

SERIES 4 DIAPHRAGM PUMPS



INSPIRED. SOLUTIONS. FOR CUSTOMERS.

DIAPHRAGM PUMPS - ALLROUNDERS

sera diaphragm pumps are oscillating displacement pumps for dosing liquids. The medium to be pumped is separated from the drive by a diaphragm. This is thus protected from damaging influences of the medium.

They are used everywhere where leak-free and exact dosing is important, such as for aggressive, odorous, abrasive, radioactive, flammable, viscous or toxic media.

Delivery rate adjustment by means of stroke frequency adjustment using external frequency converter and manual stroke length adjustment for optimal adaptation to every requirement.

APPLICATIONS

- Beverage industry
- Food industry
- Manufacture of paints and varnishes
- Power plants
- Water treatment
- Shipbuilding
- Electroplating
- Textile industry
- Waste water treatment

AUTOMATIC DELIVERY RATE ADJUSTMENT

- Three-phase motors suitable for frequency converter operation for stroke frequency change using an external frequency converter
- Actuators with position controllers for automatic stroke length change

OVERVIEW OF ADVANTAGES

- High dosing accuracy
- Long diaphragm service lives
- Linear control characteristics
- Leak-free
- Low-maintenance
- ATEX-compliant versions are available (not in stock)
- Unlimited dry running safety

OPTIONAL VERSIONS

- Diaphragm monitoring
- Suction height 8 mWC
- Controllable variant (C version)



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, PP-GFP, PVDF-GFP,
1.4571

VALVE BALLS

PTFE, 1.4401

VALVE SEALS

EPDM, FPM, FEP-coated

DRIVE DIAPHRAGMS

PTFE-coated

MANUAL VENTILATION VALVE (2,4e)

PP-GFP, PVDF-GFP

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.

The flow rate is constant or continuously adjustable. This is done manually by changing the stroke length for the controllable version. The delivery rate can be adjusted automatically using the following options:

- Three-phase motors suitable for frequency converter operation for stroke frequency change using an external frequency converter
- Actuators with position controllers for automatic stroke length change

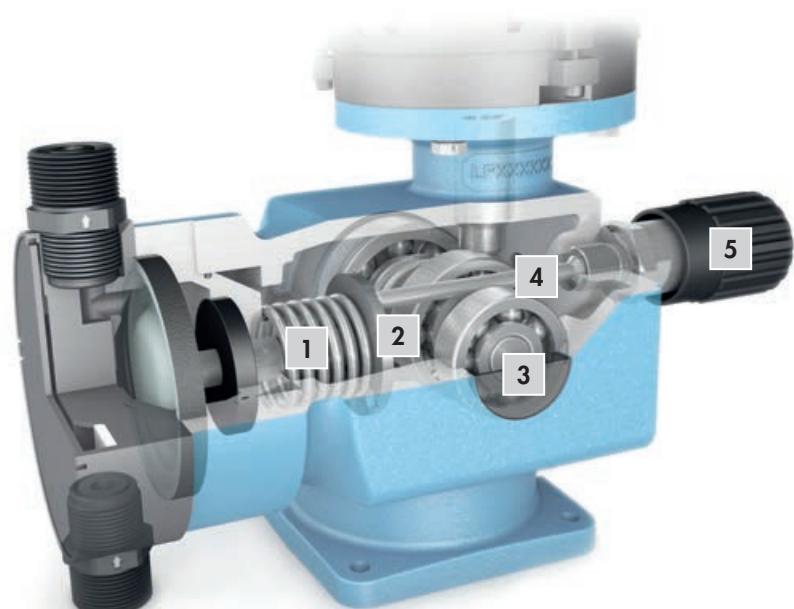
SPECIAL VERSIONS

We provide the individual solution for special dosing tasks:

Among other things, pump bodies with special nominal diameters, heating equipment, valves as double valves, with spring loading, with elastic ball seats, rinsing equipment for interval or final rinsing for prevention of deposits in the pump body, attachment of stroke counter, diaphragm rupture monitoring, special materials such as titanium or Hastelloy, design that can be cleaned.

ACCESSORIES

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



1	Return spring
2	Push rod plate
3	Eccentric shaft
4	Adjusting spindle
5	Adjusting wheel

ADDITIONAL FEATURES



PROFIBUS DP 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.

CONTROL ELECTRONICS

The control electronics have many advantages such as the possibility of external control using pulse or analogue signals, batch control or continuous monitoring of the diaphragm state, the flow rate and tank level.



FREQUENCY CONVERTER

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

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.



ADDITIONAL FEATURES

PUMP BODY WITH INTEGRATED PRESSURE RELIEF VALVE

The integrated diaphragm pressure relief valve protects the pump from unacceptable overpressure when the pressure pipe is closed. It can be used for low-viscosity media without solids for a maximum flow rate of 570 l/h.



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 the evaluation unit.

DIAPHRAGM MONITORING

The conductive diaphragm monitoring is performed using an electrode in combination with an evaluation unit. In the case of the controllable pumps, the electrode is directly connected to the control electronics and thus constantly monitored. In contrast, a relay is needed for the evaluation for the non-controllable pumps.



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.

TECHNICAL DATA

DIAPHRAGM PUMP RF409.2 (<25 L/H)

PUMP DATA		RF 409.2-...					
(* 8mWS = performance losses of nominal capacity QN of 20-25%)		1,6e	2,4e	7,0e	12e	18e	25e
Permissible pressure $p_{2\max}$. bar		10	10	10	10	10	10
Nominal capacity QN at $p_{2\max}$.	l/h	50 Hz	0-1,6	0-2,4	0-7,0	0-12	0-18
		60 Hz	0-1,9	0-2,9	0-8,4	0-14,4	0-21,5
Quantity per stroke	ml/stroke (100%)		0,27	0,27	0,78	2,0	3,0
Max. suction height	mWC				3		3 (8*)
Min./max. permissible pressure at the pump inlet	bar	$p_{1\min/\max}$			-0,3/0		-0,3/0 (-0,8/0*)
Recomm. nominal diameter DN of the connecting pipes	mm		5	5	5	10	10
Nominal stroke frequency	1/min	50 Hz	100	150	150	100	100
		60 Hz	120	180	180	120	120
Weight approx.	kg	plastic	9	9	9	9	9
		stainless steel	10	10	10	10	10

ELECTRICAL DATA		RF409.2-1,6e ... RF409.2-25e
Power consumption	kW	0,18
Voltage	V	230/400V 50Hz, 460V 60Hz
Frequency	Hz	50/60
Insulation class	ISO	F
Enclosure	IP	55

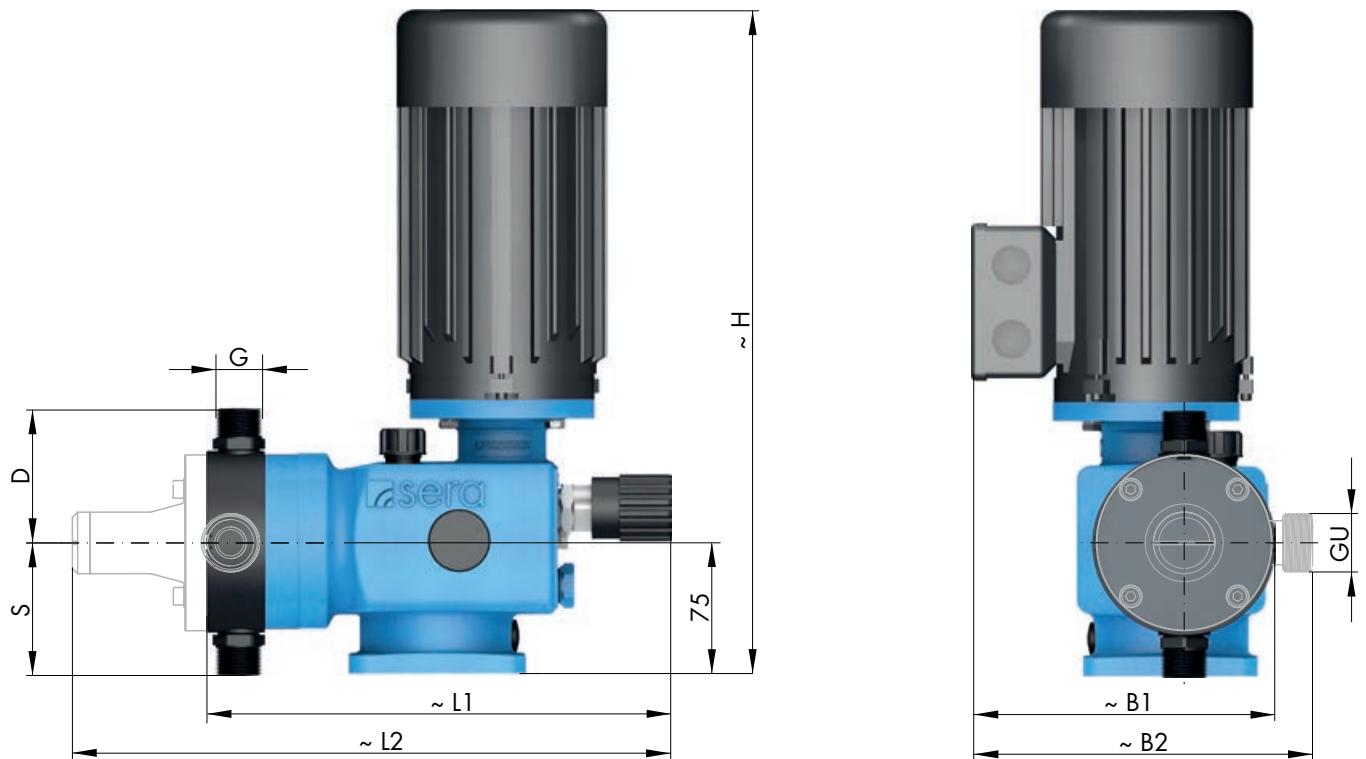
TECHNICAL DATA

DIAPHRAGM PUMP RF409.2 (>50 L/H)

