

NOVADOS B Metering Pumps

DIAPHRAGM AND PLUNGER PUMPS

Versatility

We offer an extensive range of metering pumps for almost every situation where liquids have to be accurately metered or blended together. Our NOVADOS metering pumps comprise diaphragm and plunger pumps, with drives to accommodate single or multi-stream applications using horizontal or vertical configurations.

Nearly all gear sizes in the NOVADOS series can be combined for process and metering pumps to achieve the required flow rate and pressure parameters. Manual or automatic control options for flow rate adjustment are available, with various liquid end materials and complemented by a variety of accessories to suit the process.

These numerous possible combinations and variants enable bespoke solutions to be offered, which suit the characteristics of the metered liquid.



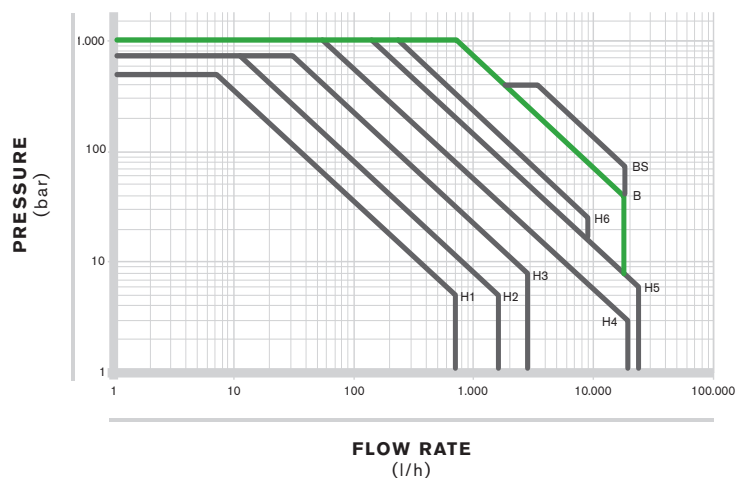
Technical Data

- Flow rate up to 12585 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	
Material of displacement body Housing material		PTFE Stainless Steel/Plastic	Stainless Steel Stainless Steel
Flow rate at 214 min ⁻¹ l/h		max. operating pressure ² bar	max. operating pressure ² bar
0... 755		-	1000
0... 1087		-	700
0... 1566		400	-
0... 1693		361	-
0... 1945 ³⁾		315	-
0... 2400 ³⁾		255	-
0... 3010 ³⁾		203	-
0... 3815 ³⁾		160	-
0... 4447 ³⁾		138	-
0... 6151 ³⁾		100	-
0... 7783 ³⁾		79	-
0... 9608 ³⁾		64	-
0... 12585 ⁴⁾		41	-

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.

3) Stroking speed 170 min⁻¹

4) Stroking speed 142 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): 72, 96, 107, 114, 142, 170, 214 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

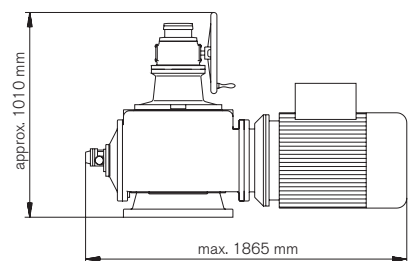
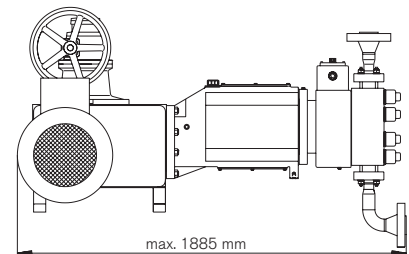
Flow rate control

- 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.



Weight according to equipment
(without motor) approx. 750 - 1200 kg

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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