



NOVADOS H8

Metering Pumps

Comprehensive Metering Solutions for Precise Liquid Control

We offer an extensive range of metering pumps designed for almost any situation where liquids need to be accurately metered or blended. Our NOVADOS metering pumps include both diaphragm and plunger models, with drive options suitable for single or multi-stream applications.

Enhanced Performance & Efficiency

The H8 solution brings advanced features to boost your operational efficiency. Its internal lubrication system and variable speed compliance reduce the need for additional equipment and simplify regulatory requirements.

Key features include:

- **Active Cooling Options:** Ensure optimal performance in a variety of conditions.
- **Improved Operating Angle Capabilities:** Maximize efficiency across diverse applications.
- **Simplified Design:** Fewer parts offer greater durability and ease of maintenance.



NOVADOS H8 with double-acting diaphragm pump head

The NOVADOS series ensures spare part availability, while enhanced lifting capabilities and compatibility with B-machine spare parts provide exceptional reliability and cost savings. An upgraded gearbox, with a more robust crankshaft and adjustable stroke, establishes the H8 as the new standard in our product line.

Installation and Operating Conditions*

- **Hazardous Area:** up to Zone 1 IIC T4 (Zone 22 upon request)
- **Ambient Temperature Range:** from +40°C to -20°C without special measures (special solutions upon request)
- **Fluid Temperature Range:** from +60°C to -40°C with special measures (special solutions upon request)

*These are limit values, please state actual conditions with enquiry.

FLOW RATE TABLE (FOR SINGLE MODULE) ¹		
PUMP HEAD TYPE	DIAPHRAGM SINGLE-ACTING	DIAPHRAGM DOUBLE-ACTING
Material of displacement body Housing material	PTFE Stainless Steel Flow rate at a nominal stroking speed of 212 min ⁻¹ l/h	
Max. Operating Pressure ² bar		
1000	0...740 ³	-
700	0...1070 ³	-
500	-	0...2920
400	0...1550	-
360	0...2110	0...4220
315	0...2420	0...4910
250	0...2990	0...5960
200	0...3750	0...7490
160	0...4750	0...9350
135	0...5540	-
130	-	0...11730
100	0...7670	0...15520
40	0...14930 ⁴	-

¹ The table shows a selection of all possibilities and serves as an initial guideline. Pumps will be sized for the specific requirements. The nominal stroking speed may be different from the value stated above.

² Max. operating pressure of actual pumps may vary from figures stated.

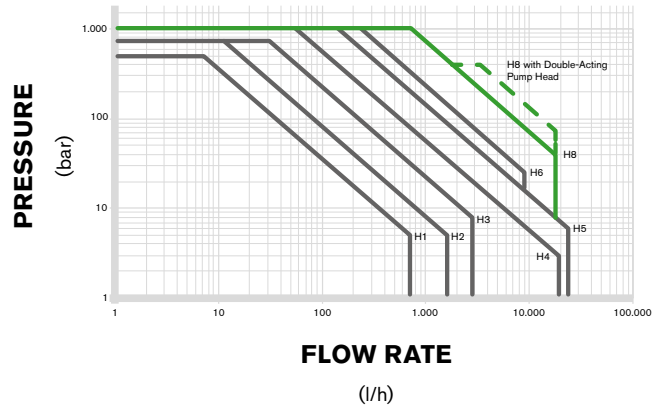
³ Stainless Steel diaphragm

⁴ Stroking speed 169 min⁻¹

Flow rates at 100 % volumetric efficiency. Please allow for transmission losses. Metering accuracy: as good as ± 0.5 %

Technical Data

- Flow rate up to 15520 l/h
- Pressure to 1000 bar +



General Specifications

Materials of construction of liquid-wetted parts

- Housing: 316/316L Stainless Steel, 1.4571 or 1.4462 others on request
- Diaphragm: High Performance Polymer and Stainless Steel Options
- Plungers: Stainless Steel or Ceramic
- Optional Materials: Super Duplex, Hastelloy, Titanium and other materials

Pump Gear Design

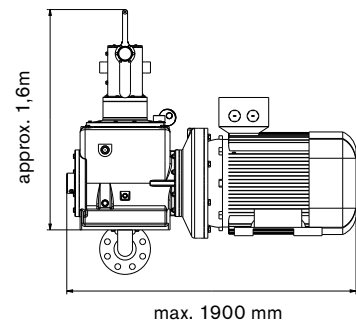
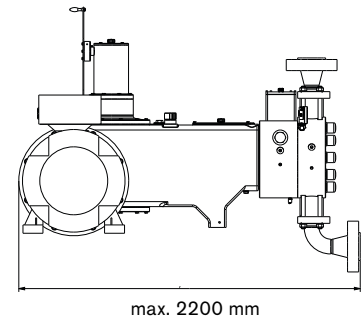
- Worm gear with different reduction ratios
- Splash lubrication
- Stroke length adjustment via eccentric (Z-shape) crankshaft

Flow Rate Control

- Manual, electric, pneumatic or speed variation

Drive

- Electric motor with fixed or variable speed
- Other drives on request



Weight according to equipment
(without motor) approx. 1100 kg

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