PUMP DATA		RF 409.2-...							
(* 8mWS = performance losses of nominal capacity QN of 20-25%)		50e	75e	90e	115e	140e	180e	250e	350e
Permissible pressure $p_{2\max}$. bar		10	10	8	4	8	4	3	3
Nominal capacity QN at $p_{2\max}$.	l/h	50 Hz	0,50	0,75	0,90	0,115	0,140	0,180	0,250
		60 Hz	0,60	0,90	0,108	0,138	0,168	0,216	0,300
Quantity per stroke	ml/stroke (100%)	8,3	8,3	15,0	19,2	15,6	20,0	41,7	38,9
Max. suction height	mWC	3 (8 *)						3	
Min./max. permissible pressure at the pump inlet	bar	$p_{1\min/\max}$	-0,3/0 (-0,8/0)						-0,3/0
Recomm. nominal diameter DN of the connecting pipes	mm		10	15	15	15	15	15	15
Nominal stroke frequency	1/min	50 Hz	100	150	100	100	150	150	100
		60 Hz	120	180	120	120	180	180	120
Weight approx.	kg	plastic	9	9	11	10	11	10	13
		stainless steel	10	10	13	13	13	21	21

ELECTRICAL DATA		RF409.2-50e ... RF409.2-350e
Power consumption	kW	0,37
Voltage	V	230/400V 50Hz, 460V 60Hz
Frequency	Hz	50/60
Insulation class	ISO	F
Enclosure	IP	55

DIMENSIONS



DIMENSIONS

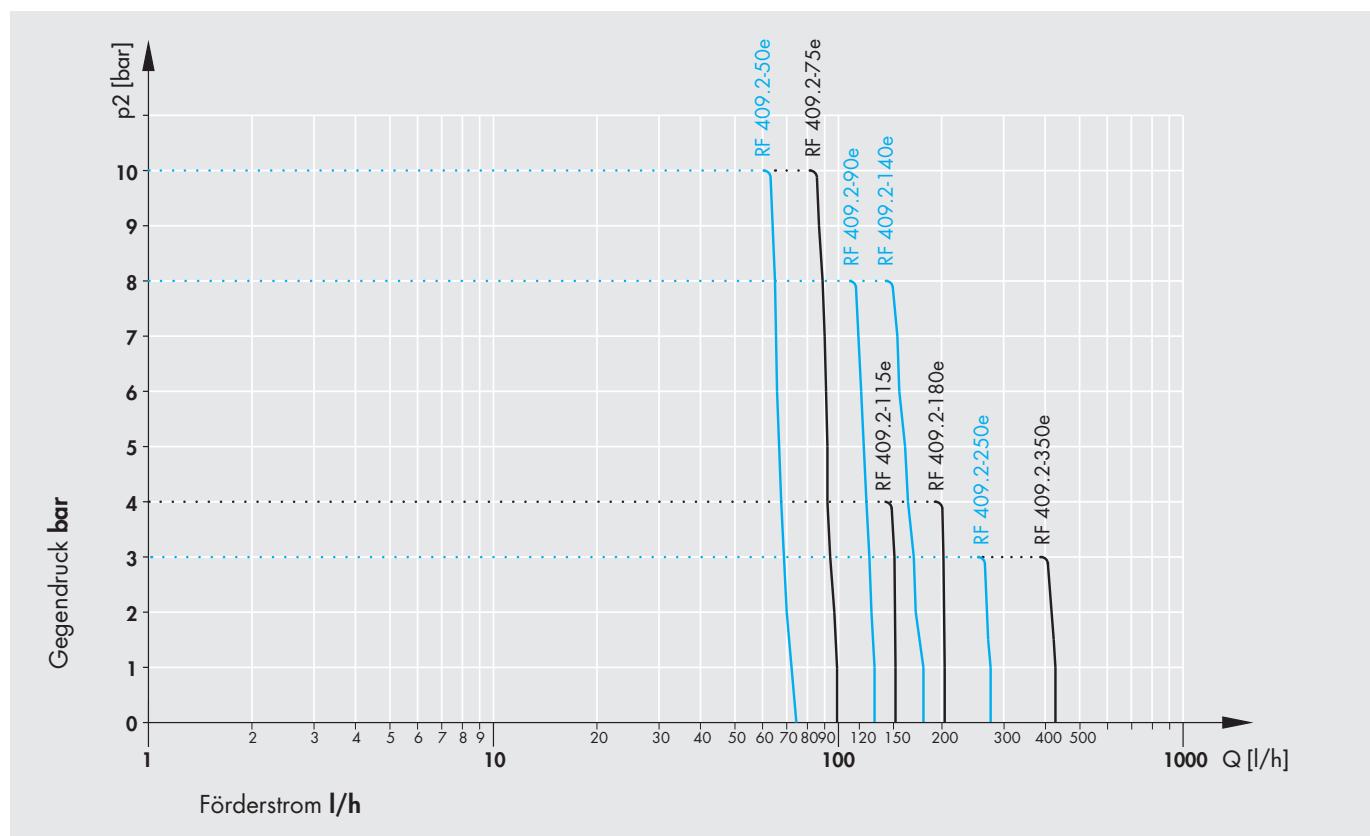
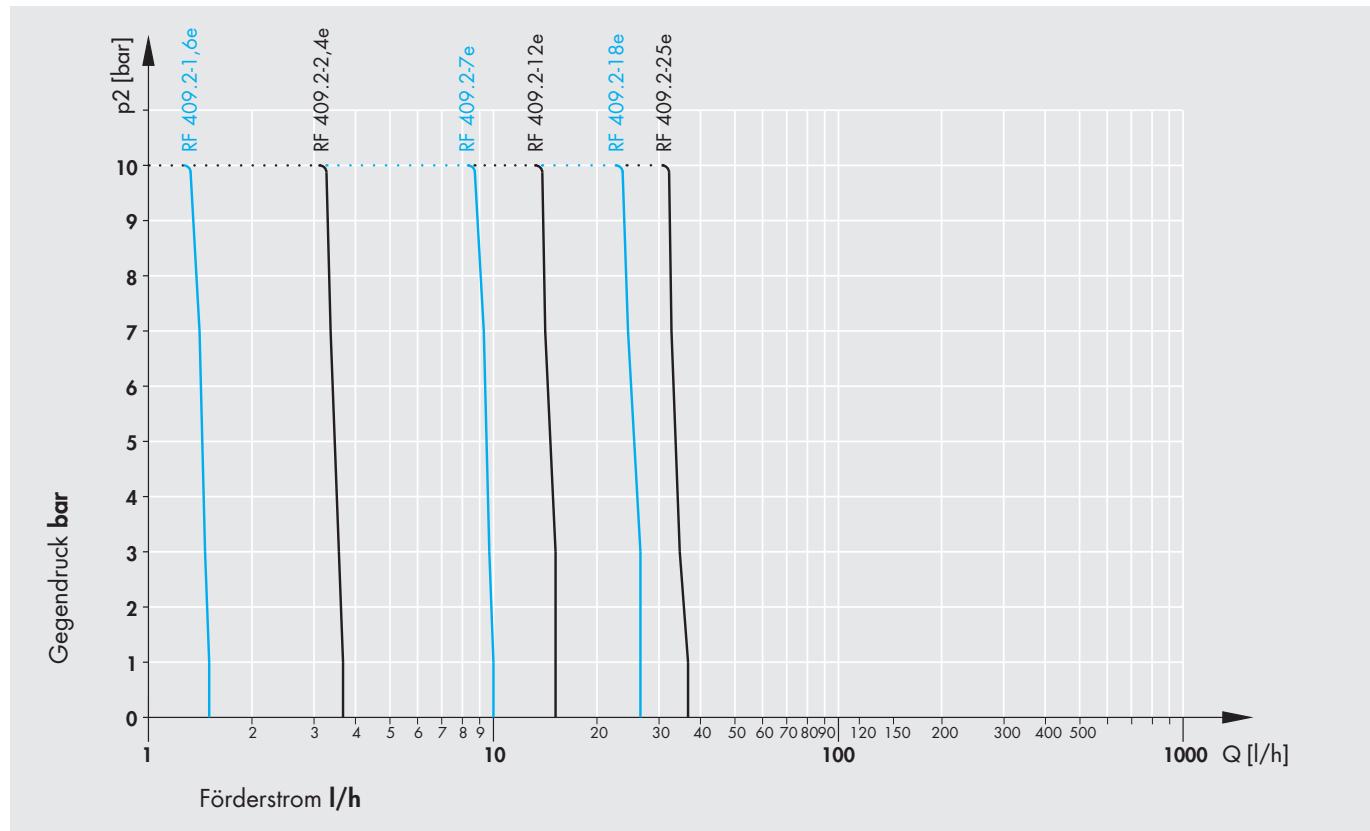
RF 409.2-...															
SUCTION VALVES		...1,6e	...2,4e	...7,0e	...-12e	...-18e	...-25e	...-50e	...-75e	...-90e	...-115e	...-140e	...-180e	...-250e	...-350e
DN Nominal width		5	5	5	5	8	8	8	8	8	8	8	8	20 ⁽¹⁾	20 ⁽¹⁾
G Connection thread		G ^{3/4}	G1 1/4 ⁽¹⁾	G1 1/4 ⁽¹⁾											
S PP-FRP / PVDF-FRP		80	80	56	56	56	56	69	69	76	76	76	76	122	122
S PP-FRP / PVDF-FRP ⁽²⁾		—	—	57	60	60	60	67	67	76	76	76	76	122	122
S PVC-U		70	70	62	65	63	63	70	70	78	78	78	78	119	119
S PVC-U ⁽²⁾		—	—	52	52	63	63	70	70	78	78	78	78	119	119
S 1.4571		70	70	57	61	61	61	68	68	76	76	76	76	122	122
S 1.4571 ⁽²⁾		—	—	57	61	61	61	68	68	76	76	76	76	122	122
PRESSURE VALVES															
DN Nominal width		5	5	5	5	8	8	8	8	8	8	8	8	20 ⁽¹⁾	20 ⁽¹⁾
G Connection thread		G ^{3/4}	G1 1/4 ⁽¹⁾	G1 1/4 ⁽¹⁾											
D PP-FRP / PVDF-FRP		80	80	64	64	64	64	69	69	76	76	76	76	122	122
D PP-FRP / PVDF-FRP ⁽²⁾		—	—	57	60	60	60	67	67	76	76	76	76	122	122
D PVC-U		70	70	62	65	70	70	77	77	85	85	85	85	138	138
D PVC-U ⁽²⁾		—	—	65	65	70	70	77	77	85	85	85	85	138	138
D 1.4571		70	70	57	61	61	61	68	68	76	76	76	76	122	122
D 1.4571 ⁽²⁾		—	—	57	61	61	61	68	68	76	76	76	76	122	122
MAX. TOTAL HEIGHT															
H		355	355	355	355	355	355	365	365	365	365	365	365	365	365
MAX. TOTAL WIDTH															
B1		170	170	170	170	170	170	185	185	185	185	185	185	220	220
B2 (with relief valve)		—	—	170	170	170	170	190	190	205	205	205	205	230	230
MAX. TOTAL LENGTH															
L1		310	310	285	285	285	285	295	295	300	300	300	300	355	355
L2 (with relief valve)		—	—	345	345	345	345	360	360	370	370	370	370	435	435
RELIEF VALVE CONNECTION															
GU		—	—	G ^{3/4}	G1	G1	G1	G1	G1 1/4 ⁽¹⁾	G1 1/4 ⁽¹⁾					

