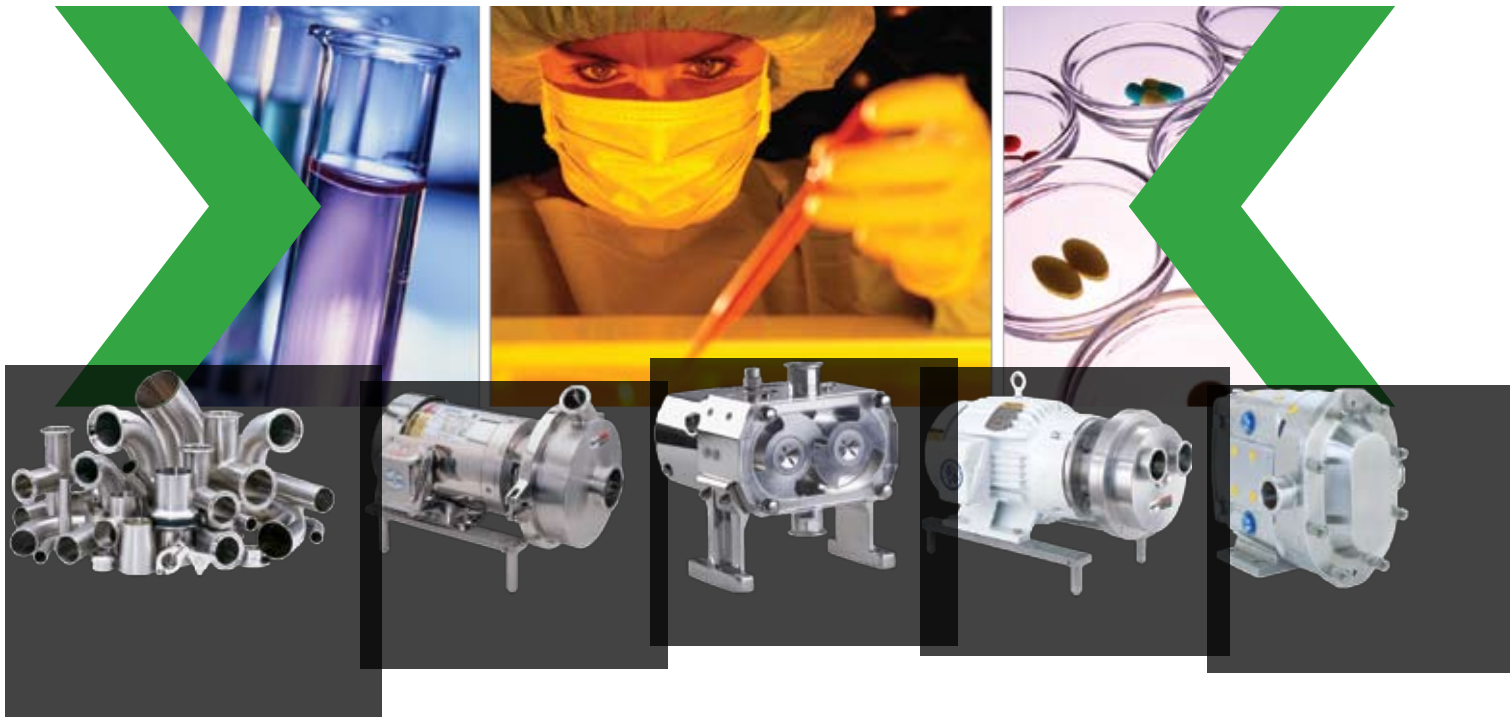




## WCB-Flow Products

Specialty Equipment for  
the Pharmaceutical Industry



motralec

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX  
Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48  
Demande de prix / e-mail : [service-commercial@motralec.com](mailto:service-commercial@motralec.com)  
[www.motralec.com](http://www.motralec.com)

SPX®

## Pumps Designed Specifically for Pharmaceutical Needs

- \* EHEDG Certified
- \* Pumps Meet BPE Standards
- \* Detailed Documentation Packages
- \* Full Traceability of components
- \* Enhanced Surface Finishes
  - Mechanical polish to 15 Ra
  - Electropolish
- \* Specialty Materials and Processes
  - 316L and Duplex stainless steel wetted parts
  - “Machined from bar stock” centrifugal pumps
  - USP Class VI animal-free elastomers available
  - Silicon Carbide standard seals



## Centrifugal Pumps for the Pharmaceutical Industry

SPX's all-machined centrifugal pumps provide the highest quality stainless components for demanding pure water, CIP and other process applications.

### S-200 Centrifugal Pump – *Designed Specifically for Pharmaceutical*

- \* Machined from bar stock
  - Lower ferrite content to reduce rouging
  - Improved surface finish
- \* On-line Material Test Reports
- \* Robust JM motor
  - Larger shaft and bearings
  - Eliminates impeller shaft
- \* 20Ra standard surface finish (15 Ra available)
- \* Optional casing drain minimizes dead leg



### LR Liquid Ring Pumps– *Ideal for CIP return*

- \* Vacuum capability removes more cleaning fluids
- \* Robust JM motor
  - Larger shaft and bearings
  - Eliminates impeller shaft
- \* Machined from bar stock
  - Lower ferrite content to reduce rouging
  - Improved surface finish
  - 20Ra standard surface finish (15Ra available)



## **P**ositive Pumps for the Pharmaceutical Industry

SPX offers the industry's widest selection of pharmaceutical positive pumps. This allows customers to select the design most appropriate for their particular application.

### **Johnson Top Wing** – *For Ultra-Hygienic Applications*

- \* Bi-Wing rotors
- \* Fully swept interior surfaces
- \* Unique duplex stainless steel shafts and rotors minimize thermal expansion
- \* Over-sized shafts in duplex material decrease deflection
- \* Large diameter bearings extend service life
- \* All stainless steel construction
- \* Front-loading mechanical seals
- \* One-piece body and shaft housing
- \* Standard 20Ra internal surfaces
- \* Flat, recess-less cover
- \* Fully drainable seals and surface areas
- \* Extended lubrication intervals



### **Waukesha Universal II Biopharm** – *For Premium Efficiency*

- \* ECP rotor design produces highest efficiency
- \* Gentlest handling of shear sensitive materials
- \* Waukesha's most popular pump
- \* Optional stainless steel gear case



### **Waukesha Universal Lobe** – *For Economy*

- \* Tri-Lobe rotors
- \* Reduced pulsation
- \* Competitive pricing
- \* Simple assembly
- \* Ideal for handling particulates



## BPE Fittings for the Pharmaceutical Industry

- \* On-line Material Test Reports
- \* Extensive inventory
- \* Comply with all BPE standards



## Tubing

- \* Rath tubing in 316L
- \* Polishes to 10 Ra
- \* Electropolish
- \* Full documentation



## Special Fabrications

- \* Full AutoCAD support
- \* Fast turnaround
- \* Experienced staff



**SPX**<sup>®</sup>

PROCESS EQUIPMENT

Your local contact:



**motralec**

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX  
Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48  
Demande de prix / e-mail : [service-commercial@motralec.com](mailto:service-commercial@motralec.com)  
[www.motralec.com](http://www.motralec.com)