

SERIES 4 MULTI-LAYER DIAPHRAGM PUMPS



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MULTI-LAYER DIAPHRAGM PUMPS MAXIMUM PROCESS RELIABILITY

sera multi-layer diaphragm pumps operate according to the same function principle as the conventional diaphragm pump, i.e. the oscillating diaphragm is mechanically controlled using a push rod resulting in the dosing medium being conveyed.

APPLICATIONS

- Cleaning in place
- Waste water treatment
- Exhaust gas treatment

MULTI-LAYER DIAPHRAGMS

Due to the use of the multi-layer diaphragms, safety-related demanding dosing tasks can be realised. The increased safety requirements are taken into account by, in comparison with single-layer diaphragms, significantly improved diaphragm service lives and the diaphragm monitoring (pressure switch, manometer etc.).

MULTI-LAYER DIAPHRAGM PACKAGE

This consists of three PTFE diaphragms. If the working diaphragm is damaged, this concept with the pressure-controlled diaphragm monitoring as standard ensures absolute leak tightness. Damage to the working membrane does not result in any direct failure of the dosing pump.

OVERVIEW OF ADVANTAGES

- High operational reliability due to multi-layer diaphragm technology
- Display of the diaphragm state using integrated diaphragm rupture monitoring (visually as standard / electrically optional)
- Excellent suction performance without additional components
- Can be used in explosion-protected areas using optional equipment variants

CONTROLLABLE VARIANT

- Future-proof pump concept due to integrated, multi-functional control electronics
- Easy start-up due to "Plug&Dose"
- High application reliability for viscous media due to Slow Mode technology



VERSIONS

MATERIALS

The high quality of the materials guarantees reliable continuous operation. The optimum material is available for every requirement.

PUMP BODY AND VALVES

PVC, PP, PVDF, 1.4571, PP-GFP, PVDF-GFP, titanium, Hastelloy

VALVE BALLS

PTFE, 1.4401, Hastelloy

VALVE SEALS

EPDM, FPM, FEP-coated

DRIVE DIAPHRAGMS

PTFE (3-layer)

DRIVE

The drive unit in each case consists of a proven motor make, coupled with stroke gearing in a robust case.

sera cases are also suitable for the harshest operating conditions. Material thickness and surface treatment even resist chemical attacks

REGULATION

The flow rate of the **sera** multi-layer diaphragm pumps is constant or continuously adjustable.

- Three-phase motors with frequency converter for stroke frequency change
- Stroke length adjustment

The stroke length of the push rod is changed here so that the diaphragm is not completely pulled back. This results in a lower delivery volume per stroke.

SPECIAL VERSIONS

We provide the individual solution for special dosing tasks:

Among other things, valves as double valves, with spring loading, attachment of stroke counter, electric actuators.

ACCESSORIES

All necessary accessory parts for the optimal installation of dosing pumps such as valves, pulsation dampers, dosing valves, dosing tanks, flow monitors etc. can be ordered from us.



- | | |
|---|---|
| 1 | Stroke mechanism |
| 2 | Connecting rod |
| 3 | Multi-layer diaphragm package <ul style="list-style-type: none">• Working diaphragm• Signal diaphragm• Protective diaphragm |
| 4 | Diaphragm monitoring using <ul style="list-style-type: none">• Manometer (RF4xx.2 - ...ML)• Pressure switch (C4xx.2 - ...ML) |
| 5 | Pump body |
| 6 | Suction valve |

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ADDITIONAL FEATURES



CONTROL ELECTRONICS

The control electronics have many advantages such as the possibility to actuate externally via an interface, batch programming or the constant monitoring of diaphragm, flow rate and tank level.

PROFIBUS INTERFACE

sera dosing pumps can optionally be equipped with a control unit. The pumps of the 410.2 series keep the current C-electronics, while the new 409.2 is equipped with the innovative Pro+ board. Its design allows the later addition of a separately available bus interface. The C-electronic is available in two different executions.



PROFINET INTERFACE

The control electronics of the 409.2 Pro+ series can be extended using a ProfiNet INTERFACE MODULE.

This is connected directly to the electronics and provides the possibility to integrate the dosing pump into a ProfiNet network. With two ProfiNet connections it can be integrated into both ring and tree structures.

FREQUENCY CONVERTER

The speed and thus the delivery rate of the dosing pump can be regulated without control electronics using an attached or external frequency converter.



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ADDITIONAL FEATURES

VISUAL DIAPHRAGM MONITORING WITH MANOMETER

In the case of any damage of the working diaphragms, the pressurised medium flows through a hole to the signal manometer and causes a pointer deflection. The pump can continue to operate thanks to the multi-layer diaphragms.



DIAPHRAGM MONITORING WITH PRESSURE SWITCH

In the case of any damage of the working diaphragms, a pressure is generated at the pressure switch. The pending signal can then be processed. The pump can continue to operate thanks to the multi-layer diaphragms.