(Measurements in mm)

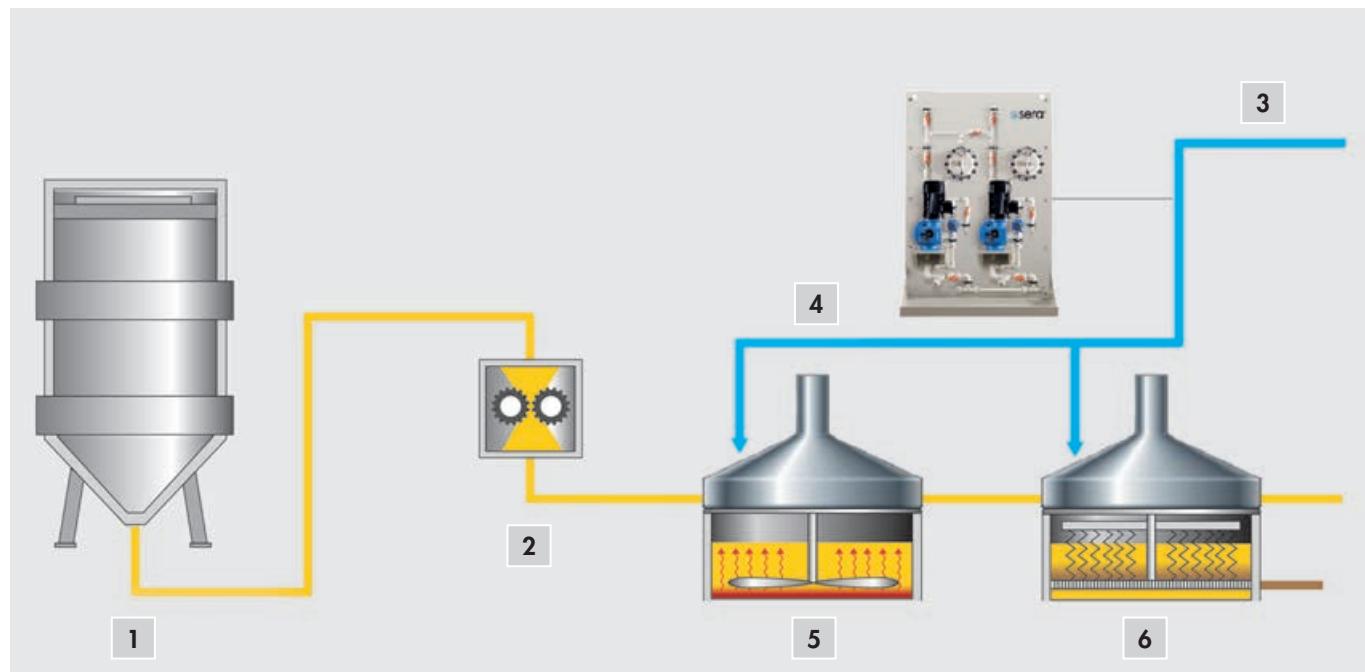
⁽¹⁾ DN15 / G1 at valves of PVC-U

⁽²⁾ Pump body with relief valve

CHARACTERISTIC CHARTS



APPLICATION EXAMPLE HARDENING OF BREWING WATER



- | | |
|---|--------------------|
| 1 | Malt silo |
| 2 | Malt mill |
| 3 | Fresh water supply |
| 4 | Water addition |
| 5 | Mash tun |
| 6 | Lauter tun |



TECHNICAL DATA

DIAPHRAGM PUMP C409.2 PRO+ (<25 L/H)

PUMP DATA		C 409.2... Pro+					
		1,6e	2,4e	7,0e	12e	18e	25e
Permissible pressure $p_{2\max}$ at the pump outlet	bar	10	10	10	10	10	10
Nominal capacity QN at $p_{2\max}$	l/h	50/60 Hz	0-1,6	0-2,4	0-7	0-12	0-18
Quantity per stroke	ml/stroke (100%)		0,27	0,27	0,78	2,0	3,0
Max. suction height	mWC				3		
Min./max. permissible pressure at the pump inlet	bar	$p_{1\min/\max}$			-0,3/0		
Recomm. nominal diameter DN of the connecting pipes	mm		10	10	10	10	10
Nominal stroke frequency	1/min	50/60 Hz	100	150	150	100	100
Weight approx.	kg	plastic	11	11	11	11	12,5
		stainless st.	13,5	13,5	13	13	13

ELECTRICAL DATA		C 409.2-1,6e Pro+ ... C 409.2-25e Pro+	230 V, 50/60 Hz	115 V, 50/60 Hz
Power consumption	kW		0,18	
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	

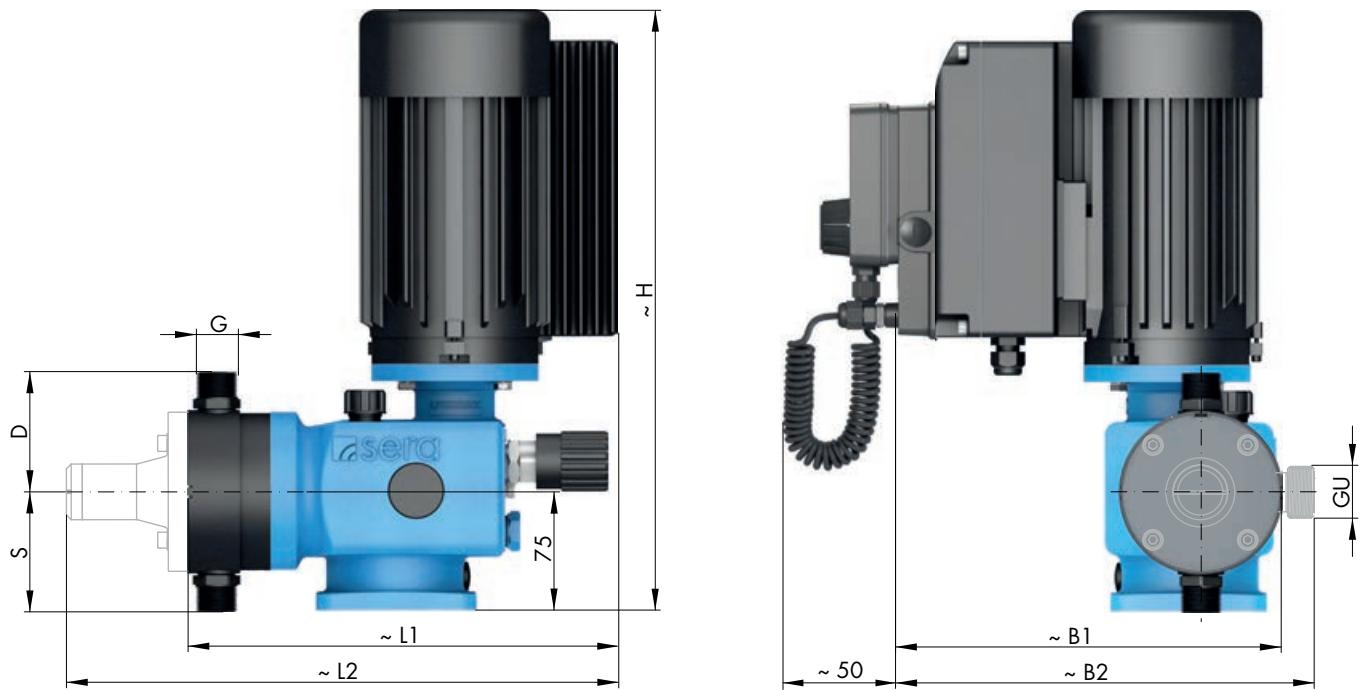
TECHNICAL DATA

DIAPHRAGM PUMP C409.2 PRO+ (>50 L/H)

