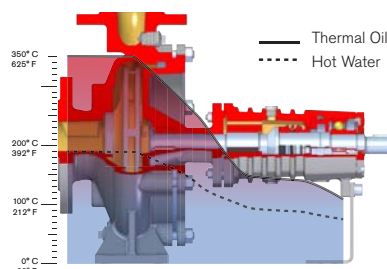
- For lower flow thermal fluid circulation (Max flow 8 m³ / hr (35 gpm))
- Good self-priming capabilities
- Vertical port design means pump is always wetted once primed
- Uncomplicated design
- Temperatures up to 250°C (482°F)



CombiTherm

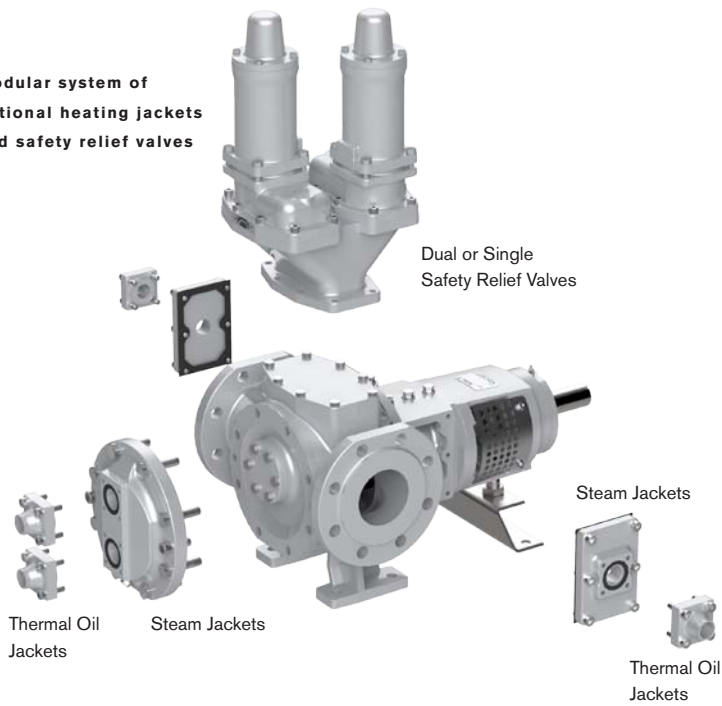
Circulation pump for Thermal Oil

- For higher flow thermal fluid circulation (Max flow 400 m³ / hr (1760 gpm))
- Developed especially for thermal oil (DIN 4754) and hot water applications EN 12953-6 (DIN 4752)
- Air cooled, designed to require no external cooling
- Dimensionally interchangeable with most European thermal oil pumps of a similar size



Typical temperature variations along a CombiTherm, dropping from a maximum of 350°C (625°F) at the impeller to a manageable 150 – 140°C (284 – 302°F) at the seal chamber and 110°C (230°F) at the bearings.

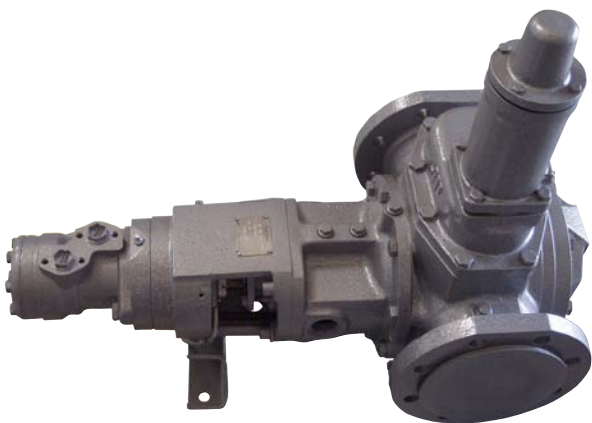
Modular system of optional heating jackets and safety relief valves



TopGear TG G & TGH

Internal Gear pump for Bitumen and Emulsion application

- Modular design
- Materials in cast iron, ductile cast iron and cast steel
- Bolt on heating jackets – nodular cast iron for better safety
 - Threaded steam valve connections
 - Bolt on weld- end Thermal oil connections for better safety – conforms to DIN 4754 Thermal oil standard
- Electrical heating jackets
- Jacketed relief valve with steam or bolted thermal oil connections for most sizes
- Multiple seal options, packed gland, single, cartridge seal and double cartridge
- Max flow 130 m³ / hr (570 gpm)
- Temperatures up to 300°C (572°F)



Hydraulic drive for truck mounting and magnetic sensors with 64 pulses per revolution for accurate control

Typical product applications

WATER PROOFING

- Pump construction designed to transfer minerals contained in the bitumen
- High pressure and temperature acceptable: 16 bar and 300°C (230 psi and 572°F)



ROADSPRAYER OR SPREADER

- Constant and non pulsating flow allowing coating at a constant angle
- Large range of speeds
- Electric heating of the pump (optional)
- Additional pump for heating fluid option
- Accessory pump for heating fluid



EMULSION PLANT

- Complete range of pumps meeting all needs of an emulsion plant: amines, emulsion, bitumen, fluxant, acidic water, ...
- Care of the emulsion's texture, no product degradation
- Repeatability of the dosing



COATED ASPHALT PLANT

- Pumps offering a high degree of accuracy in proportioning
- Large range of flow acceptable
- Electric heating of the pump (optional)



BINDER STOCK

- Highly reliable robust pumps
- Low maintenance is required
- Heating of the pump by 2 separate jackets, each thermostatically controlled for optimum result



SERVICE

- Uncomplicated design
- Back-pull out design for ease of maintenance
- Strong shafts and maximized bearings for longer life



Bitumen & Asphalt

SPXFLOW

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Your local contact:

www.spxflow.com/en/johnson-pump/where-to-buy/

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JP_610_GB Version: 03/2015 Issued: 10/2015

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