

NOVADOS H5 Metering Pumps

DIAPHRAGM AND PLUNGER PUMPS

Versatility

We offer an extensive range of metering pumps for practically every situation where liquids have to be either accurately metered or blended together. Our NOVADOS metering pumps include diaphragm and plunger pumps, drives to accommodate single or multi-stream applications using horizontal or vertical configurations. Manual or automatic control options are available, with various liquid end materials manufactured to our proven designs and complemented by a variety of accessories for process automation.

The modular construction allows the pump to be designed to accommodate installation parameters.

This allows nearly all gear sizes of the NOVADOS series to be combined for process or recipe metering.



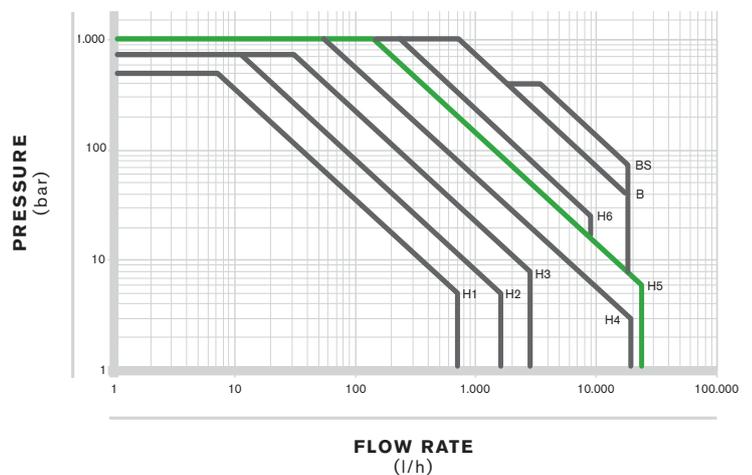
Technical Data

- Flow rate up to 22365 l/h
- Pressure up to 1000 bar

Installation and Operating Conditions*

- **Hazardous area:**
up to Zone 1 IIC T4 (Zone 22 upon request)
- **Ambient temperature range:**
from -40°C to +50°C
(special solutions upon request)
- **Fluid temperature range:**
from -40°C up to +150°C
(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		PLUNGER
Material of displacement body Housing material	PTFE Stainless Steel/Plastic	Stainless Steel Stainless Steel	Ceramic or Stainless Steel Stainless Steel/Plastic
Flow rate at 200 min ⁻¹ l/h	max. operating pressure ² bar	max. operating pressure ² bar	max. operating pressure ² bar
0... 145	-	1000	500
0... 353	400	-	400
0... 443	-	325	-
0... 509	-	-	280
0... 579	250	-	-
0... 733	200	-	200
0... 905	160	-	-
0... 997	-	144	144
0... 1414	100	-	100
0... 1773	-	-	80
0... 2244	63	63	-
0... 2615	-	55	55
0... 2771	50	-	-
0... 3181	-	-	45
0... 3619	40	-	-
0... 3802	-	-	38
0... 4580	-	-	31
0... 5654	25	-	25
0... 8836	16	-	16
0... 17064 ³⁾	-	-	8
0... 22365 ³⁾	-	-	6

1) The table shows an excerpt of all possibilities and serves as an initial guideline. Pumps will be sized for the specific requirements.

2) Max. operating pressure of actual pumps may vary from figures stated. Pumps with housing material plastic are generally limited to max. 10 bar operating pressure.

3) Piston (double-acting) pump head at 100 min⁻¹

- Flow rates at 100% volumetric efficiency. Please allow for transmission losses
- Metering accuracy: as good as ±0.5 %
- Selectable stroking speeds (50 Hz): 50, 63, 82, 100, 127, 164, 200 min⁻¹. Different stroking speeds for 60 Hz.

General Specification

Materials of construction of liquid-wetted parts

- Housing of stainless steel 1.4571 or 1.4462
- Diaphragms of PTFE or stainless steel 1.4310
- Plungers of stainless steel or ceramic
- Options: materials such as Super Duplex, Hastelloy, Titanium and other material

Pump gear design

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

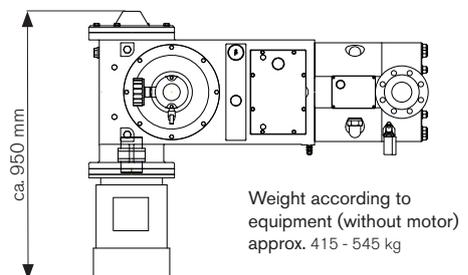
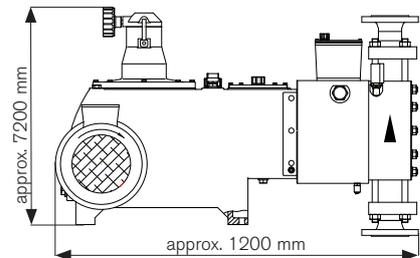
Flow rate control

- Manual, electric, pneumatic or speed variation

Drive

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

We reserve the right to make technical changes without notice.



SPX[®]

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SPX reserves the right to incorporate our latest design and material changes without notice or obligations.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.spx.com.

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