

R410.2



R410.2 in survey

- Compact design
- Low weight
- Safe to run dry
- Leakage-free
- Low maintenance
- User-friendly
- High dosing accuracy
- Integrable into automatic processes
- Manual stroke length adjustment
- Robust metallic stroke mechanism housing

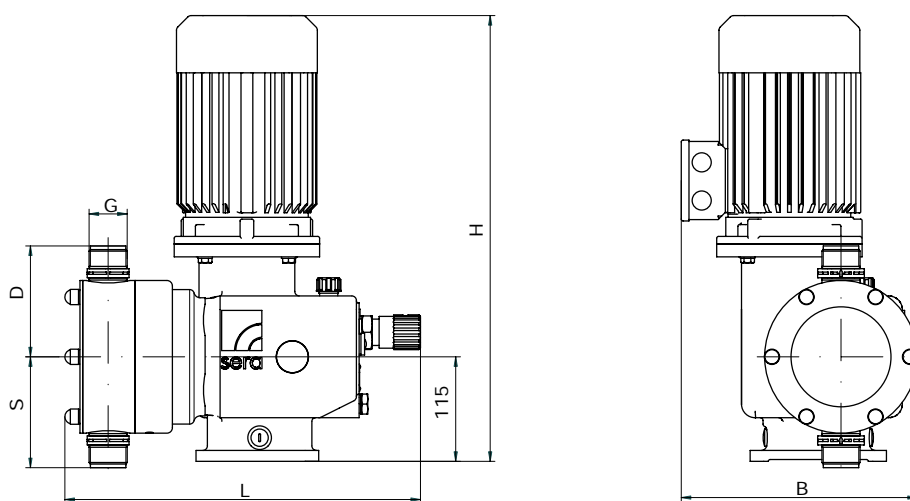
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Technical data

Type	Nominal capacity l/h		Nominal stroke frequency 1/min		Admiss. counter-pressure bar	Admiss. pressure at pump inlet bar	Max. suction height mWC	Inlet/Outlet nominal width DN	Max. stroke length mm	rated motor power kW
	50 Hz	60 Hz	50 Hz	60 Hz						
R410.2-200e	0 - 200	0 - 240	76	92	8	-0,5 / 0	5	15	13	0,75
R410.2-280e	0 - 280	0 - 336	97	116	8	-0,5 / 0	5	15	13	0,75
R410.2-450e	0 - 450	0 - 540	76	92	6	-0,5 / 0	5	15	13	0,75
R410.2-570e	0 - 570	0 - 684	97	116	6	-0,5 / 0	5	15	13	0,75
R410.2-700e	0 - 700	0 - 840	76	92	5	-0,3 / 0	3	20	13	0,75
R410.2-900e	0 - 900	0 - 1080	97	116	5	-0,3 / 0	3	20	13	0,75
R410.2-1100e	0 - 1100	0 - 1320	76	92	5	-0,3 / 0	3	25	20	1,5
R410.2-1450e	0 - 1450	-	97	-	5	-0,3 / 0	3	25	20	1,5

Dimensional drawing



Dimensional chart

All indications in mm

Type	G	S	D	L	B	H	Weight kg
R410.2-200e	G 1 1/4	122	122	405	275	490	29
R410.2-280e	G 1 1/4	122	122	405	275	490	29
R410.2-450e	G 1 1/4	122	122	405	275	490	29
R410.2-570e	G 1 1/4	122	122	405	275	490	29
R410.2-700e	G 1 1/4	142	142	480	330	525	33
R410.2-900e	G 1 1/4	142	142	480	330	525	33
R410.2-1100e	G 1 1/4	142	142	480	330	525	35
R410.2-1450e	G 1 1/4	142	142	480	330	525	35

■ Indication of weight for basic design acc. to order information

Order information

Basic design

R410.2-200e to R410.2-1450e

- Pump body PP
- Single valve PP-FRP
- Valve balls Glass
- Valve seals FPM
- Working diaphragm PTFE-faced







Motor:

- 220-240/380-420 V +/- 5% threephase, 50/60 Hz, IP 55, insul. cl. F

Further options and accessories

- Connection pieces see chapter 4
- Product documentation see chapter 5

Type	Basic design	x
R410.2-200e	16005245	
R410.2-280e	16005282	
R410.2-450e	16005283	
R410.2-570e	16005284	
R410.2-700e	16005235	
R410.2-900e	16005285	
R410.2-1100e	16005286	
R410.2-1450e	16005287	

