

Controllable Diaphragm pumps

C 409.2



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Seybert & Rahier

The new 4 C-designs

intelligent, multifunctional, versatile, economic...

sera – controllable diaphragm pumps

of serie C 409.2 are electronically controlled dosing pumps which can be used for many applications. They are designed for industrial use and guarantee highest operational reliability. Performance range between 18 l/h and 350 l/h, pressures up to max. 10 bar.

Application

Liquid chemicals with aggressive, odorous, abrasive, radioactive, flammable, viscous or toxic properties.

...further features of performance

- Directly controllable (Profibus® - Interface)
- High dosing accuracy
- Long service life of diaphragms*
- High-quality materials
- Linear control characteristic
- Low maintenance
- Low operating expenses
- Leakagefree
- Unlimitedly safe to run dry
- Easy to operate
- Low weight

* compared to common conventional diaphragms



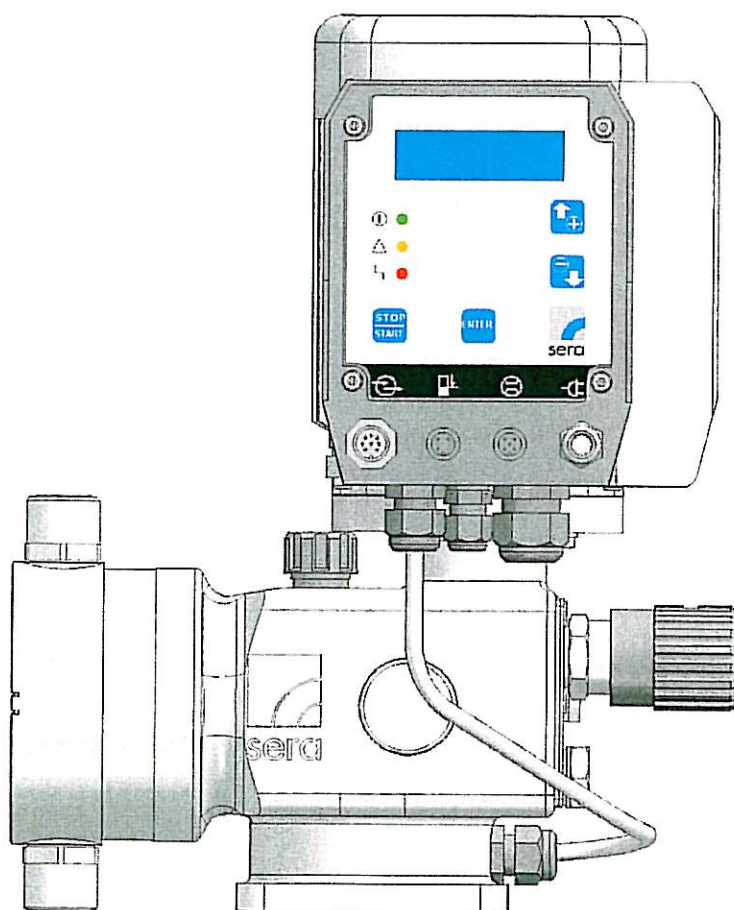
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Functions of the control electronics

Function

Manual operation
Manual stroke frequency adjustment
Profibus [®] DP - Interface
External START
External STOP
Pulse operation
Fractionation
Cycle delay
Analogue operation 0 – 20 mA
Analogue operation 4 – 20 mA
Analogue operation standardization
Charge manual
External charge START
Charge with timer
Speed control / Slow mode
3 LEDs for status indication
Multiline illuminated text display
Operating messages in plain text
Fault indication in plain text
Menu - driven parameterization
Flow indication
Calibration
Working hour meter
Password protection
4 - key operation
2 digital outputs (SPS)
1 digital input (SPS or contact signal)
2 analogue / digital inputs (optionally reversible)
Programmable input/output functions
Connection / evaluation 2-stage level monitoring
Connection / evaluation diaphragm rupture monitoring
Connection / evaluation flow monitoring
Connection / evaluation flow metering
Connection / evaluation vent valve
Operating panel for wall mounting (option)

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Technical data

Pump type	Nominal capacity		max. counter-pressure p_2 max.	max. suction height [mWS]	Inlet-/Outlet-size DN [mm]	Driving power (motor) P_M [kW]	Nominal stroke-frequency n_n 50/60 Hz [min ⁻¹]
	50/60Hz	Q_{max}					
	[l/h]	[ml/Stroke]	[bar]				
C 409.2 – 18e	0 – 18	0 – 3,0	10	3	10	0,18	100
C 409.2 – 25e	0 – 25	0 – 3,0	10	3	10	0,18	150
C 409.2 – 50e	0 – 50	0 – 8,3	10	3	10	0,18	100
C 409.2 – 75e	0 – 75	0 – 8,3	10	3	15	0,37	150
C 409.2 – 90e	0 – 90	0 – 15	8	3	15	0,37	100
C 409.2 – 115e	0 – 115	0 – 19,8	4	3	15	0,37	100
C 409.2 – 140e	0 – 140	0 – 15	8	3	15	0,37	150
C 409.2 – 180e	0 – 180	0 – 19,8	4	3	15	0,37	150
C 409.2 – 250e	0 – 250	0 – 38,8	3	3	15	0,37	100
C 409.2 – 350e	0 – 350	0 – 38,8	3	3	15	0,37	150

Electrical data (electronics)

- Noise level
(Noise level measurement
DIN 45635-01-K13): 60 +/- 5 dB (A)
- Weight: 13 - 20 kg
- Permitted ambient temperature: +2°C to +40°C
- Permitted humidity: approx. 90%
- Operating voltage: 100 – 240 V (50/60 Hz)
- Inlet voltage control input: 5...30 V DC
- Minimale contact signal time: 50 ms
- Analogue input resistance: 100 Ω
- Digital Output: PNP, 15...30 V DC, 250 mA
- Pump protection type: IP 65
- Insulation class: F

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Materials

The high quality of the materials ensures continuous and reliable operation. We have the optimum material for each requirement.

Pump body and valves:

PVC, PP, PVDF, 1.4571, Titan,
PP-FRP, PVDF-FRP

Valve balls:

Glass, PTFE, 1.4401

Valve seals:

EPDM, FPM, FEP-covered

Working diaphragm:

EPDM, FPM, PTFE-faced

Intermediate diaphragm:

CSM, PTFE, PTFE-faced

* please ask us for any material required but not mentioned here

Drive

Each drive unit consists of a proven motor coupled to a stroke mechanism in a robust aluminium housing.

sera – aluminium housings can cope with even extreme operating conditions due to the thickness of the material and the surface treatment.

Accessories

- Control cable for input/output signals
- Diaphragm rupture monitoring
- Flow controller
- Flow meter
- Automatic vent valve

For the optimum installation of a dosing pump we can supply all the necessary accessories such as valves, pulsation dampers, injection fittings, dosing tanks, etc. against your order.



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Dosing
Feeding
Compressing

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