Product News:
Double-acting diaphragm pump head
A Selection of Metering Pumps Beyond Compare

With NOVADOS metering pumps, Bran+Luebbe offers an unrivalled range for virtually all applications where liquids have to be metered or blended. The product range comprises leak-free diaphragm pumps as well as plunger pumps.

Applications

Industries
- Chemical Processing
- Food & Beverages
- Detergents
- Energy
- Environmental
- Oil & Gas

- Personal Care
- Petrochemical
- Pharmaceutical & Biotechnology
- Pulp & Paper
- Textile
- Water Treatment

Liquids
- From harmless to aggressive, toxic or hazardous
- From clean to slurries with up to 20% solids content
- From low to high viscosity up to 5000 cP and beyond

Operating Options
- Standard metering of one component
- Process metering of one component utilizing a multihead pump
- Multi stream metering of several individual components to separate injection points or for blending

Common design features
- Modular metering pump gears with built-in low noise worm reductions
- Individual stroke length setting utilizing the unique z-shaped crankshaft
- Range of pumphead sizes to allow a flow range of between smallest 0.1 l/h up to largest 40000 l/h on a single head
- Manual or auto flow rate control options

Advantages

Flexible
- Optimal capacity adaptation to widely varying production processes
- Variable stroke length for each pump allows independent flow rate adjustment of each pump component
- Variable speed drive allows flow rate variations while maintaining constant proportions

Economical
- Automation allows higher production efficiency to be achieved

Adaptable
- Existing installations can be altered or expanded with extra pumps or automatic control

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Simply effective: Flow rate adjustment by the z-shaped crankshaft

Flow rate can be adjusted linearly and continuously between zero and maximum by altering the position of the z-shaped crankshaft. This design allows adjustment while the pump is operating or at standstill.

Plunger metering pumps

The right choice for metering harmless or non-critical fluids

Even though the design of plunger pumpheads is quite simple, these Bran+Luebbe pumps demonstrate outstanding performance. This is due to the Bran+Luebbe metering pump valves in combination with the high-precision metering gear.

For certain applications it is possible to use double-acting pumpheads to deliver twice the flow on a single head.

Flow rates range from 100 ml/h up to 40000 l/h, operating pressure may be as high as 1000 bar.
Diaphragm metering pumps

Diaphragm position control for maximum operating security

A leak-proof pump is the right choice whenever product purity or sterility are imperative or when toxic liquids must be handled.

Bran+Luebbe offers a wide range of hydraulically actuated double diaphragm pumps that offer flow rates ranging from 100 ml/hr up to 10000 l/hr at operating pressures up to 1000 bar. The Bran+Luebbe Positive Diaphragm Position Control system (PDPC) ensures that the diaphragm cannot be damaged under critical conditions such as a blocked pipe or closed valves upstream or downstream of the pump.

This system allows unobstructed movement of the diaphragm in the pumping chamber making the pump suitable for the metering of slurries.

NOVADOS diaphragm pumps: Features

- Up to 400 bar operating pressure (PTFE diaphragm)
- Up to 1000 bar operating pressure (metallic diaphragm)
- Up to 150°C operating temperature (engineered versions up to 400°C)
- Meet and exceed API 675 requirements
- Safe dry-run capabilities
- High volumetric efficiency
- Best metering accuracy
- Hermetically sealed by two (2) diaphragm layers with diaphragm condition monitoring as a standard
- Off the shelf NOVALINK CSM 2 Diagnosis interface
- Customizing to specific customer requirements is possible

Double-acting diaphragm pumps

In challenging operating conditions, greater flow rate, high reliability, smaller footprint and with cost savings!!

As an alternative to large single head pumps or smaller multi-headed pumps, Bran+Luebbe can now offer the benefits of a double-acting diaphragm pump head that enables twice the flow rate on a single gearbox whilst maintaining the same metering accuracy.

Advantages

- Doubled flow rate
- Less foot print required compared with conventional duplex pumps
- When executed with the pre-pressure module best suited for energy optimized recirculation applications

Product News:
Double-acting diaphragm pump head
Options to suit special applications

**Pump head executions**
- heating or cooling jackets even incl. valves
- quick-change valves
- remote valves
- optimized flow channels for slurries or viscous fluids

**Valve designs**
- Ball valves (single, double or triple)
- Cone valves with or without spring
- Plate valves

**Materials of construction for liquid-wetted parts of the pump**
- Housings of Stainless steel 1.4571, 1.4581, 1.4462
- Alternatively PVC, PP, PVDF or stainless steel lined with HALAR® (E-CTFE)
- Diaphragms of PTFE or stainless steel 1.4310
- Plungers of stainless steel, ceramic, tungsten carbide
- Valves of stainless steel, plastic, hard metals or exotic material
- Upon request practically all exotic materials such as Hastelloy, Titanium, Stellite etc. are available as well

**Horizontal and vertical combinations**

Bran+Luebbe is the only pump manufacturer worldwide to offer both vertical and horizontal combinations of metering pumps. Possible equipment combinations range from simplex pumps for one stream of liquid to multiplex pumps with up to 12 different streams, each of them can be controlled independently.
The product range

More examples of Bran+Luebbe products with high quality standard, innovation and know-how.

- **Metering pumps** for universal application in the low to medium requirement range
  - ProCam
  - ProCam Smart
  - ProCam Sanitary & Hygienic

- **Process pumps** for large flow rates and high operating pressures
  - NOVAPLEX
  - NOVAPLEX Integral
  - MEGANIZER
  - High pressure homogenizer

- **Dynamic in-line mixer** for gentle but intensive mixing
  - PENTAX
  - PENTAX Hygienic

- **Process systems** as a complete solution for increased productivity and quality
  - AutoBlend
  - Metering and mixing systems

- **Oil & Gas systems** to aid oil & gas recovery onshore and offshore
  - Solar Panel Packages
  - Chemical Injection Systems
  - Flow Control Device Panels

- **On-line analyzers** for use in water and effluent treatment
  - PowerMon
  - PowerMon S

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Your local contact: