Chemical Injection for Oil & Gas
SPX FLOW, Inc. (NYSE:FLOW) is a leading manufacturer of innovative flow technologies, many of which help define the industry standard in the market segments they serve. From its headquarters in Charlotte, North Carolina, it operates a sales and support network, centers of manufacturing excellence, and advanced engineering facilities, throughout the world. Its cutting-edge flow components and process equipment portfolio includes a wide range of pumps, valves, heat exchangers, mixers, homogenizers, separators, filters, UHT, and drying technology that meet many application needs. Its expert engineering capability also makes it a premium supplier of customized solutions and complete, turn-key packages to meet the most exacting of installation demands.

Its designs and engineered solutions help customers drive efficiency and productivity, increase quality and reliability, and meet the latest regulatory demands. In-depth understanding of applications and processes, state-of-the-art Innovation Centers, and advanced pilot/testing technology further assist in optimizing processes and reducing timescales to reliably meet production targets.

To learn more about SPX FLOW, please visit www.spxflow.com.

For more than 80 years, SPX FLOW’s Bran+Luebbe brand has been providing customers with high quality metering, processing and analysing equipment.

As part of the global SPX FLOW, Inc., we are one of the world’s most reputable manufacturers of metering and process pumps, process systems as well as analyzing technologies. Our engineers have comprehensive process and applications knowledge across a wide range of markets. This has resulted in product innovations and developments which harness the latest technology whilst meeting the highest quality standards.

Chemical Injection Units

Within the Oil and Gas Industry, the requirements for Chemical Injection Packages are very diverse depending on the application and location, the number of chemicals and injection points and changes to production conditions and output.

Utilising our wealth of experience and expertise, bespoke Bran+Luebbe chemical injection systems are consistently designed, manufactured, tested and certified to meet the specific customer and industry needs.

Our clients include major Engineering Contractors and major End Users/Operators world-wide.

Examples of the types of packages which demonstrate the flexibility and versatility of Bran+Luebbe equipment are:

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**Basic injection pump packages**

**Mobile injection packages for remote locations**
Typical product applications

**Exploration and Drilling**
- Enhance drill cutting removal and formation protection (Drilling Fluid Additives)

**Oil & Gas Production (Primary Recovery)**
- Three Phase Separation (Oil, Water, Gas)

**Oil & Gas Production (Secondary / Tertiary Recovery)**
- Produced Water, Seawater, Gas Injection

**Transport / Storage**
- Transmission & Storage

**Terminals / Refineries**
- Refining & Processing

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**Compact Duty / Standby Pump Packages**
Similar to multi-pumphead skids, with facility of one or more additional pumps.

**Multi-pumphead packages**
Manifolded together to achieve higher flowrates

**Multi-compartment chemical storage and pumping packages**
More than one chemical / injection point

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**Chemicals / Fluids**

- Antifoam
- Biocides
- Condensates
- Corrosion Inhibitors
- Demulsifiers
- Flow Improvers
- Glycol
- Hypochlorite
- Methanol
- Oxygen Scavenging
- Polyelectrolytes
- Polymers
- Pour Point Depressants
- Scale Inhibitors
- Wax Inhibitors
Duty standby chemical injection package for offshore installation

Corrosion Inhibitor skid for onshore Gas Plant

Norsok compliant multi-pump chemical injection package for offshore platform

Multi-compartment chemical storage and injection package for offshore installation
Compact two-tier package designed to provide storage and injection of wax inhibitor and scale inhibitor, on a bunded base frame, within a very tight space constraint, on an existing platform.

Glycol and corrosion inhibitor package for onshore use at a gas storage plant. Package incorporates a double wall tank with leak detection system, IBC laydown area, injection pumps system and rain shelter.

Flocculant multi-headed pump package for offshore platform.

