



NOVADOS B

Metering Pumps

Flow rates up to 12585 l/h

Pressure up to 1000 bar

Versatility

These units can be combined to multiplex pumps for process or recipe metering with all gear sizes of Bran+Luebbe's horizontal NOVADOS range H1, H2, H3, H4, H5, H6, B and BS



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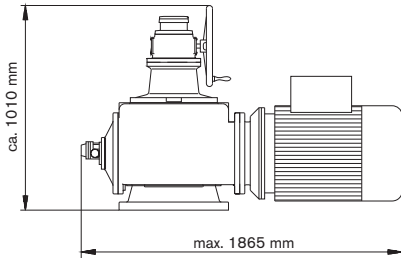
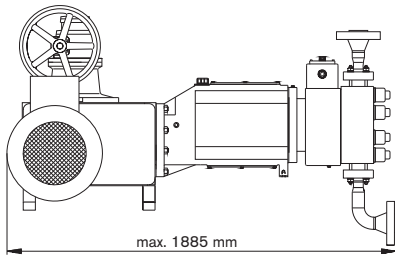
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www.motralec.com

SPX®

General specification



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

Materials of construction of liquid-wetted parts

- Housings of St. Steel 1.4571, 1.4581 or 1.4462, alternatively, PVC or PP
- Diaphragms of PTFE or stainless steel 1.4310
- Plungers of stainless steel or ceramic
- Options: materials such as Super Duplex, Hastelloy, Titanium, Halar® coating or PVDF and other materials

Pump gear design

- Worm gear with different reduction ratios
- Large oil sump
- Suitable for variable speed

Stroke length adjustment

- Eccentric (Z-shape) crankshaft

Flow rate control

- Manually, electrically, or pneumatically during operation and standstill, or speed variation

Driver

- 4-, 6- or 8-pole electric motor with fixed or variable speed

Installation and Operating Conditions*

- **Hazardous area:** up to Zone 1 IIC T4 (Zone 22 upon request)
- **Ambient temperature range:** from -40°C up to +55°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 inquiry.

Flow rate table (for single module)¹⁾

Pump head type	Diaphragm	
	PTFE St.Steel	St. Steel St. Steel
Material of displacement body	PTFE	St. Steel
Housing material	St.Steel	St. Steel
Flow rate at 214 min ⁻¹	max. operating pressure ²⁾	
l/h	bar	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 deviate from figures stated.

3) Stroking speed 170 min⁻¹ 4) Stroking Speed 142min⁻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 driver.

We reserve the right for technical changes without notice.

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