PUMP DATA		C 409.2-... Pro+							
(* 8mWS = performance losses of nominal capacity QN of 20-25%)		50e	75e	90e	115e	140e	180e	250e	350e
Permissible pressure $p_{2\max}$. at the pump outlet	bar	10	10	8	4	8	4	3	3
Nominal capacity QN at $p_{2\max}$.	l/h	50/60 Hz	50	75	90	115	140	180	250
Quantity per stroke	ml/stroke	(100%)	8,3	8,3	15,0	19,2	15,6	20,0	41,7
Max. suction height	mWC			3	(8*)			3	
Min./max. permissible pressure at the pump inlet	bar	$p_{1\min/\max}$		-0,3/0	(-0,8/0*)			-0,3/0	
Recomm. nominal diameter DN of the connecting pipes	mm		15	15	15	15	15	15	15
Nominal stroke frequency	1/min	50/60 Hz	150	150	100	100	150	150	100
Weight approx.	kg	plastic	8,5	8,5	10,5	9,0	10,5	9,0	13,0
		stainless st.	14	16	16	16	16	16	24
									24

ELECTRICAL DATA		C 409.2-50e Pro+ ... C 409.2-350e Pro+	
		230 V, 50/60 Hz	115 V, 50/60 Hz
Power consumption	kW	(...50e = 0,18 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	

DIMENSIONS



DIMENSIONS

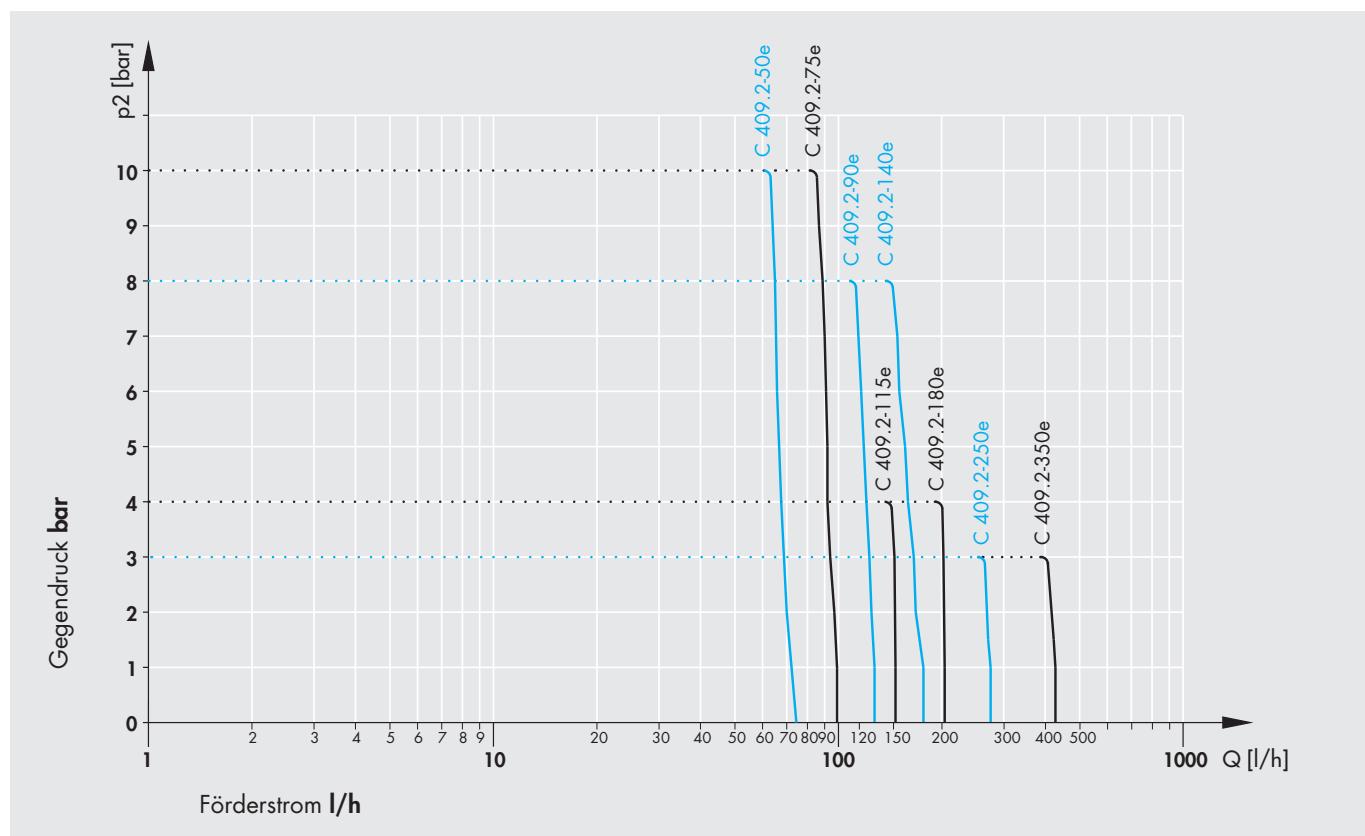
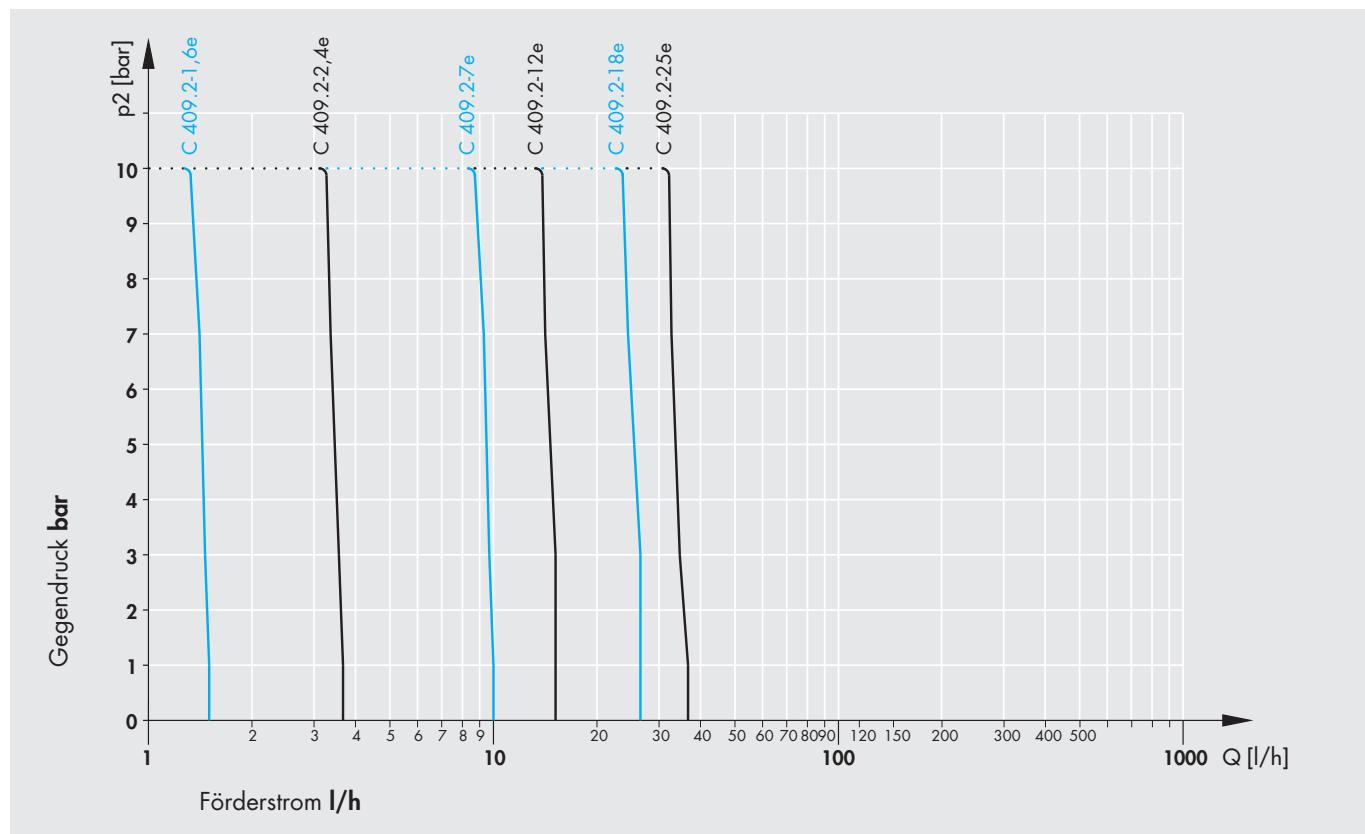
C 409.2-...															
SUCTION VALVES		...1,6e	...2,4e	...7,0e	...12e	...18e	...25e	...50e	...75e	...90e	...115e	...140e	...180e	...250e	...350e
DN Nominal width		5	5	5	5	8	8	8	8	8	8	8	8	20 ⁽¹⁾	20 ⁽¹⁾
G Connection thread		G ^{3/4}	G1 1/4 ⁽¹⁾	G1 1/4 ⁽¹⁾											
S PP-FRP / PVDF-FRP		80	80	56	56	56	56	69	69	76	76	76	76	122	122
S PP-FRP / PVDF-FRP ⁽²⁾		—	—	57	60	60	60	67	67	76	76	76	76	122	122
S PVC-U		70	70	62	65	63	63	70	70	78	78	78	78	119	119
S PVC-U ⁽²⁾		—	—	52	52	63	63	70	70	78	78	78	78	119	119
S 1.4571		70	70	57	61	61	61	68	68	76	76	76	76	122	122
S 1.4571 ⁽²⁾		—	—	57	61	61	61	68	68	76	76	76	76	122	122
PRESSURE VALVES															
DN Nominal width		5	5	5	5	8	8	8	8	8	8	8	8	20 ⁽¹⁾	20 ⁽¹⁾
G Connection thread		G ^{3/4}	G1 1/4 ⁽¹⁾	G1 1/4 ⁽¹⁾											
D PP-FRP / PVDF-FRP		80	80	64	64	64	64	69	69	76	76	76	76	122	122
D PP-FRP / PVDF-FRP ⁽²⁾		—	—	57	60	60	60	67	67	76	76	76	76	122	122
D PVC-U		70	70	62	65	70	70	77	77	85	85	85	85	138	138
D PVC-U ⁽²⁾		—	—	65	65	70	70	77	77	85	85	85	85	138	138
D 1.4571		70	70	57	61	61	61	68	68	76	76	76	76	122	122
D 1.4571 ⁽²⁾		—	—	57	61	61	61	68	68	76	76	76	76	122	122
MAX. TOTAL HEIGHT															
H		355	355	355	355	355	355	355	365	365	365	365	365	365	365
MAX. TOTAL WIDTH															
B1		250	250	250	250	250	250	250	260	260	260	260	260	295	295
B2 (with relief valve)		—	—	250	250	250	250	250	270	285	285	285	285	310	310
MAX. TOTAL LENGTH															
L1		310	310	285	285	285	285	295	295	300	300	300	300	355	355
L2 (with relief valve)		—	—	345	345	345	345	360	360	370	370	370	370	435	435
RELIEF VALVE CONNECTION															
GU		—	—	G ^{3/4}	G1	G1	G1	G1	G1 1/4 ⁽¹⁾	G1 1/4 ⁽¹⁾					

