FEEDING LIQUIDS

flexible sleeve  Viscosity  Pump
Precision  feed rate  Pulsation  Double-walled
Liquid
Backpressure  Heating
Custom design  Agitator  storage hopper
Collecting tray

Keep the Flow
Every liquid feeder is customized to match the products it is designed to handle. The following are design considerations:

- **Product properties**
  - chemically aggressive or toxic
  - flammable or explosive
  - crystallizing
  - food

- **Parameters**
  - unheated
  - heated
  - process temperature

- **Viscosity**
- Feed rate
- Backpressure
- Density

**FDDW - CLASSIC**
The FDDW Classic liquid feeder, where the motor and the pump are not weighed, enables liquids to be heated thoroughly up to 150 degrees Celsius. Its digital load cell records even the smallest feed rates. On request the FDDW Classic can also be fitted with an analog load cell or supplied in a volumetric version.

The emergency draining detail is fitted as standard on the FDDW Classic, and given its easy-to-clean Hygienic Design configuration, it is suitable for feeding liquid foods or pharmaceutical products. The FDDW Classic is available in the following standard hopper sizes: 3 liters, 6 liters, 50 liters and 100 liters as well as in special hopper sizes. The hopper covers are also available as manual refilling versions.

**ACCESSORIES / OPTIONS**
- Refill valve
- Electric heater
- Double-walled for liquid heating
- N2 purge
- Pulsation damper
- Agitator
- Feed hopper
- Collecting tray
- Pressure hose
- Mobile design

**FDDW - S**
Its vertical, space-saving configuration gives the FDDW S liquid feeder a compact design. Liquids can be heated up to 100 degrees in both the 6-liter and 50-liter sizes. The FDDW S is fitted with an analog load cell, is easy to clean and includes an emergency drain.

**GEAR PUMP**
- compact and energy-efficient
- uniform conveying by means of counterrotating gears
- suitable for highly viscous media, e.g. silicone oils and prepolymers
- high degree of feeding accuracy
- pulsation-free

In addition, depending on requirements and tasks, other pumps are used, e.g. a progressing cavity pump for pumping viscous and highly viscous media, e.g. liquid color or honey.

**PISTON DIAPHRAGM PUMP**
- piston stroke-based conveying in single, double or triple piston crown configuration
- low-maintenance through diaphragm monitoring
- suitable for low-viscosity media, e.g. water, plasticizers and silanes
- counter pressures up to 350 bar
- high degree of efficiency

**VISCOSITY**
Temperature impact on various liquids at the same pressure:

In addition, the graph displays viscosity in mPas at different temperatures. The viscosity values range from 1 mPas to 10000 mPas. The media listed include Olive oil, Water, Alcohol, Ethanol, Mercury, and other substances.

**CONVEYING**

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