STROKE FREQUENCY SENSOR

sera dosing pumps are oscillating displacement pumps with an exactly defined stroke volume for each pump stroke. The stroke frequency sensor records the individual pump strokes and forwards each individually to an evaluation unit.



ELECTRIC ACTUATOR FOR STROKE LENGTH ADJUSTMENT

Using the electric actuator for stroke length adjustment, this can be automatically adjusted by a control unit and manual adjustment is no longer needed. Depending on the required delivery volume, the actuator then screws the adjusting spindle in and out.





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We offer individual solutions in dosing technology for our customers.
For more information or material please contact your sera partner.
Please visit www.sera-web.com for our complete product range.

CONTROL ELECTRONICS (OPTION) FUNCTIONS AND MODES OF OPERATION

- Manual operation
- Manual stroke frequency adjustment
- PROFIBUS DP-VO Slave interface (option)
- External START/STOP
- Pulse operation / fractinator
- Pulse memory
- Analogue operation (0/4 ... 20 mA)
- Analogue operation standardization
- Batch dosing (manual / with timer)
- 3 LEDs for status indication
- Multiline, illuminated display
- Menu-driven parameterization
- Flow indication
- Calibration function
- 4-key operation
- 2 digital outputs (PLC)
- 1 analogue output (PLC or contact signal)
- 2 analogue/digital inputs (reversible)
- 1 digital input
- Programmable input-/output functions
- Diaphragm monitoring
- Connection/evaluation: 2-stage level monitoring
- Connection/evaluation: Flow monitoring
- Connection/evaluation: Flow metering
- Voltage 210-250V, 50/60Hz
- 3m connection cable with Euro-plug

| Operating Modes & Messaging | Pro | Pro+ |
|-----------------------------|-----------------------------------|-----------------------------------|
| Manual operation | ✓ | ✓ |
| Pulse operation | ✓ | ✓ |
| Analogue operation | ✓ | ✓ |
| Batch operation | ✗ | ✓ |
| Timer | ✗ | ✓ |
| Interface | ✗ | ✓ |
| Calibration | ✓ | ✓ |
| Suction mode | ✓ | ✓ |
| Diaphragm monitoring | ✓ | ✓ |
| Data logging (SD-Card) | ✗ | ✓ |
| Error messaging | Error Code + display color change | Plain text + display color change |
| Clock for data & time | ✗ | ✓ |

| Connection & Control | Pro | Pro+ |
|---------------------------------------|---|--|
| Control elements & Display | 4-button control Multilingual display 4-color status indicator | Removeable handheld with two buttons and clickwheel Display with 8 languages (de, en, es, fr, nl, cs, fi, tr) 4-color status indicator |
| Control cable | optional | 5m control cable (8-pole) |
| In-/Output connection | ✓ | ✓ |
| Level connection | ✓ | ✓ |
| Flow monitor & measurement connection | ✗ | ✓ |
| Profibus/Profinet | ✗ | optional |
| Inputs | Digital pulse (NO/NC) Digital extern stop (NO/NC) Analogue 4-20mA | Digital/analogue, free parametrizable Digital/analogue, free parametrizable Digital, free parametrizable |
| Outputs | 24V Ready to run (NO/NC) Stroke signal (NO/NC) | 24V Digital, free parametrizable Digital, free parametrizable Analogue, free parametrizable |
| Updateable | USB (Stick) | USB (to host) |

