

Nyva Series

HYDRAULIC DIAPHRAGM METERING PUMPS



innovation > technology > future

Nyva Series

Hydraulic diaphragm metering pumps

A line hydraulic diaphragm metering pumps designed according to the **API 675 Standards**.

The possibility of construction with various materials allows these metering pumps to satisfy every liquid dosing and mixing application.

Furthermore, their complete compliance with the **ATEX Standards** even allows these pumps to be installed in dangerous areas.



for zone 1
and zone 2

Mechanisms

Mechanical return type available in several sizes.

Main features:

- Internal worm gearbox, oil bath lubricated with low noise emissions
- Rotating parts on bearings to minimise power consumption
- High precision stroke adjustment, both manual and via electric actuator

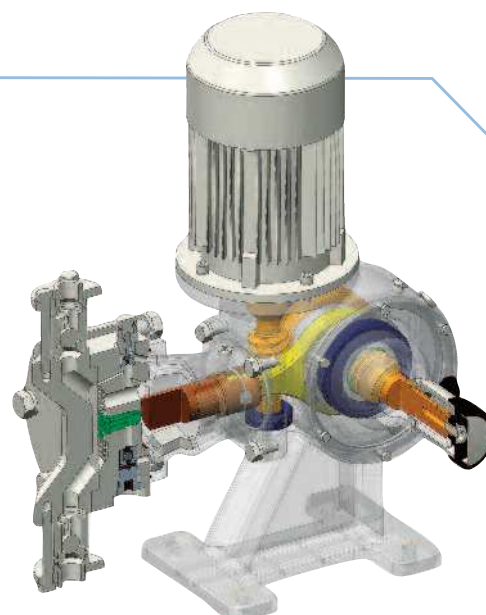
Hydraulic diaphragm heads

The ideal solution for applications requiring high levels of operational safety and reliability

- Zero leakage; hermetic construction for dosing toxic, corrosive and other unsafe liquids, for which the absence of leaks is fundamental
- Protection against external pollutants which could contaminate the liquid being pumped
- Flexibility of use; the PTFE diaphragms are compatible with a huge liquid range

Mechanical refilling system

It maintains a hydraulic fluid constant level, thereby guaranteeing maximum precision and repeatability. It keeps also under control the deformation of diaphragm thereby increasing its duration.



On demand double diaphragm with rupture detector

In case of breaking of one of the two diaphragms, the detector activates either a local visual alarm or a pressure switch. The second diaphragm ensures the continued operation of the pump. Allowing scheduled maintenance.





Venting system

Aside from guaranteeing automatic venting during operation, the venting system also facilitates the pump priming by favouring the air purge by means of a manual action.



Pressure relief valve

It protects the pump against unexpected overpressure.



Cartridge valves

In order to ensure maximum dosing precision, even for small flow rates, double and triple ball configurations are available with high precision seats. The metal gaskets for the AISI 316L stainless steel heads, and the FPM gaskets for those in plastic, guarantee maximum compatibility.



Flow Rate adjustment

- Easy to handle knob with high visibility nonius for the best flow adjustment.
- Optionally automatic variation by electrical actuators **AKTUA**.

The electrical actuators **AKTUA** were designed to replace the pump manual adjusting device of the flow, with an automatic system remotely controllable, which acts on the length of the pump stroke directly in the field.

- Internal display 4-digit, 7-segment display.
- Calibration can also be executed with system running.
- Available in standard version for installation in areas not classified, or ATEX compliant for installation in dangerous areas.



Applications

Water treatment and Industrial sectors

- Municipalities
- Wastewater
- Chemical
- Food & Beverages
- Detergents
- Power Generation
- Environment
- Petrochemical
- Pharmaceutical
- Paper
- Textile

Technical Features

Pressure

- up to 124 bar

Flow Rate

- up to 660 L/h

Temperature

- Ambient: from -5 °C to 40 °C
- Fluid: from -5 °C to 50 °C

Contact materials

- AISI 316L; PP; PVDF; PVC

Accessories

- Flow rate calibration pots
- Pulsation dampers
- Safety valves
- Back pressure valves