

NOVAPLEX Vector

PROCESS DIAPHRAGM PUMPS



For more than 80 years, Bran+Luebbe - now SPX Flow Technology – has been providing customers with high quality metering, processing and analyzing equipment. As part of the global SPX Corporation, 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 while meeting the highest quality standards.

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader with over \$5 billion in annual revenue, operations in more than 35 countries and over 15,000 employees. The company's highly-specialized, engineered products and technologies are concentrated in Flow Technology and energy infrastructure. Many of SPX's innovative solutions are playing a role in helping to meet rising global demand for electricity and processed foods and beverages, particularly in emerging markets. The company's products include food processing systems for the food and beverage industry, power transformers for utility companies, and cooling systems for power plants. For more information, please visit www.spx.com.

NOVAPLEX Vector

The Process Diaphragm Pump NOVAPLEX Vector combines a unique new gearbox design with well-proven diaphragm pump head technology and is ideally suited for applications in the oil & gas industry (onshore, offshore) as well in the chemical industry, offering a number of benefits, such as:

- Light weight
- Small footprint
- Easy maintenance due to reduced number of parts
- Less downtime
- Lower operation costs

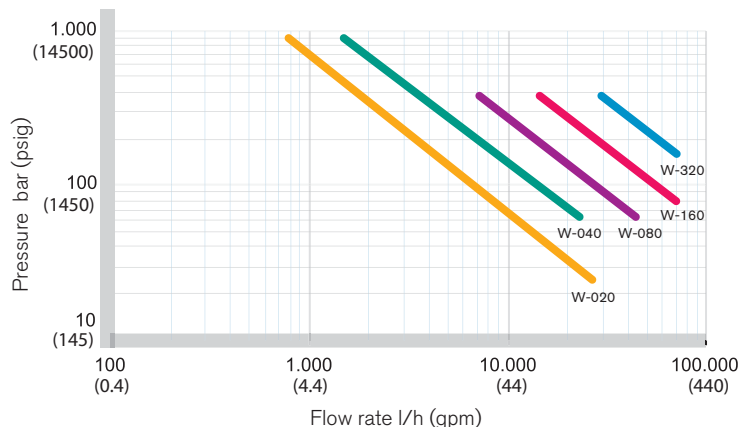
PERFORMANCE DATA

- **Volume/capacity:** 2 - 70 m³/hr (9-308 gpm)
- **Pressure:** up to 400 bar (PTFE) (5800 psig)
up to 1000 bar (Metal) (14,500 psig)
- **Fluid temperature range:** -40° C to +150° C (-40° F to 300° F)
(special solutions upon request)
- **Ambient temperature range:** -40° C to +60° C (-40° F to 140° F)
(special solutions upon request)
- **Hazardous area:** up to Zone 1 IIC T4
(Zone 22 upon request)
- **Adjustable capacity (VFD)**

ADDITIONAL FEATURES

- Diaphragm position control for maximum operating security
- Safe dry-run capabilities
- High volumetric efficiency
- Hermetically sealed by two diaphragm layers
- Diaphragm condition monitoring
- NOVALINK_CSM 2 Diagnosis interface as standard

PERFORMANCE



TYPICAL MARKETS WITH APPLICATIONS

▪ Oil & Gas

- Methanol Injection
- Polymer Injection (Enhanced Oil Recovery)
- Hydrocarbon transfer
- and many more

▪ Chemical Processing Industry

- Reactor Feed
- and many more

▪ Mining

- Autoclave Feed

FLUIDS PUMPED

- Ammonia
- Liquified CO₂
- Hydrocarbon Condensate
- Methanol, Glycol, Biocides
- LPG (Liquified Petroleum Gas)
- Propionic Acid
- Raney Nickel suspensions
- Vinyl Chloride Monomer
- Vinyl Acetate Copolymer

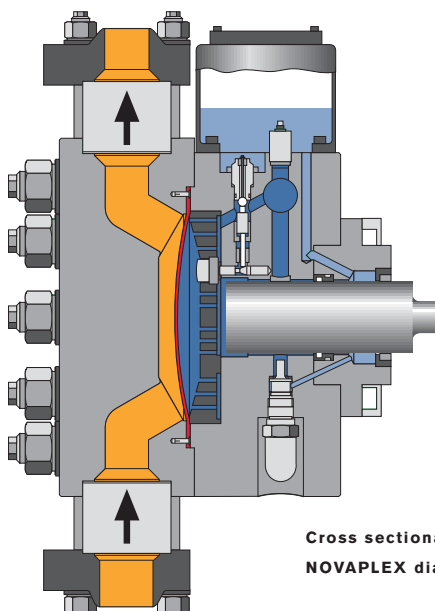


COMPACT GEAR DESIGN

- Small footprint
- Reduced weight
- Reduced maintenance effort

ESTABLISHED PUMP HEAD TECHNOLOGY

- A pressure relief valve within the hydraulic system of the pump head protects not only the pump head but also the pump gear from overload due to excessive pressure
- Increased diaphragm life compared to non-positive control systems
- Diaphragm protection even under critical operating conditions
- Dry running capabilities
- Double-diaphragm pumps with diaphragm condition monitoring offer higher operation security than single diaphragm pump heads



Cross sectional drawing of a
NOVAPLEX diaphragm pump head



NOVAPLEX Classic



NOVAPLEX Integral

Alternatively to the NOVAPLEX Vector pumps the NOVAPLEX Classic with externally mounted gear reducer, enabling an extended number of pump heads and the NOVAPLEX Integral with integrated gear reducer for minimized foot print are available for special projects.

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