TECHNICAL DATA

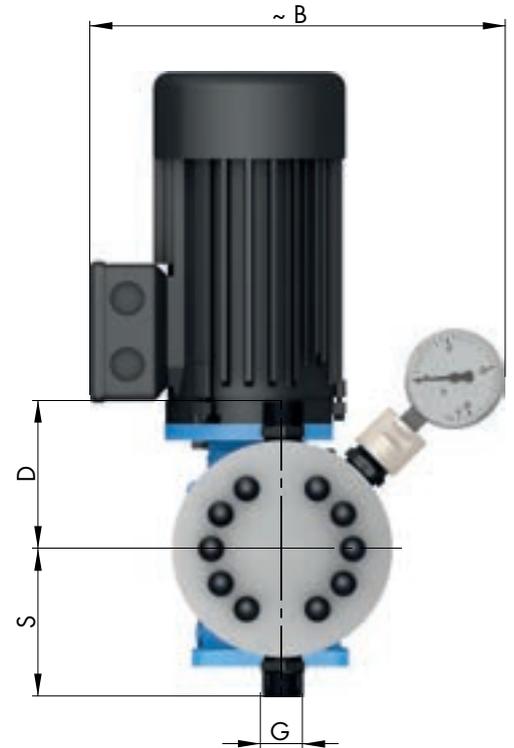
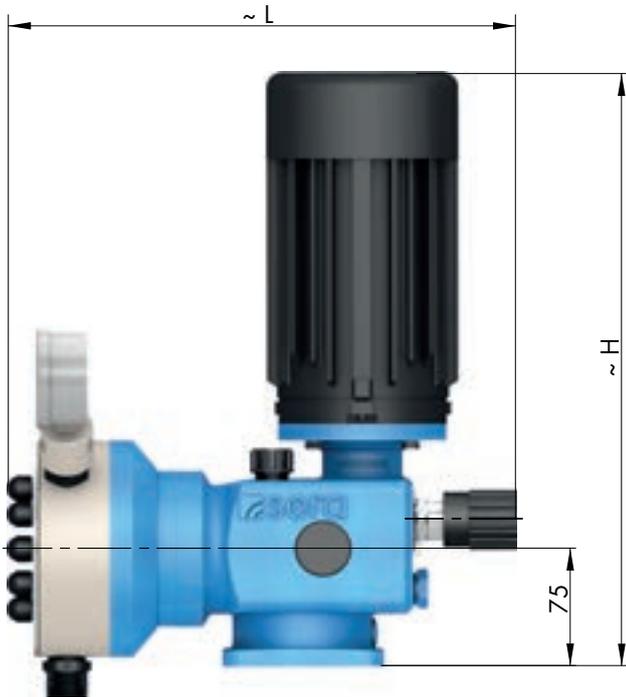
MULTI-LAYER DIAPHRAGM PUMP RF409.2-ML

| PUMP DATA | | | RF 409.2-... ML | | | | | | | |
|--|------------------|-----------------|-----------------|--------|--------|--------|--------|--------|--------|--------|
| | | | 11 ML | 17 ML | 30 ML | 45 ML | 72 ML | 110 ML | 150 ML | 220 ML |
| Permissible pressure p_{2max} at the pump outlet | bar | plastic | 10 | 10 | 10 | 10 | 10 | 10 | 4 | 4 |
| | | stainless steel | 20 | 20 | 16 | 16 | 10 | 10 | 4 | 4 |
| Nominal capacity QN at p_{2max} | l/h | 50 Hz | 0-11 | 0-17 | 0-30 | 0-45 | 0-72 | 0-110 | 0-150 | 0-220 |
| | | 60 Hz | 0-13 | 0-20 | 0-36 | 0-54 | 0-86 | 0-132 | 0-180 | 0-264 |
| Quantity per stroke | ml/stroke (100%) | | 1,8 | 1,8 | 5 | 5 | 12 | 12 | 25 | 24 |
| Max. suction height | mWC | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Min./max. permissible pressure at the pump inlet | bar | $p_{1min/max}$ | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 |
| Recommended nominal diameter of the connecting pipes | mm | DN | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| Nominal stroke frequency | 1/min | 50 Hz | 100 | 150 | 100 | 150 | 100 | 150 | 100 | 150 |
| | | 60 Hz | 120 | 180 | 120 | 180 | 120 | 180 | 120 | 180 |
| Weight approx. | kg | plastic | 14 | 14 | 15 | 15 | 16 | 16 | 18 | 18 |
| | | stainless steel | 16 | 16 | 17 | 17 | 18 | 18 | 24 | 24 |

| ELECTRICAL DATA | | RF 409.2-... ML |
|-------------------|-----|--------------------------|
| Power consumption | kW | 0,37 |
| Voltage | V | 230/400V 50Hz, 460V 60Hz |
| Frequency | Hz | 50/60 |
| Insulation class | ISO | F |
| Enclosure | IP | 55 |

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DIMENSIONS



| | | RF 409.2-... | | | | | | | |
|-------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---|---|
| SUCTION VALVES | | ...11 ML | ...17 ML | ...30 ML | ...45 ML | ...72 ML | ...110 ML | ...150ML | ...220 ML |
| DN | Nominal width | 5 | 5 | 8 | 8 | 8 | 8 | 20 ⁽¹⁾ | 20 ⁽¹⁾ |
| G | Connection thread | G ³ / ₄ | G ³ / ₄ | G ³ / ₄ | G ³ / ₄ | G ³ / ₄ | G ³ / ₄ | G1 ¹ / ₄ ⁽¹⁾ | G1 ¹ / ₄ ⁽¹⁾ |
| S | PP-FRP / PVDF-FRP | 83 | 83 | 90 | 90 | 94 | 94 | 127 | 127 |
| S | PVC-U | 88 | 88 | 93 | 93 | 97 | 97 | 124 | 124 |
| S | 1.4571 | 83 | 83 | 91 | 91 | 95 | 95 | 127 | 127 |
| PRESSURE VALVES | | | | | | | | | |
| DN | Nominal width | 5 | 5 | 8 | 8 | 8 | 8 | 20 ⁽¹⁾ | 20 ⁽¹⁾ |
| G | Connection thread | G ³ / ₄ | G ³ / ₄ | G ³ / ₄ | G ³ / ₄ | G ³ / ₄ | G ³ / ₄ | G1 ¹ / ₄ ⁽¹⁾ | G1 ¹ / ₄ ⁽¹⁾ |
| D | PP-FRP / PVDF-FRP | 83 | 83 | 90 | 90 | 94 | 94 | 127 | 127 |
| D | PVC-U | 88 | 88 | 100 | 100 | 104 | 104 | 143 | 143 |
| D | 1.4571 | 83 | 83 | 91 | 91 | 95 | 95 | 127 | 127 |
| MAX. TOTAL HEIGHT | | | | | | | | | |
| H | | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 |
| MAX. TOTAL WIDTH | | | | | | | | | |
| B | | 270 | 270 | 275 | 275 | 275 | 275 | 290 | 290 |
| MAX. TOTAL LENGTH | | | | | | | | | |
| L | | 323 | 323 | 323 | 323 | 327 | 327 | 344 | 344 |