Chemical dosing skid for sulphate removal module on Floating Production Unit (FPU).
Chemical injection package for offshore production platform

Corrosion inhibitor package for harsh desert environment

Methanol injection package incorporating Bran+Luebbe double diaphragm, double acting pumps for offshore platform

Chemical dosing and pH control system for Polyethylene Facilities
Highly Reliable Chemical Injection Packages for Harsh Environment Offshore Production Platforms

PACKAGES SUPPLIED:
- Production Water Chemical Injection
- Water Chemical Injection
- Lo-Sal (Low Salinity) Chemical Injection for Enhanced Oil Recovery (EOR)
- H2S Scavenger Chemical Injection
- Calcium Nitrate Injection

MATERIALS USED:
- 316L / 316 ss
- 904L ss
- 6Mo
- Titanium
3D Design

Pipework neatly designed and fabricated with termination points all at one end of the package

Multi-compartment stainless steel storage tank

Bran+Luebbe double diaphragm two headed metering pumps

Complete package designed and fabricated to withstand all environmental conditions, transportation and operational loads.
Solar Powered Packages

• Compact 24V DC ExD packages
• Completely self contained including solar panels and battery back-up
• No external power supply required
• Local & remote diagnostic pump monitoring system available
• Leak free double diaphragm technology
• Typical applications:
  - Remote wellhead locations
  - (Onshore & Offshore)
  - Water treatment plants

Flow Control Valve Panels

• Flow distribution panels using self regulating injection metering valves
• Multi-injection points, each individually adjustable with either a dedicated or common flow meter
• More than one chemical can be accommodated
• Duty/standby pumps typically recommended per chemical on main package
• Panels supplied as stand-alone or incorporated onto the main injection package
• Ideal for FPSO Turret installation to limit flexibles to one per chemical
• Design provides space, weight and cost savings

The benefits of Bran+Luebbe’s package approach

• Single source - single accountability
• Purpose designed & built to specifications
• Space efficient
• Minimise on-site installation
• Fast and easy to operate and maintain
• Fully tested, proven and certified before installation
• Long term service support
• Peace of mind, dealing with a highly professional company
• Certified to ISO 9001:2008 quality management systems and OHSAS 18001:2007 health and safety systems
SPX FLOW is a leading supplier of chemical dosing pumps and systems to aid the recovery of oil and gas, both offshore and onshore.

With over 80 years’ experience in the supply, installation and maintenance of these systems, SPX FLOW offers a high level of expertise to the industry.

**BRAN+LUEBBE METERING PUMPS**

SPX FLOW can offer Bran+Luebbe brand metering pumps in a wide variety of design configurations and operating features such as:

- Standard Plunger Pumps
- Leak Free Double Diaphragm Pumps
- Double Acting Double Diaphragm Pumps
- Fixed or Variable Speed Drive
- Manual, Electric or Pneumatic Flowrate Control Options
- Horizontal and Vertical Combinations
- Simplex and Multiplex Range
- Modular Design Concept Permits Future Expansion
- High Accuracy
- High Repeatability
- Robustness and Durability
- Space Efficiency
- Low and High Pressure Capability up to 1000 Bar
Bran+Luebbe NOVAPLEX Process Pumps

• Flexible high performance double diaphragm fixed stroke length process pumps
• Technology offers leak-free operation whilst providing benefits of high reliability, operating integrity and easy maintenance
• Modular construction allowing a combination of up to seven pumpheads on a single unit
• Ideal for toxic or chemically aggressive liquids and slurries
• Exclusive use of anti-friction bearings reduces energy consumption to almost theoretical minimum giving minimised life cycle costs
• Low and high pressure capability up to 1000 bar
• Wide Operating Capacity 70 m³/hr
SPX FLOW is proud to highlight the registration of its Bran+Luebbe industry approved products and services on the Achilles First Point Assessment database.

SPX FLOW’s Bran+Luebbe Oil and Gas Department has an established system that has been providing Achilles FPAL with performance feedback for several years.

In addition to this, SPX FLOW has a completed capability profile that is available to all buyers on the Achilles FPAL website.

- Original spare parts – Simple to order by telephone, email or fax
- Service contract – Annual planned maintenance with pre-ordered parts required for service
- Field Service – On site repairs both onshore & offshore with support usually available in 1 to 3 days
- Return & repair – Complete in-house repair with test & certification as required
- Technical support – Telephone contact for technical advice, installation & start-up assistance, equipment inspection & assessment & modification of existing equipment
- Training – Maintenance, operator & repair training
- Commissioning – Installation & start-up service

For more locations please visit: http://branluebbe.com.