NOVADOS H1 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.

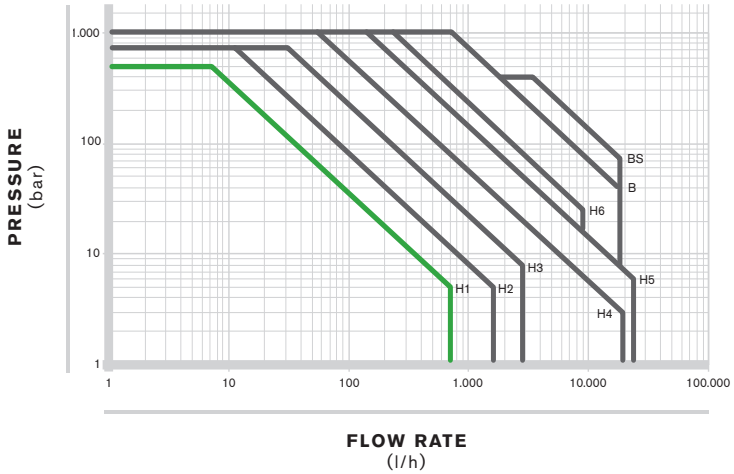
Technical Data

- Flow rate up to 748 l/h
- Pressure up to 500 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.



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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... 1,7	-	-	500
0... 4,7	125	-	500
0... 6,7	-	500	-
0... 12,1	350	298	298
0... 18,8	200	-	-
0... 27,1	125	133	133
0... 48,2	80	-	-
0... 75,4	50	48	48
0... 118	32	-	-
0... 170	-	21	21
0... 193	20	-	-
0... 301	12,5	-	-
0... 332	-	11	11
0... 471	8	-	8
0... 591	6	-	6
0... 725	-	-	5
0... 748	5	-	-

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.

- 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, 72, 85, 100, 127, 144, 170, 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 or plastic PVC or PP
- Diaphragms of PTFE or stainless steel 1.4310
- Plungers of stainless steel or ceramic
- Options: other material options including Super Duplex, Hastelloy and Titanium are available

Pump gear design

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

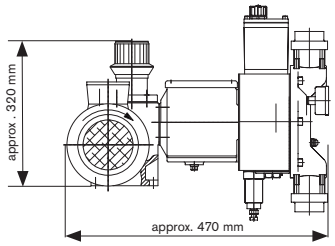
Flow rate control

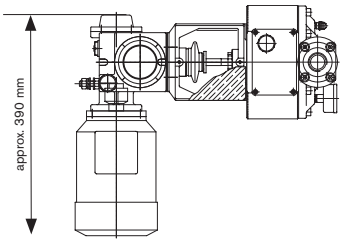
- Manual, electric, pneumatic or speed variation

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. 19-106 kg

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NOVADOS H2 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.

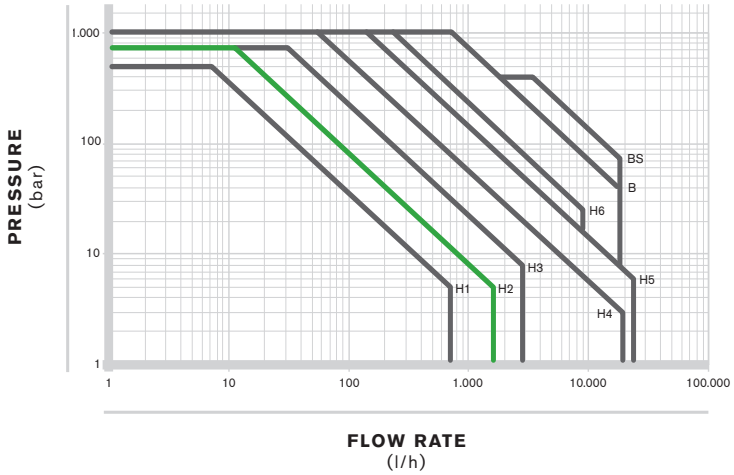
Technical Data

- Flow rate up to 1810 l/h
- Pressure up to 700 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.