(Measurements in mm)

⁽¹⁾ DN15 / G1 at valves of PVC-U

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TECHNICAL DATA

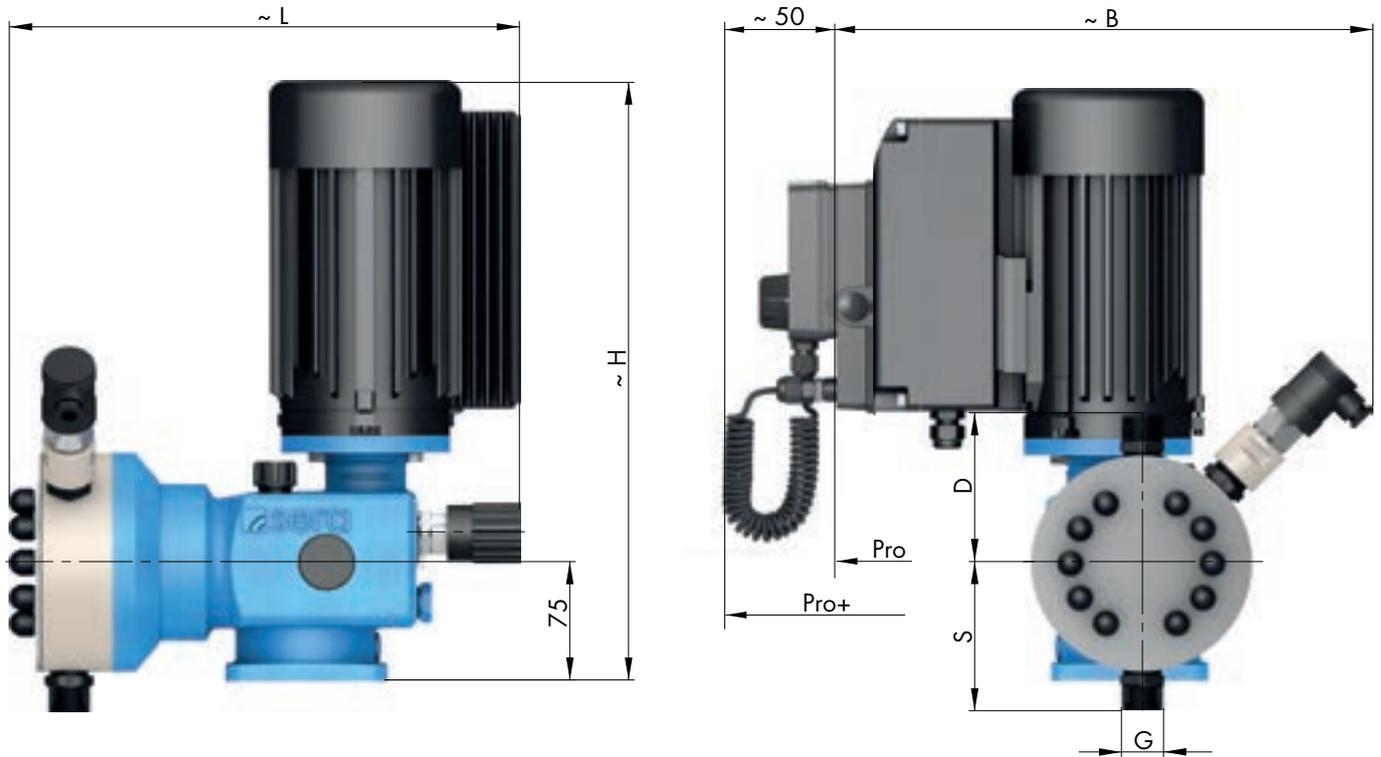
MULTI-LAYER DIAPHRAGM PUMP C409.2-ML PRO+