(Measurements in mm)

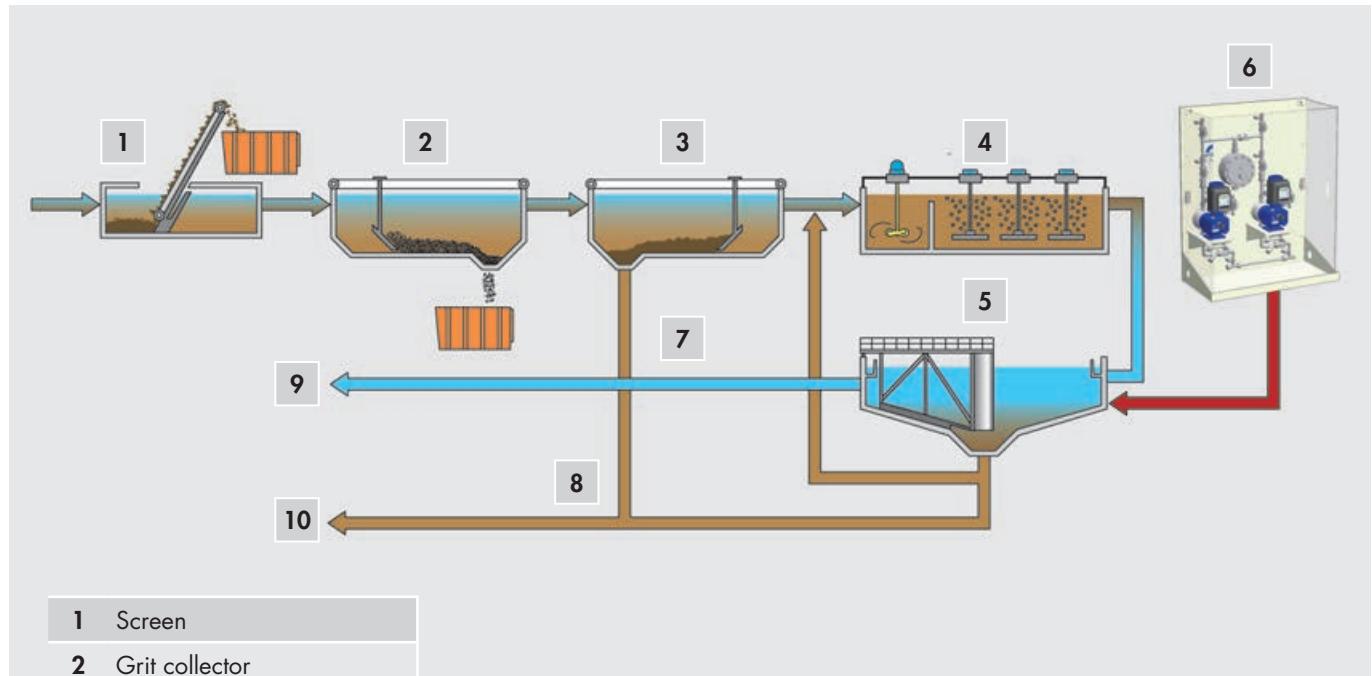
⁽¹⁾ DN15 / G1 at valves of PVC-U

⁽²⁾ Pump body with relief valve

CHARACTERISTIC CHARTS



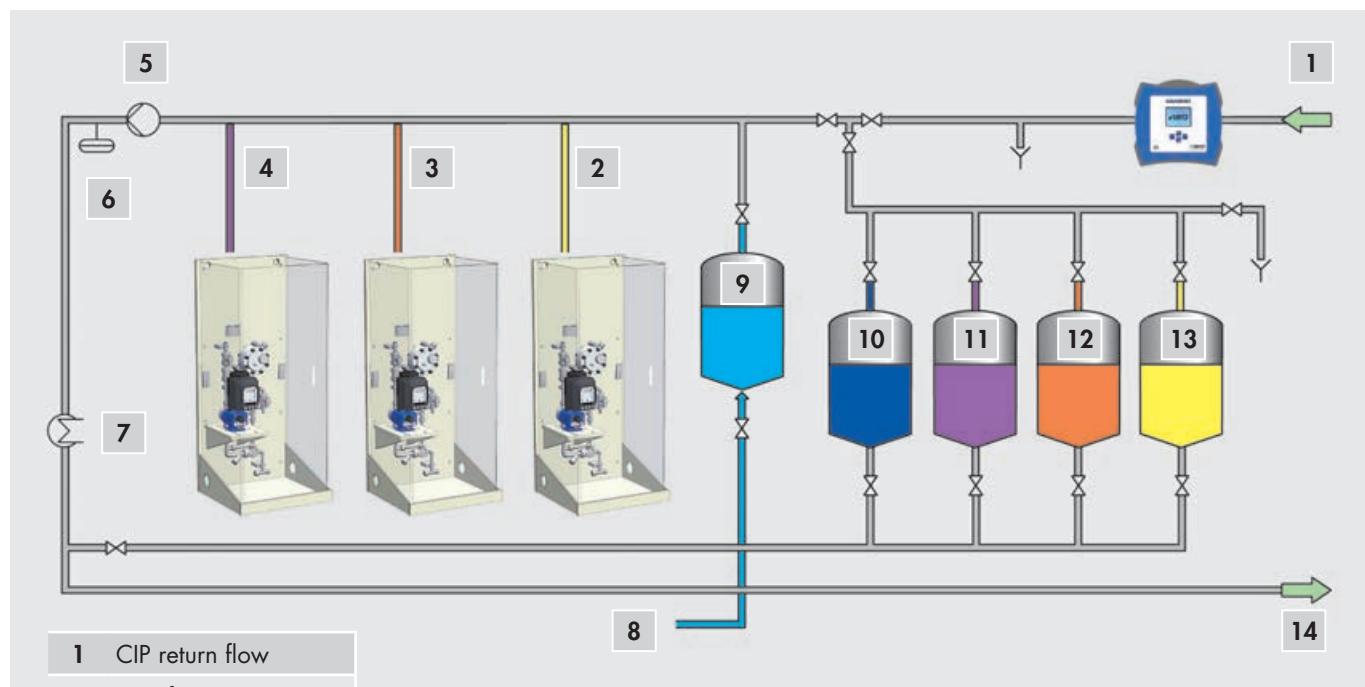
APPLICATION EXAMPLE WASTE WATER TREATMENT