Bran+Luebbe®

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... 2,5	-	-	500
0... 7,0	-	-	500
0... 10,1	-	700	500
0... 18,1	400	500	500
0... 28,2	350	-	-
0... 40,7	220	160	200
0... 72,4	125	-	125
0... 113	80	80	80
0... 177	50	50	50
0... 254	-	35	35
0... 290	32	-	-
0... 366	-	-	24
0... 452	20	-	-
0... 499	-	18	18
0... 707	12,5	-	12,5
0... 887	10	-	10
0... 1087	-	-	8
0... 1122	8	-	-
0... 1307	-	-	7
0... 1590	-	-	6
0... 1810	5	-	-

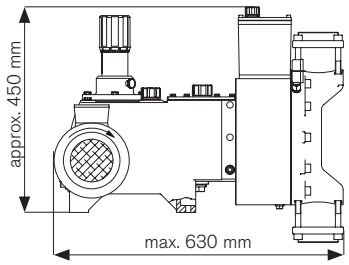
1) The table shows an excerpt of all possibilities and serves as an initial guideline. Pumps will be sized for the specific requirements.
2) Max. operating pressure of actual pumps may vary from figures stated. Pumps with housing material plastic are generally limited to max. 10 bar operating pressure.

- 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, 72, 85, 100, 127, 144, 170, 200 min^{-1}. Different stroking speeds for 60 Hz..

General Specification

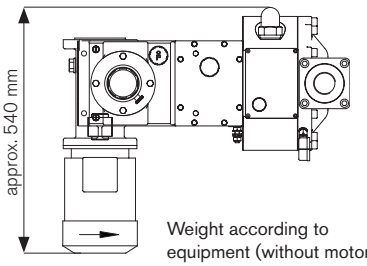
Materials of construction of liquid-wetted parts

- Housing of stainless steel 1.4571 or 1.4462 or plastic PVC or PP
- Diaphragms of PTFE or stainless steel 1.4310
- Plungers of stainless steel or ceramic
- Options: other material options including Super Duplex, Hastelloy and Titanium are available



Pump gear design

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



Weight according to equipment (without motor) approx.70-155 kg

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.

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NOVADOS H3 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.

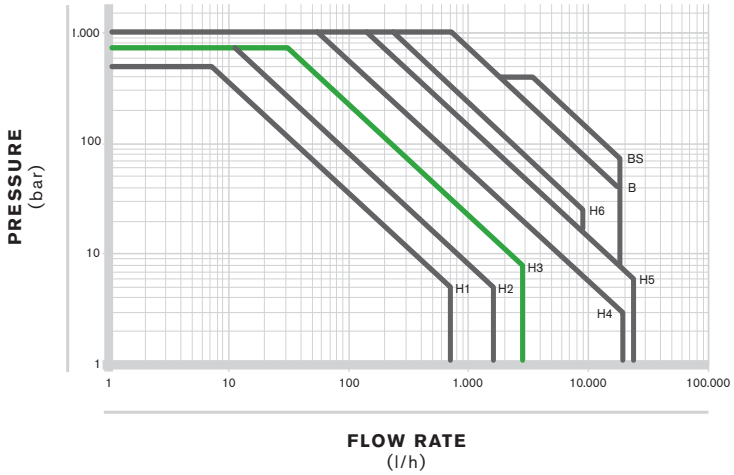
Technical Data

- Flow rate up to 2827 l/h
- Pressure up to 700 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.



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FLOW RATE TABLE (FOR SINGLE MODULE) [1)]

PUMP HEAD TYPE	DIAPHRAGM		PLUNGER
Material of displacement body Housing material Flow rate at 200 min^{-1} l/h	PTFE Stainless Steel/Plastic max. operating pressure[2] bar	Stainless Steel Stainless Steel max. operating pressure[2] bar	Ceramic or Stainless Steel Stainless Steel/Plastic max. operating pressure[2] bar
0... 18,1	-	-	500
0... 28,2	-	700	500
0... 40,7	-	-	500
0... 72,4	350	-	315
0... 113	200	-	200
0... 177	125	-	125
0... 254	-	-	87
0... 290	80	-	-
0... 366	-	-	60
0... 452	50	-	-
0... 499	-	-	45
0... 707	32	-	32
0... 887	-	-	25
0... 1087	-	-	20
0... 1122	20	-	-
0... 1307	-	-	17
0... 1590	-	-	15
0... 1810	12,5	-	-
0... 1901	-	-	11,5
0... 2290	-	-	10
0... 2827	8	-	-

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.