| PUMP DATA | | | C 409.2-... ML Pro/Pro+ | | | | | | | |
|--|------------------|-----------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|
| | | | 11 ML | 17 ML | 30 ML | 45 ML | 72 ML | 110 ML | 150 ML | 220 ML |
| Permissible pressure p_{2max} at the pump outlet | bar | plastic | 10 | 10 | 10 | 10 | 10 | 10 | 4 | 4 |
| | | stainless steel | 20 | 20 | 16 | 16 | 10 | 10 | 4 | 4 |
| Nominal capacity QN at p_{2max} | l/h | 50/60 Hz | 0-11 | 0-17 | 0-30 | 0-45 | 0-72 | 0-110 | 0-150 | 0-220 |
| Quantity per stroke | ml/stroke (100%) | | 1,8 | 1,8 | 5 | 5 | 5 | 12 | 25 | 24 |
| Max. suction height | mWC | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Min./max. permissible pressure at the pump inlet | bar | $p_{1min/max}$ | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 | -0,3/0 |
| Recommended nominal diameter of the connecting pipes | mm | DN | 10 | 10 | 10 | 10 | 10 | 15 | 15 | 15 |
| Nominal stroke frequency | 1/min | 50/60 Hz | 100 | 150 | 100 | 150 | 100 | 150 | 100 | 150 |
| Weight approx. | kg | plastic | 17,5 | 17,5 | 18 | 18 | 18,5 | 18,5 | 20 | 20 |
| | | stainless steel | 19 | 19 | 20 | 20 | 21,5 | 21,5 | 27 | 27 |

| ELECTRICAL DATA | | C 409.2-... ML Pro/Pro+ | |
|---|-------------------|--------------------------------|-----------------|
| | | 230 V, 50/60 Hz | 115 V, 50/60 Hz |
| Power consumption | kW | 0,37 | |
| Voltage | V | 210 - 250 | 100 - 125 |
| Frequency | Hz | 50/60 | |
| Inlet voltage, control input | V DC | 5...30 | |
| Minimum contact signal time | ms | 55 | |
| Analogue input resistance | Ω | 39 | |
| Digital output internal/external supply | | 20V DC, 30mA /... 30V DC, 30mA | |
| Recommended fuse | (circuit breaker) | C6A | C10A |
| Insulation class | ISO | F | |
| Enclosure | IP | 55 | |

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DIMENSIONS



| | | C 409.2-... | | | | | | | |
|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------------------|---------------------------------|
| SUCTION VALVES | | ...11 ML | ...17 ML | ...30 ML | ...45 ML | ...72 ML | ...110 ML | ...150ML | ...220 ML |
| DN | Nominal width | 5 | 5 | 8 | 8 | 8 | 8 | 20 ⁽¹⁾ | 20 ⁽¹⁾ |
| G | Connection thread | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G1 $\frac{1}{4}$ ⁽¹⁾ | G1 $\frac{1}{4}$ ⁽¹⁾ |
| S | PP-FRP / PVDF-FRP | 83 | 83 | 90 | 90 | 94 | 94 | 127 | 127 |
| S | PVC-U | 88 | 88 | 93 | 93 | 97 | 97 | 124 | 124 |
| S | 1.4571 | 83 | 83 | 91 | 91 | 95 | 95 | 127 | 127 |
| PRESSURE VALVES | | | | | | | | | |
| DN | Nominal width | 5 | 5 | 8 | 8 | 8 | 8 | 20 ⁽¹⁾ | 20 ⁽¹⁾ |
| G | Connection thread | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G $\frac{3}{4}$ | G1 $\frac{1}{4}$ ⁽¹⁾ | G1 $\frac{1}{4}$ ⁽¹⁾ |
| D | PP-FRP / PVDF-FRP | 83 | 83 | 90 | 90 | 94 | 94 | 127 | 127 |
| D | PVC-U | 88 | 88 | 100 | 100 | 104 | 104 | 143 | 143 |
| D | 1.4571 | 83 | 83 | 91 | 91 | 95 | 95 | 127 | 127 |
| MAX. TOTAL HEIGHT | | | | | | | | | |
| H | | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 |
| MAX. TOTAL WIDTH | | | | | | | | | |
| B | | 340 | 340 | 345 | 345 | 345 | 345 | 360 | 360 |
| MAX. TOTAL LENGTH | | | | | | | | | |
| L | | 323 | 323 | 323 | 323 | 327 | 327 | 344 | 344 |

(Measurements in mm)