- | | |
|----|---------------------------|
| 1 | Screen |
| 2 | Grit collector |
| 3 | Primary settlement tank |
| 4 | Aeration tank |
| 5 | Secondary settlement tank |
| 6 | FeCl ₃ dosing |
| 7 | Return sludge |
| 8 | Sludge |
| 9 | Waters |
| 10 | Digestion tower |



APPLICATION EXAMPLE DOSING OF CLEANING AGENTS



- | | |
|----|--------------------|
| 1 | CIP return flow |
| 2 | Disinfection |
| 3 | Acid |
| 4 | Alkaline solution |
| 5 | Flow pump |
| 6 | Volume meter |
| 7 | Heat exchanger |
| 8 | Fresh water supply |
| 9 | Fresh water |
| 10 | Stack water |
| 11 | Alkaline solution |
| 12 | Acid |
| 13 | Disinfection |
| 14 | CIP flow |



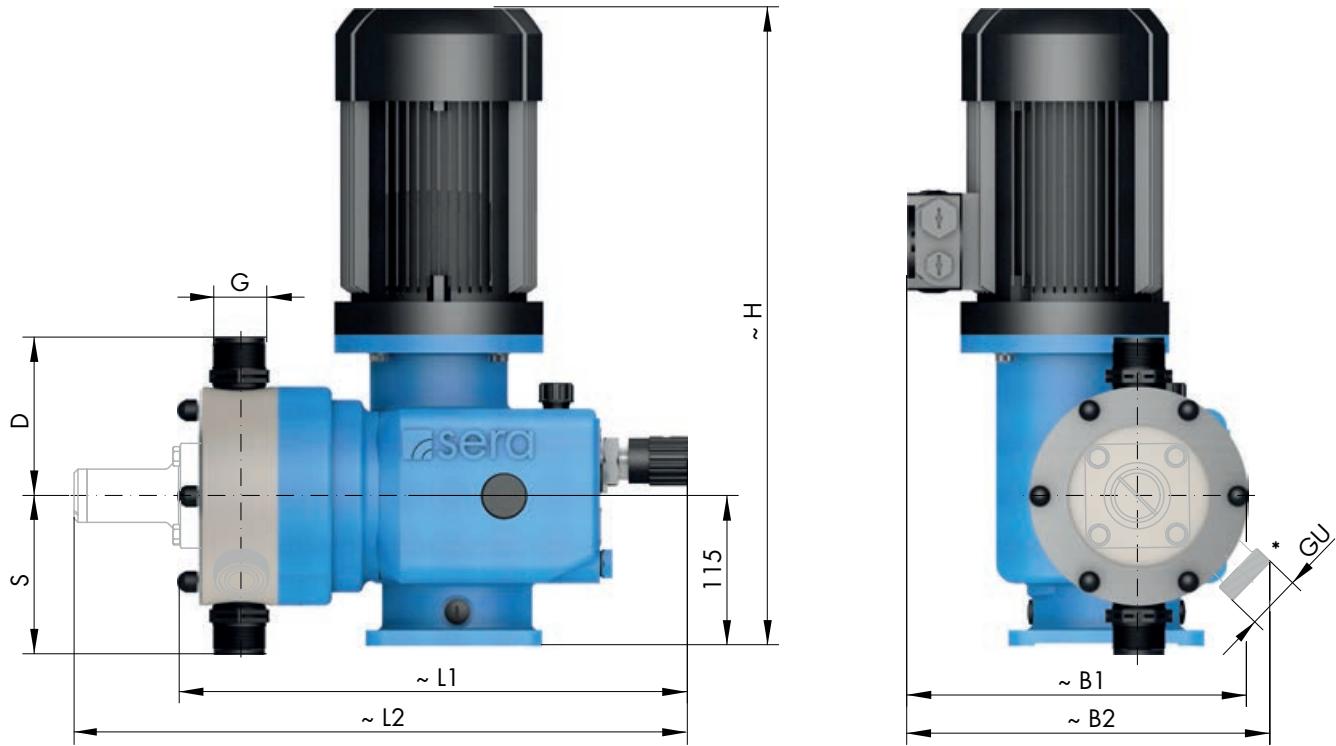
TECHNICAL DATA

DIAPHRAGM PUMP RF410.2

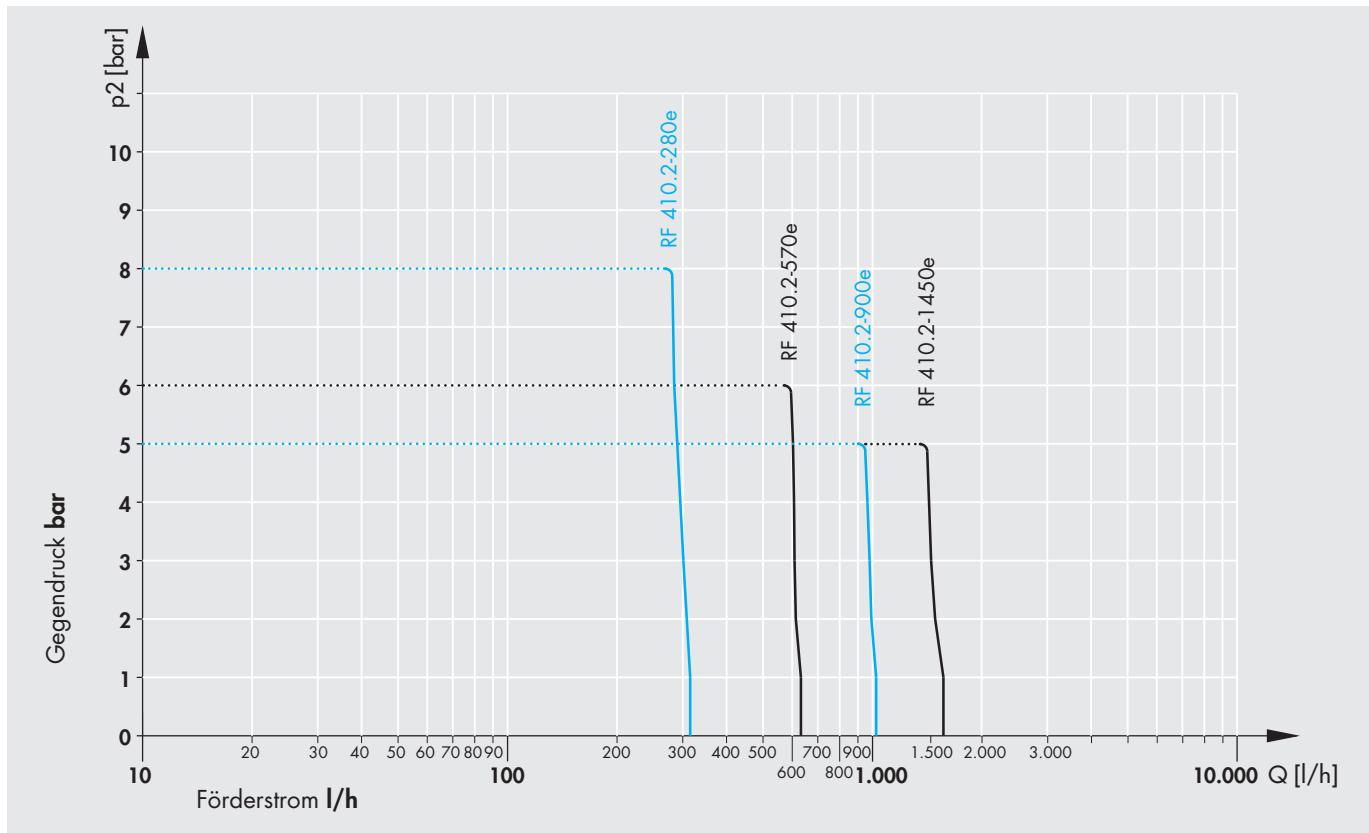
PUMP DATA		RF 410.2-...			
		280e	570e	900e	1450e
Permissible pressure $p_{2\max}$ at the pump outlet	bar	8	6	5	5 *
Nominal capacity QN at $p_{2\max}$	l/h	50 Hz 60 Hz	0.280 0.336	0.570 0.684	0.900 0.1.080
Quantity per stroke	ml/stroke	(100%)	46	98	155
Max. suction height	mWC		5	5	3
Min./max. permissible pressure at the pump inlet	bar	$p_{1\min/\max}$	-0.5/0	-0.5/0	-0.3/0
Recommended nominal diameter DN of the connecting pipes	mm		15	15	20
Nominal stroke frequency	1/min	50 Hz 60 Hz	97 116	97 116	97 116
Weight approx.	kg	plastic stainless steel	35 42	35 42	37 52
* at 60 Hz is the permissible pressure 3,5 bar					

ELECTRICAL DATA		RF 410.2-...			
		280e	570e	900e	1450e
Power consumption	kW	0,75	0,75	1,1	1,5
Voltage	V		230/400V 50Hz, 460V 60Hz		
Frequency	Hz			50/60	
Insulation class	ISO			F	
Enclosure	IP			55	

