

Controllable diaphragm pumps

C 409.2, C 410.2



sera

Seybert & Rahier

The new 4 C-designs

intelligent, multifunctional, versatile, economic...

sera - controllable diaphragm pumps

of serie C 409.2 and C 410.2 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 0,8 l/h and 850 l/h, pressures up to max. 10 bar.

Application

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

...further features of performance

- directly controllable
- high dosing accuracy
- long service live 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



Controllable diaphragm pumps

C 409.2, C 410.2

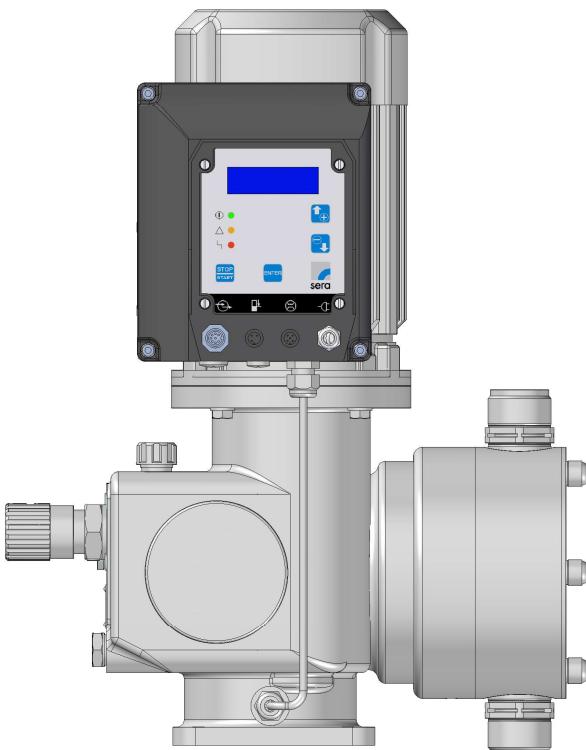


sera

Seybert & Rahier



Controllable Diaphragm pump, Type C 409.2



Controllable diaphragm pump, Type C 410.2

Functions of the control electronics

Function

- Manual operation
- Manual stroke frequency adjustment
- Profibus DP – Interface ¹⁾
- External ON
- 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
- Operating panel for wall mounting (option)

¹⁾ available from 2nd quarter 2008

Controllable diaphragm pumps

C 409.2, C 410.2



sera

Seybert & Rahier

Technical data

Pump type	Nominal capacity 50/60Hz [l/h]	Q _{stroke} [ml/Stroke]	max. counter-pressure p ₂ max. [bar]	max. suction height [mWC]	Inlet-/Outlet-size DN [mm]	Driving power (motor) P _M [kW]	Nominal stroke-frequency 50/60Hz [l/h]
C 409.2							
C 409.2 – 0,8e	0 – 0,8	0 – 0,13	10	2	5	0,18	100
C 409.2 – 1,6e	0 – 1,6	0 – 0,27	10	3	5	0,18	100
C 409.2 – 2,4e	0 – 2,4	0 – 0,27	10	3	5	0,18	150
C 409.2 – 4,0e	0 – 4,0	0 – 0,67	10	3	5	0,18	100
C 409.2 – 7,0e	0 – 7,0	0 – 0,78	10	3	5	0,18	150
C 409.2 – 12e	0 – 12	0 – 3,0	10	3	10	0,18	67
C 409.2 – 18e	0 – 18	0 – 3,0	10	3	10	0,18	100
C 409.2 – 25e	0 – 25	0 – 2,8	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 – 15,0	8	3	15	0,37	100
C 409.2 – 115e	0 – 115	0 – 19,2	4	3	15	0,37	100
C 409.2 – 140e	0 – 140	0 – 15,6	8	3	15	0,37	150
C 409.2 – 180e	0 – 180	0 – 20,0	4	3	15	0,37	150
C 409.2 – 250e	0 – 250	0 – 41,7	3	3	15	0,37	100
C 409.2 – 350e	0 – 350	0 – 38,9	3	3	15	0,37	150
C 410.2							
C 410.2 – 260e	0 – 260	0 – 48	4	5	15	0,37	90
C 410.2 – 510e	0 – 510	0 – 94	3	5	15	0,37	90
C 410.2 – 850e	0 – 850	0 – 157	2	3	20	0,37	90

Electrical data (electronics)

- Operating voltage: 115* or 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,
internal supply: max. 15V DC, 50 mA
external supply: max. 30V DC, 350 mA
- Pump protection type: IP 65
- Insulation class: F

* Series C 410.2 is not available for 115V-voltage

Controllable diaphragm pumps

C 409.2, C 410.2



sera

Seybert & Rahier

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
- Diaphragm rupture monitoring
- Flow controller
- Flow meter

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.

sera

Dosing
Feeding
Compressing

Seybert & Rahier
GmbH + Co. Betriebs - KG

sera-Straße 1 · D-34376 Immenhausen
Tel. + 49 56 73 99 90
Fax. + 49 56 73 99 91 55
e-mail: info@sera-web.de
Internet: www.sera-web.de

Local sera - Representative:

104/04 en 11/07

Subject to technical modifications!