⁽¹⁾ DN15 / G1 at valves of PVC-U

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TECHNICAL DATA

MULTI-LAYER DIAPHRAGM PUMP RF410.2-ML

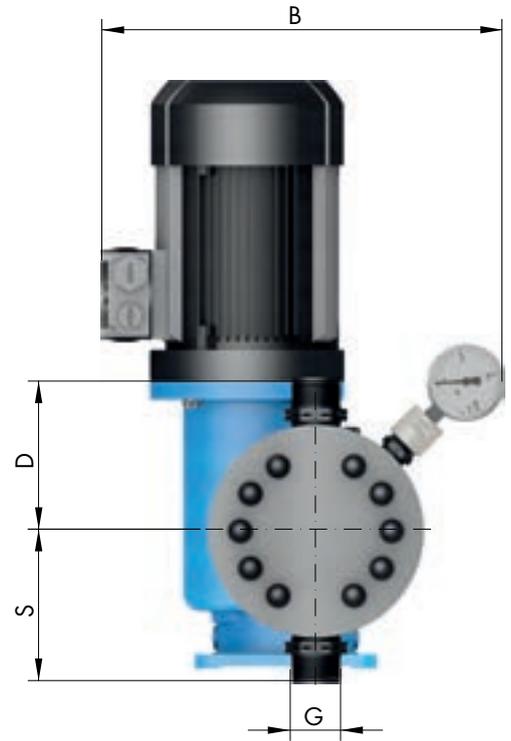
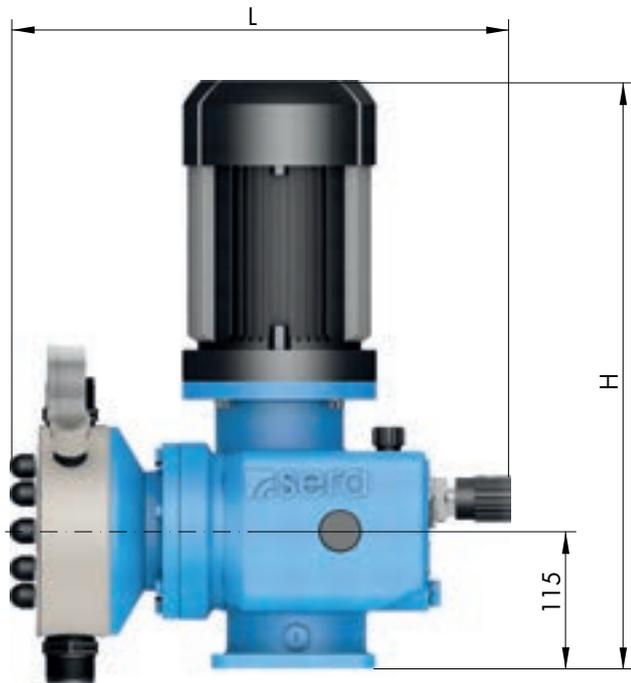
| PUMP DATA | | | RF 410.2-135 ML | RF 410.2-500 ML | RF 410.2-1200 ML |
|---|------------------|-----------------|-----------------|-----------------|------------------|
| Permissible pressure p_{2max} at the pump outlet | bar | plastic | 10 | 10 | 5 * |
| | | stainless steel | 15 | | |
| Nominal capacity QN at p_{2max} | l/h | 50 Hz | 0-135 | 0-500 | 0-1200 |
| | | 60 Hz | 0-162 | 0-600 | 0-1440 |
| Quantity per stroke | ml/stroke (100%) | | | | |
| Max. suction height | mWC | | 3 | 3 | 3 |
| Min./max. permissible pressure at the pump inlet | bar | $P_{1min/max}$ | -0,3/0 | -0,3/0 | -0,3/0 |
| Recommended nominal diameter DN of the connecting pipes | mm | | 15 | 15 | 20 |
| Nominal stroke frequency | 1/min | 50 Hz | 97 | 97 | 97 |
| | | 60 Hz | 116 | 116 | – |
| Weight approx. | kg | plastic | 36 | 38 | 41 |
| | | stainless steel | 43 | 46 | 57 |

* at 60 Hz is the permissible pressure 3,5 bar

| ELECTRICAL DATA | | RF 410.2-135 ML | RF 410.2-500 ML | RF 410.2-1200 ML |
|-------------------|-----|--------------------------|-----------------|------------------|
| Power consumption | kW | 0,75 | 1,1 | 1,5 |
| Nominal voltage | V | 230/400V 50Hz, 460V 60Hz | | |
| Frequency | Hz | 50/60 | | |
| Insulation class | ISO | F | | |
| Enclosure | IP | 55 | | |

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DIMENSIONS



| SUCTION VALVES | RF 410.2-135 ML | RF 410.2-500 ML | RF 410.2-1200 ML |
|----------------------------|--------------------|--------------------|------------------|
| DN Nominal width | 20 ⁽¹⁾ | 20 ⁽¹⁾ | 20 |
| G Connection thread | G1¼ ⁽¹⁾ | G1¼ ⁽¹⁾ | G1¼ |
| S PP-FRP / PVDF-FRP | 127 | 138 | 162 |
| S PVC-U | 124 | 132 | 172 |
| S 1.4571 | 127 | 138 | 162 |
| PRESSURE VALVES | | | |
| DN Nominal width | 20 ⁽¹⁾ | 20 ⁽¹⁾ | 20 |
| G Connection thread | G1¼ ⁽¹⁾ | G1¼ ⁽¹⁾ | G1¼ |
| D PP-FRP / PVDF-FRP | 127 | 138 | 162 |
| D PVC-U | 143 | 151 | 192 |
| D 1.4571 | 127 | 138 | 162 |
| MAX. TOTAL HEIGHT | | | |
| H | 530 | 540 | 580 |
| MAX. TOTAL WIDTH | | | |
| B | 335 | 350 | 365 |
| MAX. TOTAL LENGTH | | | |
| L | 425 | 415 | 460 |