DIMENSIONS



CHARACTERISTIC CHARTS



DIMENSIONS

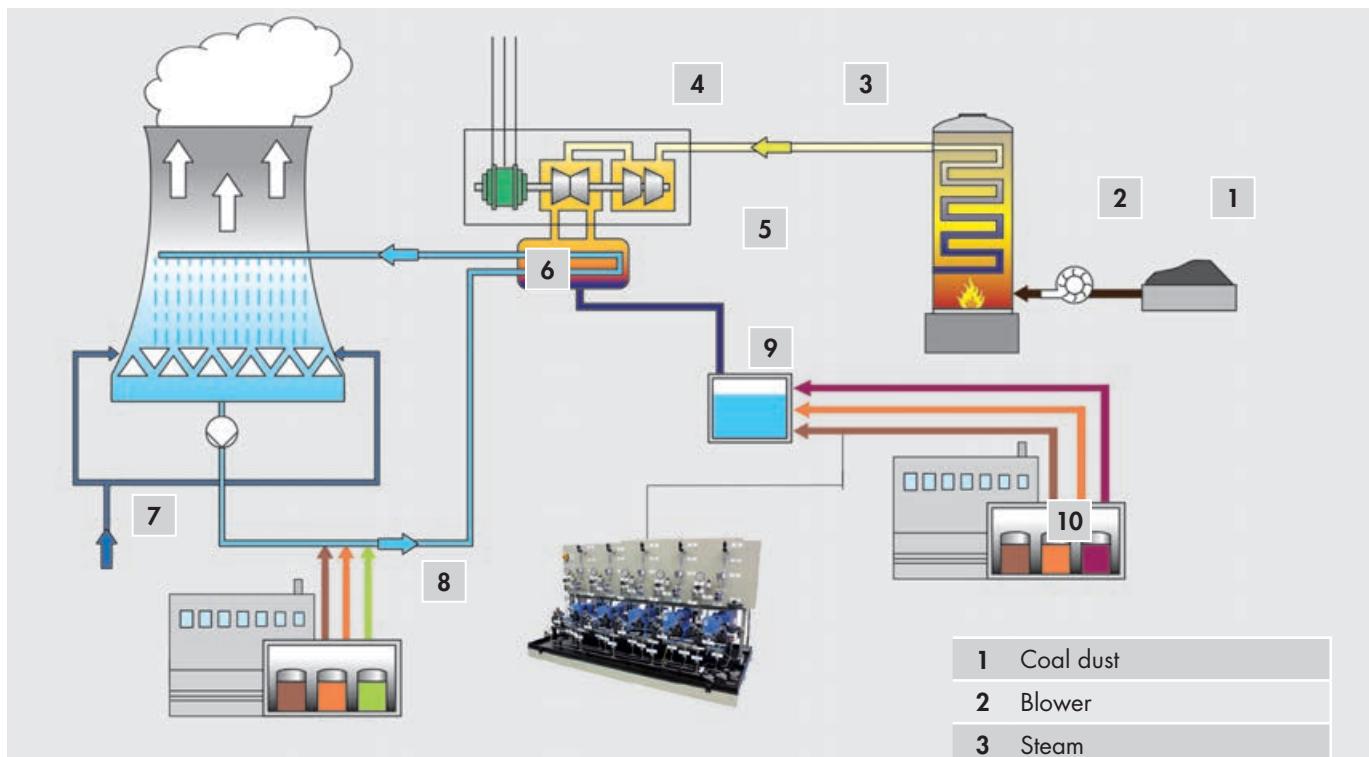
	RF 410.2-...			
SUCTION VALVES	...280e	...570e	...900e	...1450e
DN Nominal width	20 ⁽¹⁾	20 ⁽¹⁾	20	20
G Connection thread	G1½ ⁽¹⁾	G1½ ⁽¹⁾	G1½	G1½
S PP-FRP / PVDF-FRP	122	122	148	148
S PVC-U	119	119	150	150
S 1.4571	122	122	148	148
PRESSURE VALVES				
DN Nominal width	20 ⁽¹⁾	20 ⁽¹⁾	20	20
G Connection thread	G1½ ⁽¹⁾	G1½ ⁽¹⁾	G1½	G1½
D PP-FRP / PVDF-FRP	122	122	148	148
D PVC-U	138	138	170	170
D 1.4571	122	122	148	148
MAX. TOTAL HEIGHT				
H	530	530	540	580
MAX. TOTAL WIDTH				
B1	265	265	295	295
B2 (with relief valve)	280	280	—	—
MAX. TOTAL LENGTH				
L1	430	430	460	460
L2 (with relief valve)	535	535	—	—
RELIEF VALVE CONNECTION				
GU	G1½ ⁽¹⁾	G1½ ⁽¹⁾	—	—

(Measurements in mm)

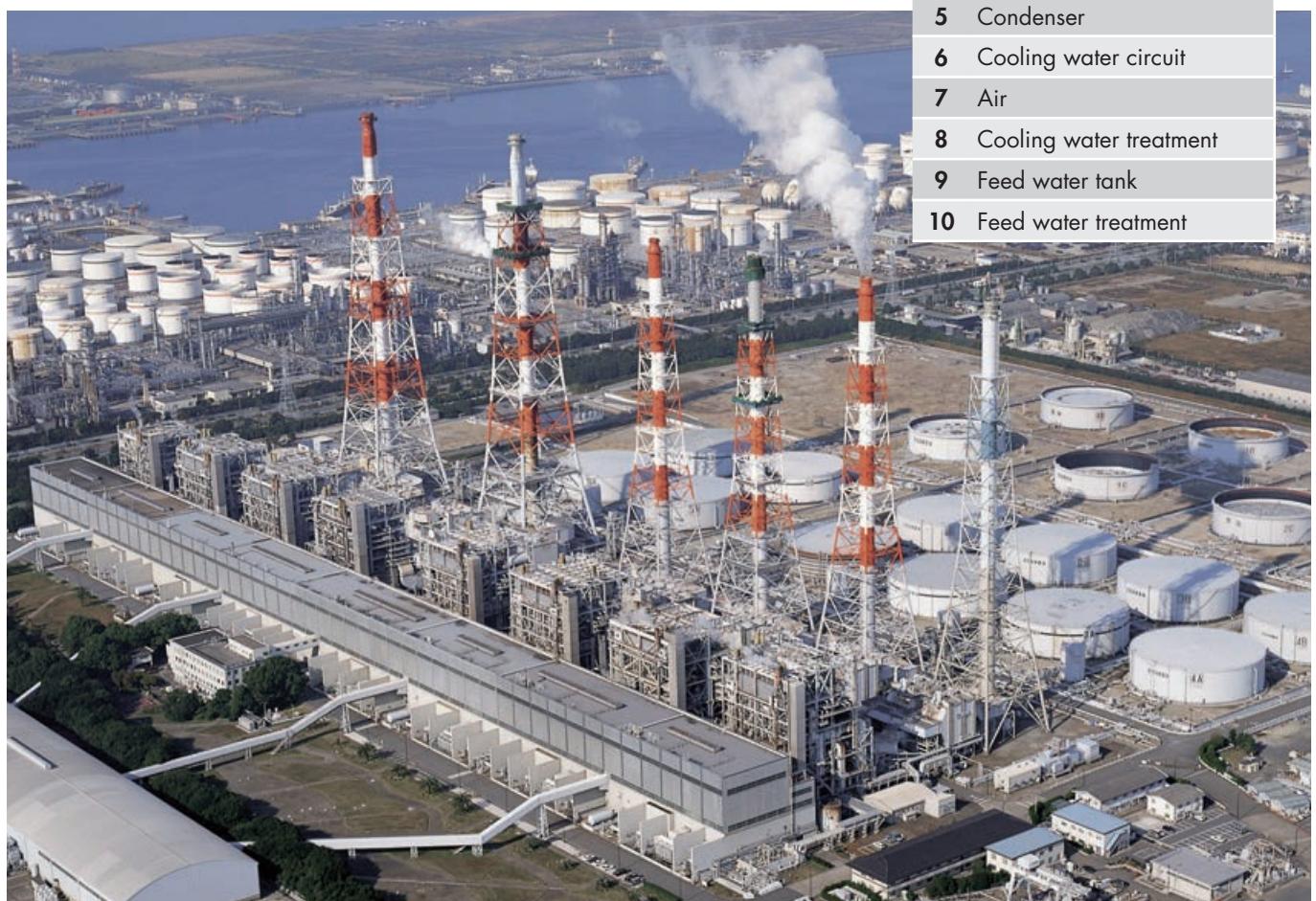
⁽¹⁾ DN15 / G1 at valves of PVC-U

APPLICATION EXAMPLE

TREATMENT OF FEED WATER IN POWER PLANT ENGINEERING



- | | |
|----|-------------------------|
| 1 | Coal dust |
| 2 | Blower |
| 3 | Steam |
| 4 | Turbine |
| 5 | Condenser |
| 6 | Cooling water circuit |
| 7 | Air |
| 8 | Cooling water treatment |
| 9 | Feed water tank |
| 10 | Feed water treatment |