- 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, 72, 85, 100, 127, 144, 170, 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 or plastic 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 and other material

Pump gear design

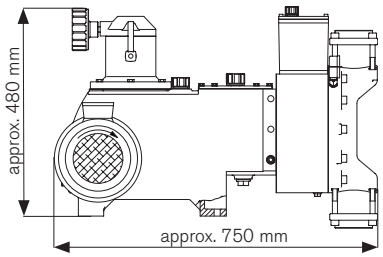
- Worm gear with different reduction ratios
- Splash lubrication
- Stroke length adjustment via eccentric (Z-shape) crankshaft

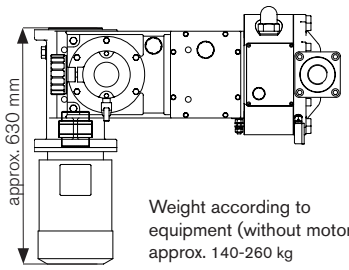
Flow rate control

- Manual, electric, pneumatic or speed variation

Drive

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





Weight according to equipment (without motor) approx. 140-260 kg

We reserve the right to make technical changes without notice.

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Issued: BL-106 - E - 1.0 - 02/2013

NOVADOS H4 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.

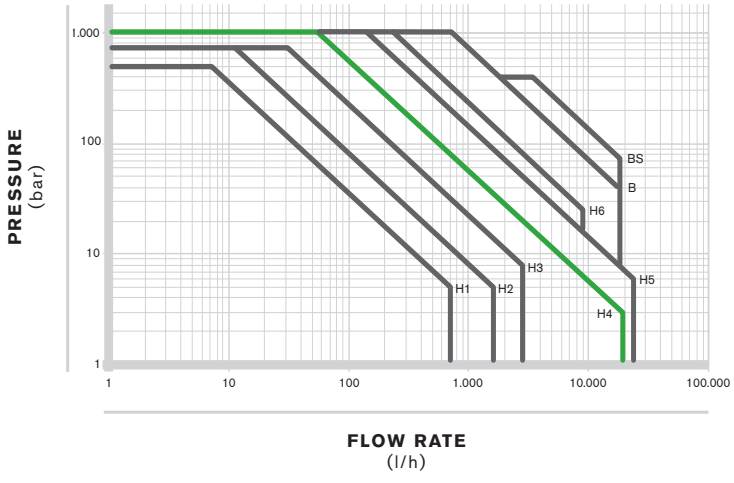
Technical Data

- Flow rate up to 17064 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.



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FLOW RATE TABLE (FOR SINGLE MODULE) [1)]

PUMP HEAD TYPE	DIAPHRAGM		PLUNGER
Material of displacement body Housing material Flow rate at 200 min^{-1} l/h	PTFE Stainless Steel/Plastic max. operating pressure[2] bar	Stainless Steel Stainless Steel max. operating pressure[2] bar	Ceramic or Stainless Steel Stainless Steel/Plastic max. operating pressure[2] bar
0... 56,4	-	1000	-
0... 81,3	-	700	500
0... 145	400	-	400
0... 226	250	250	250
0... 353	160	-	160
0... 509	-	110	113
0... 579	100	-	-
0... 733	80	-	80
0... 905	63	-	-
0... 997	-	58	58
0... 1414	40	-	40
0... 1773	32	-	32
0... 2244	25	25	-
0... 2615	-	22	22
0... 3181	-	-	18
0... 3619	16	-	-
0... 5542 [3)]	10	-	10
0... 6729 [3)]	-	-	8
0... 8723 [3)]	-	-	7
0... 12469 [3)]	-	-	5
0... 17064 [3)]	-	-	3

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, 72, 85, 100, 127, 144, 170, 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 or plastic 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 and other material

Pump gear design

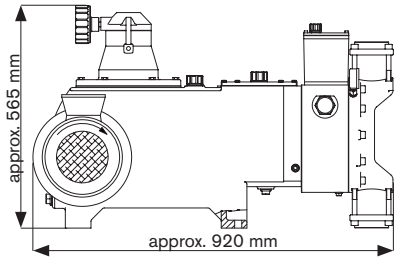
- Worm gear with different reduction ratios
- Splash lubrication
- Stroke length adjustment via eccentric (Z-shape) crankshaft

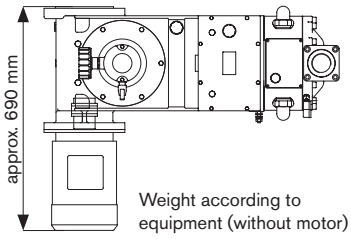
Flow rate control

- Manual, electric, pneumatic or speed variation

Drive

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





Weight according to equipment (without motor) approx. 230 - 360 kg

We reserve the right to make technical changes without notice.