Options/Accessories			R410.2-200e R410.2-280e	x	R410.2-450e R410.2-570e	x	R410.2-700e R410.2-900e	x	R410.2-1100e R410.2-1450e	x
Pump body and valves 	PP	single valve PP-FRP	●		●		●		●	
	PVC-U	single valve PVC-U	▲		▲		▲		▲	
	PVDF	single valve PVDF-FRP	▲		▲		▲		▲	
	1.4571	single valve 1.4571/1.4581	▲		▲		▲		▲	
Valve balls 	Glass	single valve	●		●		●		●	
	1.4401	single valve	▲		▲		▲		▲	
	PTFE	single valve	▲		▲		▲		▲	
Valve seals 	FPM	single valve	●		●		●		●	
	EPDM	single valve	○		○		○		○	
	FEP-covered	single valve	▲		▲		▲		▲	
Integrated relief valve 	with PTFE-faced diaphragm, connection seal FPM or EPDM at pump body made of:									
	PP		▲		▲		–		–	
	PVC-U		▲		▲		–		–	
	PVDF		⊗		⊗		–		–	
	1.4571		▲		▲		–		–	
	Connection seals FEP-covered		▲		▲		–		–	
Diaphragm rupture monitoring 	Diaphragm rupture electrode conductive, mounted to pump									
	MBE-02	for single diaphragm pump	▲		▲		▲		▲	
Diaphragm rupture monitoring 	Electrode relay, control cabinet assembly									
	ER-104/C	aux. energy 230 V AC	90022994		90022994		90022994		90022994	
		aux. energy 24 V DC	90022945		90022945		90022945		90022945	
ER-142	aux. energy 230 V AC II(1)G [EExia] IIC acc. to ATEX 95	90200363		90200363		90200363		90200363		

● = basic design ▲ = with add. price ○ = without add. price ⊗ = on request – = not available Art.-No. = available in basic design/accessories



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Order information

Basic design

R410.2-200e up to R410.2-1450e

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- Valve balls Glass
- Valve seals FPM
- Working diaphragm PTFE-faced




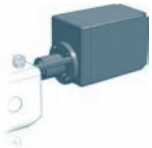
Motor:

- 220-240/380-420 V +/- 5% threephase, 50/60 Hz, IP 55, insul. cl. F

Further options and accessories

- Connection pieces see chapter 4
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R410.2-1100e	16005286	
R410.2-1450e	16005287	

Options/Accessories		R410.2-200e R410.2-280e x	R410.2-450e R410.2-570e x	R410.2-700e R410.2-900e x	R410.2-1100e R410.2-1450e x
Stroke length adjustment 	with position indicator	▲	▲	▲	▲
	Inductive-contact				
Stroke frequency monitoring 	10-60 V DC, three-wire, PNP	▲	▲	▲	▲
	Namur execution, II2G EExia IICT6 acc. to ATEX95	▲	▲	▲	▲
Drive motor 	Special voltage	▲	▲	▲	▲
	Enclosure IP 65	▲	▲	▲	▲
	Protective roof for the fan of the drive	▲	▲	▲	▲
	integrated posistor (3 pcs.) insul. cl. F	▲	▲	▲	▲
	VIK-design	▲	▲	▲	▲
	II2G EExe IIT4 (acc. to ATEX95)	▲	▲	▲	▲
	II2G EExde IICT4 (acc. to ATEX95)	▲	▲	▲	▲
	Single phase AC 230V with capacitor	▲	▲	▲	⊙
	Driver for converter operation incl. integrated posistor, 5-50/60Hz	▲	▲	▲	▲
Driver for converter operation II2G EExde IICT4, 5-50/60 Hz acc. ATEX 95, incl. integrated posistor	▲	▲	▲	▲	
Stroke length adjustment electrical 	Actuator N1S 230 V, 50/60 Hz, 128s/10 U, 15 Nm Potentiometer 1 kOhm incl. mounting kit for actuator	▲	▲	▲	▲
	Electronic positioning controller PMR3 input signal 0/4-20 mA incl. feedback signal 0/4-20 mA (only in N 1S integrated)	▲	▲	▲	▲
	Actuator D30D-10-Ex (II2G EExde IICT4) acc. to ATEX 95, 400 V, 50 Hz, 10 U/min, incl. mounting-kit for actuator and base plate	▲	▲	▲	▲

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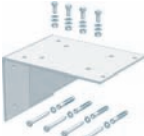
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R410.2-1100e	16005286	
R410.2-1450e	16005287	