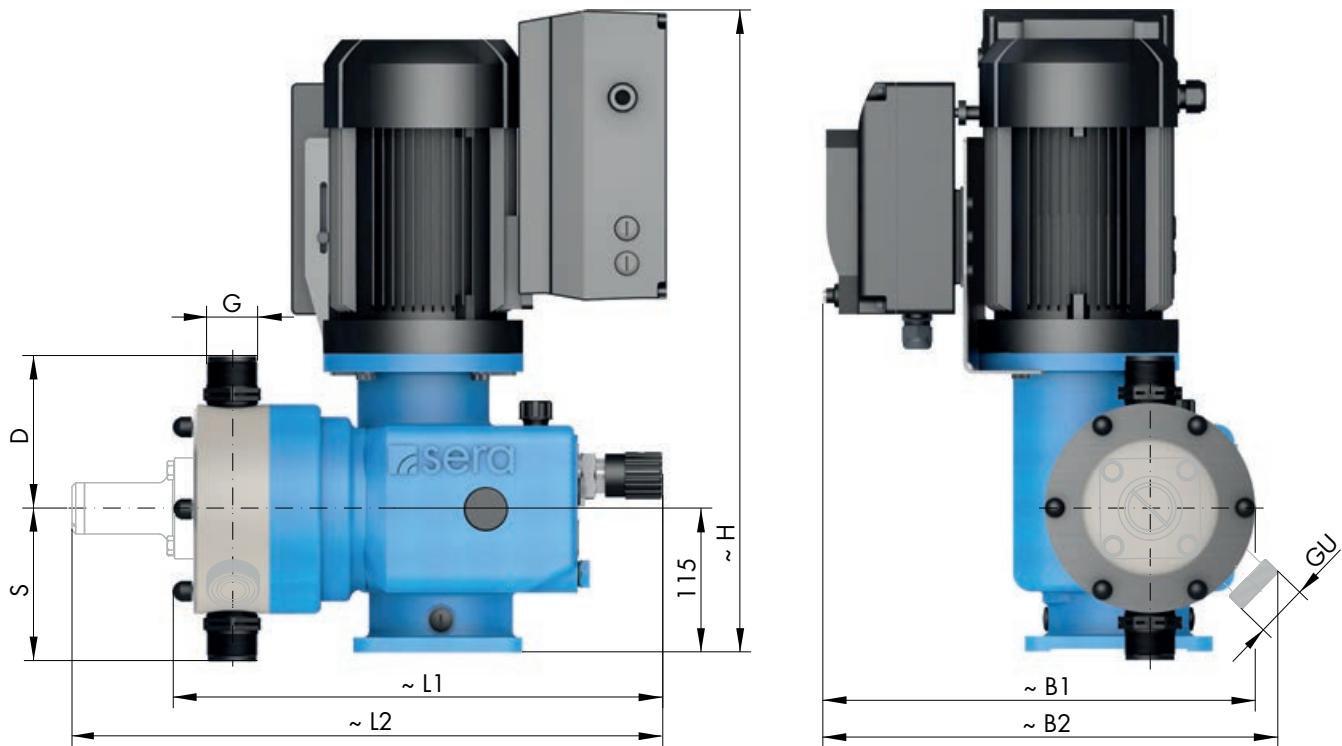
TECHNICAL DATA

DIAPHRAGM PUMP C410.2

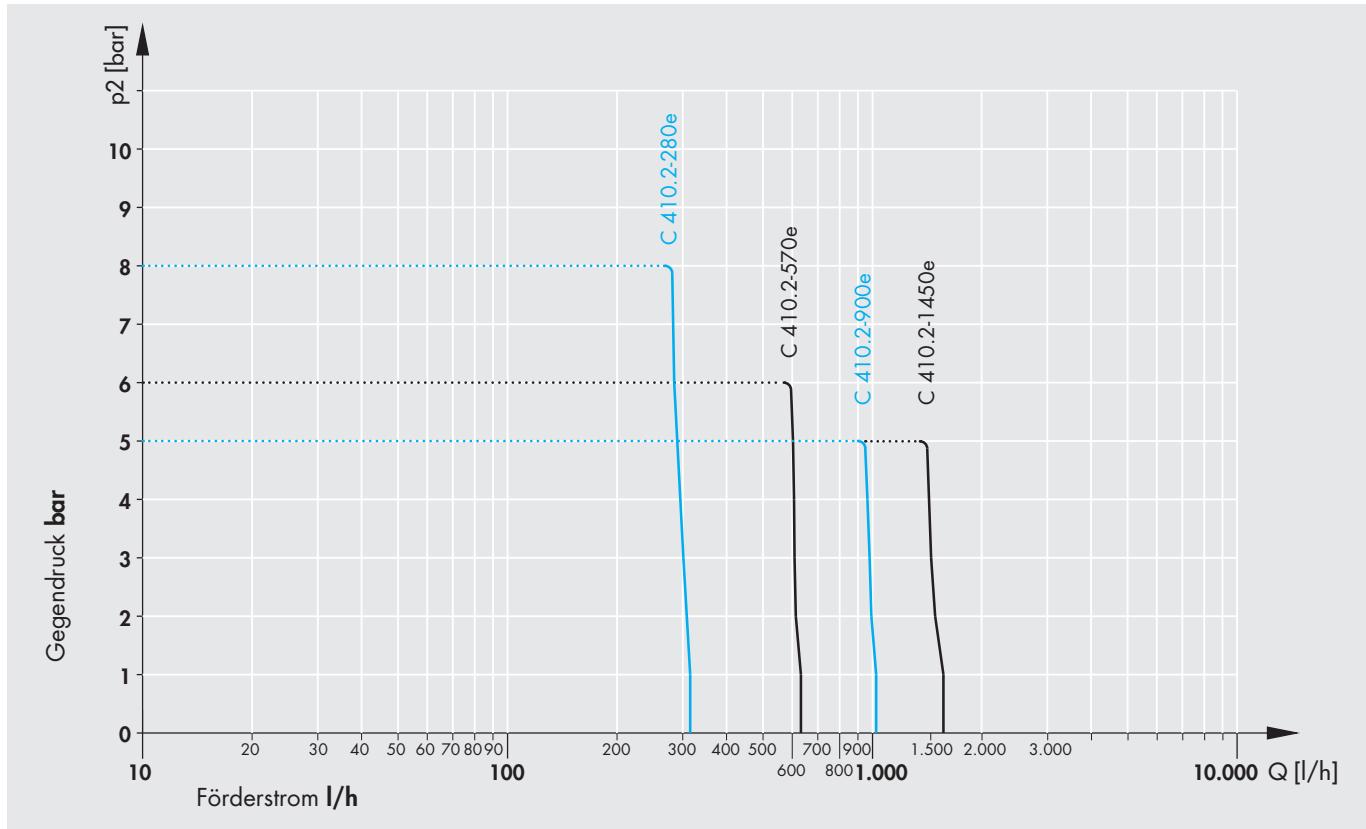
PUMP DATA			C 410.2-...			
			280e	570e	900e	1450e
Permissible pressure $p_{2\max}$ at the pump outlet	bar		8	6	5	5
Nominal capacity QN at $p_{2\max}$	l/h	50/60 Hz	0-280	0-570	0-900	0-1.450
Quantity per stroke	ml/stroke	(100%)	46	98	155	245
Max. suction height	mWC		5	5	3	3
Min./max. permissible pressure at the pump inlet	bar	$p_{1\min/\max}$	-0,5/0	-0,5/0	-0,3/0	-0,3/0
Recommended nominal diameter DN of the connecting pipes	mm		15	15	20	25
Nominal stroke frequency	1/min	50 Hz	97	97	97	97
Weight approx.	kg	plastic	38	38	49	49
		stainless steel	45	45	64	64

ELECTRICAL DATA			C 410.2-...			
			280e	570e	900e	1450e
Power consumption	kW		0,75	0,75	1,5	1,5
Voltage	V				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	

DIMENSIONS



CHARACTERISTIC CHARTS



DIMENSIONS

	C 410.2-...			
SUCTION VALVES	...280e	...570e	...900e	...1450e
DN Nominal width	20 ⁽¹⁾	20 ⁽¹⁾	20	20
G Connection thread	G1½ ⁽¹⁾	G1½ ⁽¹⁾	G1½	G1½
S PP-FRP / PVDF-FRP	122	122	148	148
S PVC-U	119	119	150	150
S 1.4571	122	122	148	148
PRESSURE VALVES				
DN Nominal width	20 ⁽¹⁾	20 ⁽¹⁾	20	20
G Connection thread	G1½ ⁽¹⁾	G1½ ⁽¹⁾	G1½	G1½
D PP-FRP / PVDF-FRP	122	122	148	148
D PVC-U	138	138	170	170
D 1.4571	122	122	148	148
MAX. TOTAL HEIGHT				
H	530	530	580	580
MAX. TOTAL WIDTH				
B1	355	355	380	380
B2 (with relief valve)	365	365	—	—
MAX. TOTAL LENGTH				
L1	430	430	460	460
L2 (with relief valve)	535	535	—	—
RELIEF VALVE CONNECTION				
GU	G1½ ⁽¹⁾	G1½ ⁽¹⁾	—	—

(Measurements in mm)

⁽¹⁾ DN15 / G1 at valves of PVC-U

A professional woman with blonde hair, wearing a dark button-down shirt, is engaged in a conversation with a man whose back is to the camera. She is gesturing with her hands while speaking, indicating an active discussion. The background shows a modern office environment with large windows.

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