(Measurements in mm)

⁽¹⁾DN15 / G1 at valves of PVC-U

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TECHNICAL DATA

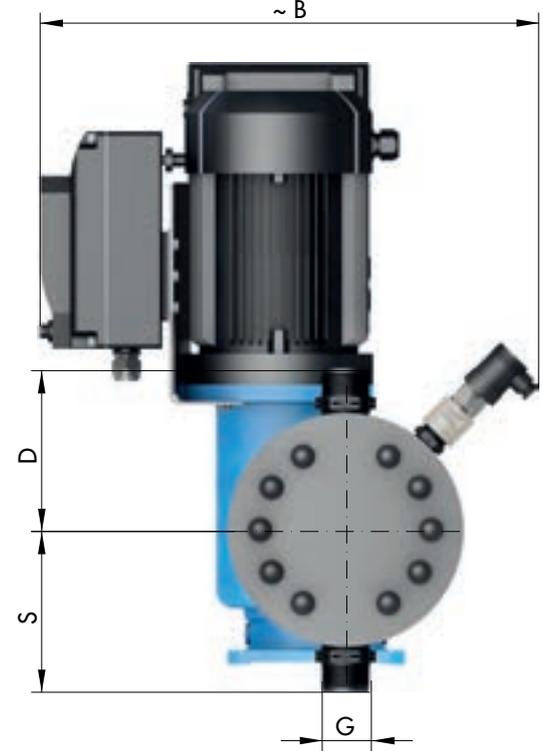
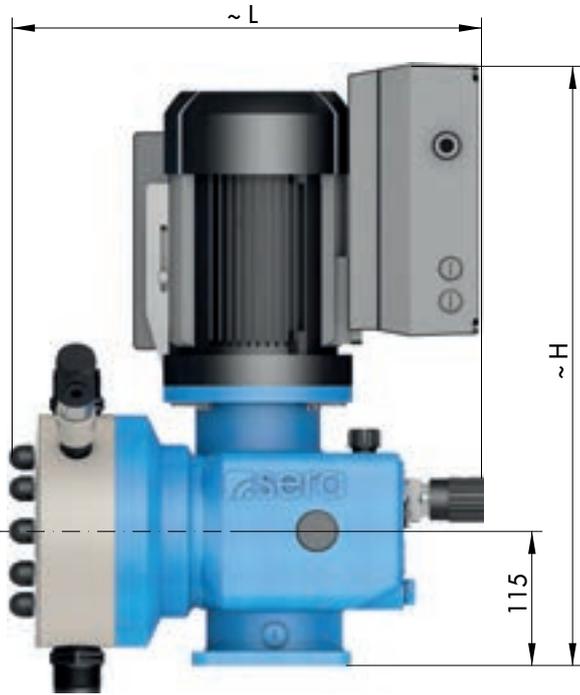
MULTI-LAYER DIAPHRAGM PUMP C410.2-ML

| PUMP DATA | | | C 410.2-135 ML | C 410.2-500 ML | C 410.2-1200 ML |
|---|------------------|-----------------|----------------|----------------|-----------------|
| Permissible pressure p_{2max} at the pump outlet | bar | plastic | 10 | 10 | 5 |
| | | stainless steel | 15 | | |
| Nominal capacity QN at p_{2max} | l/h | 50/60 Hz | 0-135 | 0-500 | 0-1200 |
| Quantity per stroke | ml/stroke (100%) | | 23 | 85 | 206 |
| Max. suction height | mWC | | 3 | 3 | 3 |
| Min./max. permissible pressure at the pump inlet | bar | $p_{1min/max}$ | -0,3/0 | -0,3/0 | -0,3/0 |
| Recommended nominal diameter DN of the connecting pipes | mm | | 15 | 15 | 20 |
| Nominal stroke frequency | 1/min | 50/60 Hz | 97 | 97 | 97 |
| Weight approx. | kg | plastic | 40 | 43 | 45 |
| | | stainless steel | 42 | 45 | 47 |

| ELECTRICAL DATA | | C 410.2-135 ML C 410.2-500 ML | C 410.2-1200 ML |
|---|-------------------|---------------------------------------|-----------------|
| Power consumption | kW | 0,75 | 1,5 |
| Voltage | V | 3 ~ 380 - 420 | |
| Frequency | Hz | 50/60 | |
| Inlet voltage, control input | V DC | 5...30 | |
| Minimum contact signal time | ms | 55 | |
| Analogue input resistance | Ω | 100 | |
| Digital output internal/external supply | | max. 15V DC, 50mA /max. 30V DC, 350mA | |
| Recommended fuse | (circuit breaker) | C10A | |
| Insulation class | ISO | F | |
| Enclosure | IP | 55 | |