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Issued: BL-107 - E - 1.0 - 02/2013

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.

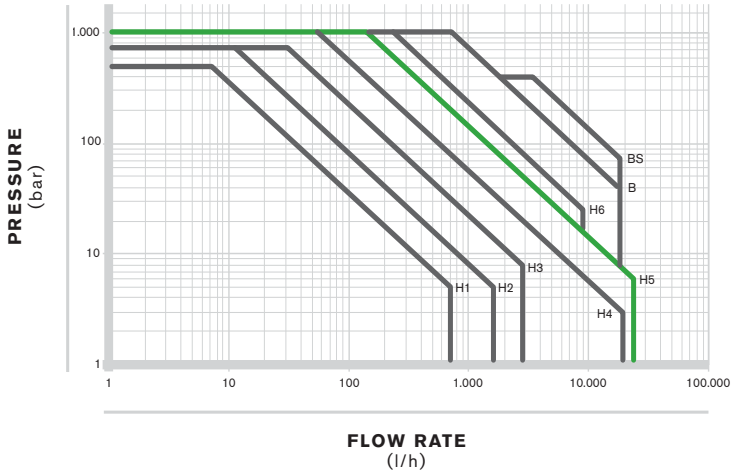
Technical Data

- 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.



Bran+Luebbe®

FLOW RATE TABLE (FOR SINGLE MODULE) [1)]

PUMP HEAD TYPE	DIAPHRAGM		PLUNGER
Material of displacment body Housing material Flow rate at 200 min^{-1} l/h	PTFE Stainless Steel/Plastic max. operating pressure[2] bar	Stainless Steel Stainless Steel max. operating pressure[2] bar	Ceramic or Stainless Steel Stainless Steel/Plastic 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

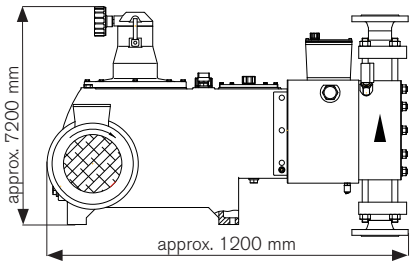
Flow rate control

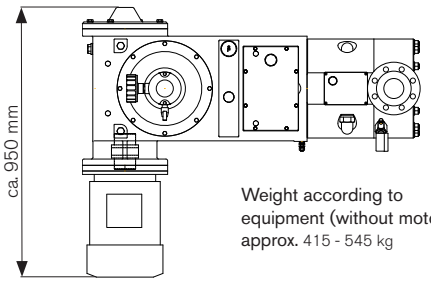
- Manual, electric, pneumatic or speed variation

Drive

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

We reserve the right to make technical changes without notice.





Weight according to equipment (without motor) approx. 415 - 545 kg

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NOVADOS H6 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.

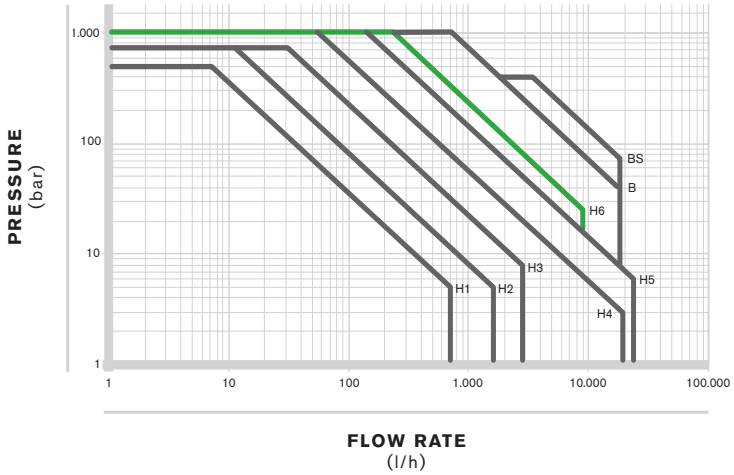
Technical Data

- Flow rate up to 8434 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.



