



## Press Release

March 2009

# Where ideas meet industry

***SPX Process Equipment, Johnson Pump Brand, will be presenting innovative ideas and solutions at Anuga FoodTec in Cologne from 10-13 March 2009. Johnson Pump Brand is sharing the SPX stand, C10/D19 in Hall 4.1, with fellow brands APV, Bran + Luebbe, Lightnin, Waukesha Cherry Burrell and WCB-Flow Products.***

For more than 75 years Johnson Pump Brand products 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.

### **TopWing – Ultra-Hygienic Rotary Lobe Pumps**

To meet the increasing demands in validation, certification and operation, SPX Process Equipment is introducing an upgraded Johnson Pump branded TopWing rotary lobe pump for ultra-hygienic duties.

TopWing rotary lobe pumps have been designed to meet the needs and demands of GMP (good manufacturing practice) in “high clean” industries, as confirmed by accreditations including 3-A, EHEDG (European Hygienic Engineering and Design Group), FDA (Food and Drug Administration) and ASME BPE (International Standard for Bioprocessing Equipment). The pumps’ heavy-duty and validated hygienic design in combination with an extensive documentation package is a perfect match for the demanding needs in Ultra-Hygienic applications within food, pharmaceuticals, bio-processing and personal care.

A validation and certification package can be included and depending on configuration and need the following are available:

- Flow and pressure tests
- Cleanability certificates such as 3-A and EHEDG
- Surface roughness conformity following the standards within ASME BPE 2005
- Conformity on passivation or electro-polishing
- Material certificates such as
  - 3.1 for wetted stainless steel and Duplex parts
  - 3-A, USP class VI, FDA and AFO certificates
  - 2.2 for non wetted stainless steel parts.
- Welding, welding additives and welding gas conformities and certificates
- ATEX certificates
- Quality (ISO 9001) and environmental (ISO 14000) certificates



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The TopWing range consists of eight pumps with connections from 25 to 100 mm, providing flow rates up to 156 m<sup>3</sup>/h.

The design also means fewer pockets where bacteria can hide, and this, combined with an all stainless steel construction, means that TopWing pumps are easy to clean both by CIP (clean-in-place) and SIP (steam-in-place).

With less agitation and shear, TopWing can handle delicate liquids containing both soft and hard particles, without product degradation as well as being able to handle liquids of varying viscosities and temperatures.

Other features and benefits include easy maintenance, as the shaft seal can be changed without the need to disassemble the rotor case, and a robust bearing arrangement with preloaded taper roller bearings without shimming.

The pumps are designed for trouble-free operation thanks to their heavy-duty construction and features such as: rotors, shaft and retainer made from duplex stainless steel for stronger assembly, less shaft deflection, less wear and mechanical seal assembled inside the rotor case for better seal lubrication.

**A range of options are available to enable the pumps to suit specific application requirements.**

A Bi-wing rotor promotes smooth flow and gentler treatment of shear sensitive liquids and soft particles.

Multi-lobe rotors - a new option introduced – promote a better NPSHr, lower noise level and fewer pulsations pumping low viscous liquids.

All rotors can be supplied with different clearance classes depending on operation and need.

- Standard clearances for standard operational duties with minimized backslip for working pressures up to 15 bar at 150° C.
- Enlarged clearance for higher pressures or temperatures.

Other options include choice of seals such as single mechanical, quenched, double flushed; a variety of O-ring materials; safety relief valves; spring loaded and air loaded with air lift; rectangular inlets for better NPSH and possibilities to pump thicker liquids and also preheating/cooling devices.

*Further details are available from:*

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