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DIMENSIONS

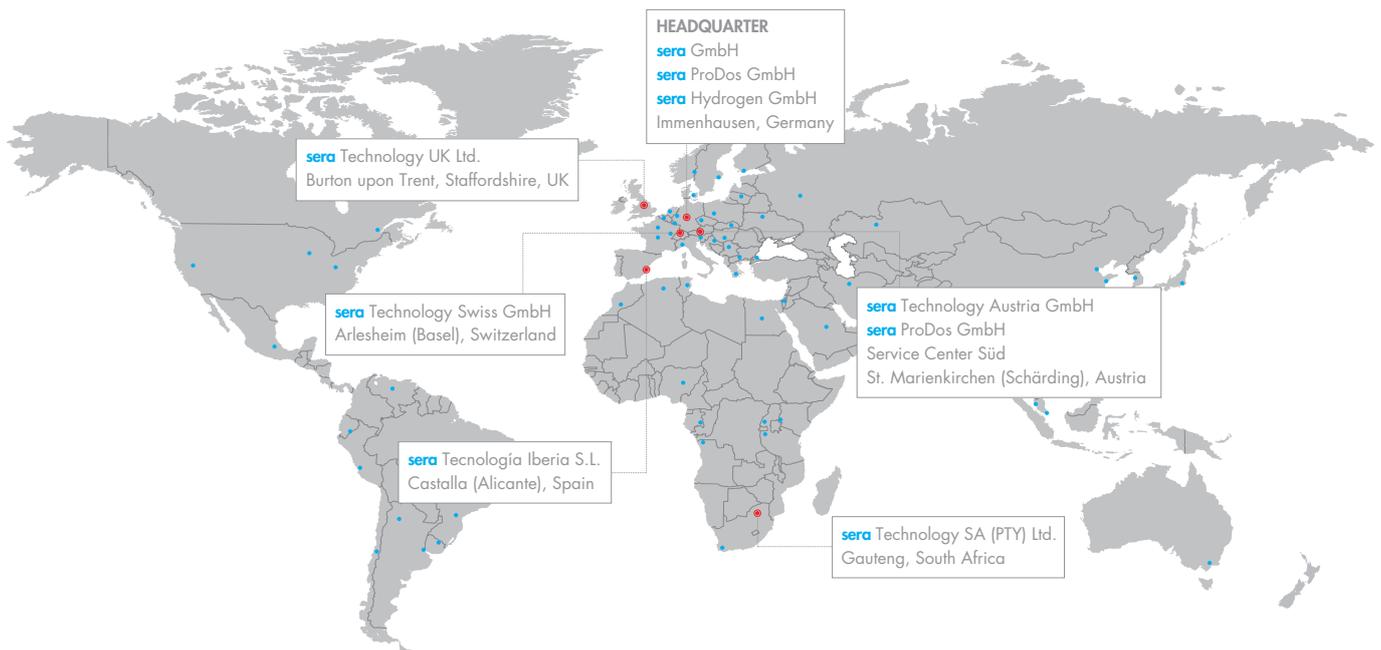


| SUCTION VALVES | C 410.2-135 ML | C 410.2-500 ML | C 410.2-1200 ML |
|----------------------------|--------------------|--------------------|-----------------|
| DN Nominal width | 20 ⁽¹⁾ | 20 ⁽¹⁾ | 20 |
| G Connection thread | G1¼ ⁽¹⁾ | G1¼ ⁽¹⁾ | G1¼ |
| S PP-FRP / PVDF-FRP | 127 | 138 | 162 |
| S PVC-U | 124 | 132 | 172 |
| S 1.4571 | 127 | 138 | 162 |
| PRESSURE VALVES | | | |
| DN Nominal width | 20 ⁽¹⁾ | 20 ⁽¹⁾ | 20 |
| G Connection thread | G1¼ ⁽¹⁾ | G1¼ ⁽¹⁾ | G1¼ |
| D PP-FRP / PVDF-FRP | 127 | 138 | 162 |
| D PVC-U | 143 | 151 | 192 |
| D 1.4571 | 127 | 138 | 162 |
| MAX. TOTAL HEIGHT | | | |
| H | 530 | 530 | 580 |
| MAX. TOTAL WIDTH | | | |
| B | 430 | 440 | 455 |
| MAX. TOTAL LENGTH | | | |
| L | 425 | 415 | 460 |

(Measurements in mm)

⁽¹⁾DN15 / G1 at valves of PVC-U

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