Bran+Luebbe®

FLOW RATE TABLE (FOR SINGLE MODULE) [1]

PUMP HEAD TYPE	DIAPHRAGM		PLUNGER
Material of displacement body Housing material Flow rate at 191 min^{-1} l/h	PTFE Stainless Steel/Plastic max. operating pressure[2] bar	Stainless Steel Stainless Steel max. operating pressure[2] bar	Ceramic or Stainless Steel Stainless Steel/Plastic max. operating pressure[2] bar
0... 215	-	1000	-
0... 423	-	500	-
0... 553	400	-	-
0... 864	250	-	-
0... 1093	200	-	-
0... 1349	160	-	-
0... 1693	130	-	-
0... 2142	100	-	-
0... 2645	80	-	-
0... 3455	63	-	-
0... 5398	40	-	-
0... 8434	25	-	-

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.

- 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, 78, 87, 100, 127, 156, 175, 191 min^{-1}. Different stroking speeds for 60 Hz..

General Specifications

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

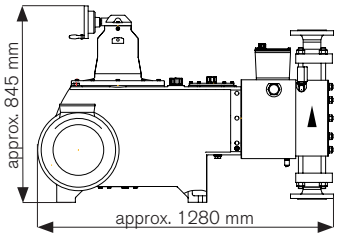
Flow rate control

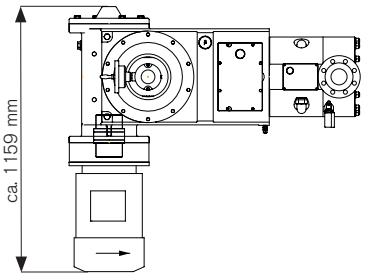
- Manual, electric, pneumatic or speed variation

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. 515 - 680 kg

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NOVADOS H8 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.

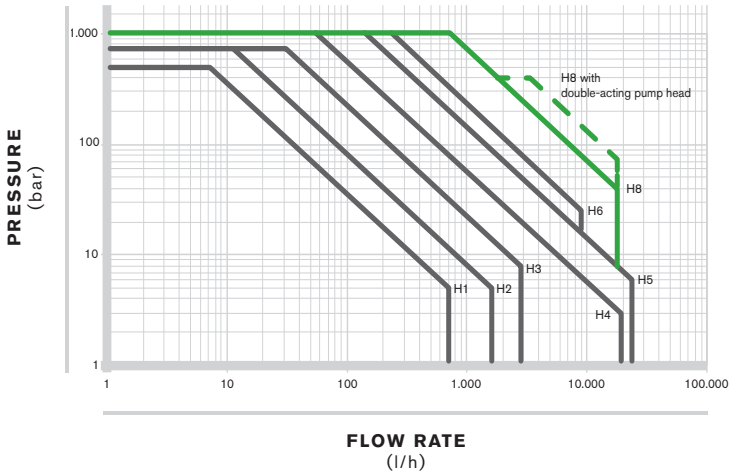
Technical Data

- Flow rate up to 15520 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.



Bran+Luebbe®

FLOW RATE TABLE (FOR SINGLE MODULE) [1]

PUMP HEAD TYPE	DIAGPHRAGM SINGLE-ACTING	DIAPHRAGM DOUBLE-ACTING
Material of displacement body Housing material	**PTFE Stainless Steel**	**PTFE Stainless Steel**
max. operating pressure[2] bar	Flow rate at a nominal stroking speed of 212 min^{-1} l/h	
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	-
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 %

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

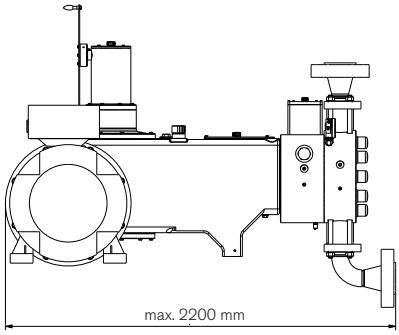
Flow rate control

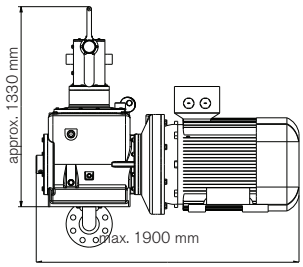
- Manual, electric, pneumatic or speed variation

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. 1100 kg

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