Options/Accessories		R410.2-200e R410.2-280e x	R410.2-450e R410.2-570e x	R410.2-700e R410.2-900e x	R410.2-1100e R410.2-1450e x	
 Stroke frequency adjustment electrical Frequency converter series 8200 Motec mounted-on, input 4-20mA	Three-phase 320-550 V, +/- 0%, 50/60 Hz	0,75 kW	▲	▲	–	–
		1,5 kW	–	–	▲	▲
	Service module hand terminal and keypad incl. 2,5m connection cable		▲	▲	▲	▲
	Switch-potentiometer for manuell stroke frequency adjustment and to switch on the pump motor (External control of the frequency converter with mounted switch potentiometer unit is not possible)		▲	▲	▲	▲
 Stroke frequency adjustment electrical Frequency converter series 8200 Vector input 4-20mA, incl. Keypad (for integration into control cabinet)	Single-phase 230 V, 50/60 Hz	0,75 kW	90017524	90017524	–	–
		1,5 kW	–	–	900168656	90016865
	Three-phase 320-550 V, +/- 0%, 50/60 Hz	0,75 kW	90017527	90017527	–	–
		1,5 kW	–	–	90017528	90017528
 Console for wall mounting incl. fixing screws	1.4301	90023876	90023876	90023876	90023876	
	PP	90023849	90023849	90023849	90023849	
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Fittings for suction side of dosing pumps		R410.2-200e R410.2-280e		R410.2-450e R410.2-570e		R410.2-700e		R410.2-900e		R410.2-1100e R410.2-1450e	
		Type	P.	Type	P.	Type	P.	Type	P.	Type	P.
Suction lance	with level switch 1-stage	S-04	3.40	S-04	3.40	SLP-151.1		⊗		⊗	
	without level switch	S-01	3.46	S-01	3.46	S-01	3.46	⊗		⊗	
Suction aid / Siphon Vessel	PVC-U-transparent	770.2	3.76	770.2	3.76	771.2	3.76	771.2	3.76	772.2	3.76
Calibration Pot	PVC-U	795.1	3.78	795.1	3.78	796.1	3.78	796.1	3.78	796.1	3.78
Foot valve	PVC-U	732.2	3.80	732.2	3.80	733.2	3.80	733.2	3.80	733.2	3.80
	PP / PVDF	732	3.82	732	3.82	733	3.82	733	3.82	733	3.82
	PP-FRP / PVDF-FRP	783.1	3.80	783.1	3.80	783.1	3.80	783.1	3.80	783.1	3.80
	1.4571	732	3.82	732	3.82	733	3.82	733	3.82	733	3.82
Line strainer	PVC-U / PP / PVDF	752.1	3.88	752.1	3.88	753.1	3.88	753.1	3.88	754.1	3.88
	1.4408	752	3.90	752	3.90	753	3.90	753	3.90	754	3.90
Float valve	PVC-U	872	3.92	872	3.92	873	3.92	873	3.92	874	3.92
Pulsation damper without separating diaphragm	PVC-U / PP	702.1	3.14	702.1	3.14	703.1	3.14	703.1	3.14	706.1	3.14
	1.4571	⊗		⊗		⊗		⊗		⊗	
Fittings for pressure side of dosing pumps		R410.2-200e R410.2-280e		R410.2-450e R410.2-570e		R410.2-700e		R410.2-900e		R410.2-1100e R410.2-1450e	
		Type	P.	Type	P.	Type	P.	Type	P.	Type	P.
Diaphragm-type relief valve		622.10	3.4	622.10	3.4	623.10	3.4	623.10	3.4	624.10	3.4
	for suspension	⊗		⊗		⊗		⊗		⊗	
Diaphragm-type pressure keeping valve		622.D	3.8	622.D	3.8	623.D	3.8	623.D	3.8	624.D	3.8
Pulsation damper without separating diaphragm	PVC-U / PP	702.1	3.14	702.1	3.14	703.1	3.14	703.1	3.14	706.1	3.14
	1.4571	⊗		⊗		⊗		⊗		⊗	
Diaphragm-pulsation damper with Elastomer-diaphragm	PVC-U / PP / PVDF	713.1	3.18	713.1	3.18	713.1	3.18	713.1	3.18	713.1	3.18
	1.4571	810.1-0,75/140	3.28	810.1-2,0/100	3.28	810.1-2,0/100	3.28	810.1-2,0/100	3.28	713.1	3.20
Diaphragm-pulsation damper with PTFE/PTFE-faced diaphragm	PVC-U / PP / PVDF	723.1	3.22	⊗		⊗		⊗		⊗	
	1.4571	723.1	3.26	724.1	3.26	724.1	3.26	724.1	3.26	⊗	
Check valve	PP-FRP / PVDF-FRP	663.2	3.50	663.2	3.50	663.2	3.50	663.2	3.50	663.2	3.50
	1.4571	662.2	3.50	662.2	3.50	663.2	3.50	663.2	3.50	663.2	3.50
Dosing valve	PVC-U / PP / PVDF	682.1	3.58	682.1	3.58	683.1	3.58	683.1	3.58	684.1	3.58
	PP-FRP / PVDF-FRP	693.1	3.54	693.1	3.54	693.1	3.54	693.1	3.54	693.1	3.54
	1.4571	692.1	3.54	692.1	3.54	693.1	3.54	693.1	3.54	693.1	3.54
Injection fitting	PVC-U / PP / PVDF	8062.1	3.60	8062.1	3.60	8063.1	3.60	8063.1	3.60	8063.1	3.60

⊗ = on request

-- = not available

The above allocation considers the fittings which have to be used at least regarding their nominal width in order to ensure the safe and trouble-free operation of the respective pumps when feeding liquids which are similar to water.

Absolutely note the max. admissible operating pressure of the fittings.

The use of fittings of a bigger nominal width is unproblematically possible in most cases.

When choosing the fittings note the installation instructions for dosing pumps or confer with **sera**.