



Peristaltic Pumps

MODELS

SR10/30
SR10/50
SR10/100
SR18
SR25



SR18



SR10/30



SR25

FEATURES

- Compact design
- Quick change of cassette (SR10)/ tubing (SR25, SR18)
- Endless tubing possible (SR10)
- Self priming
- Safe to run dry
- Maintenance free
- Different tubing materials

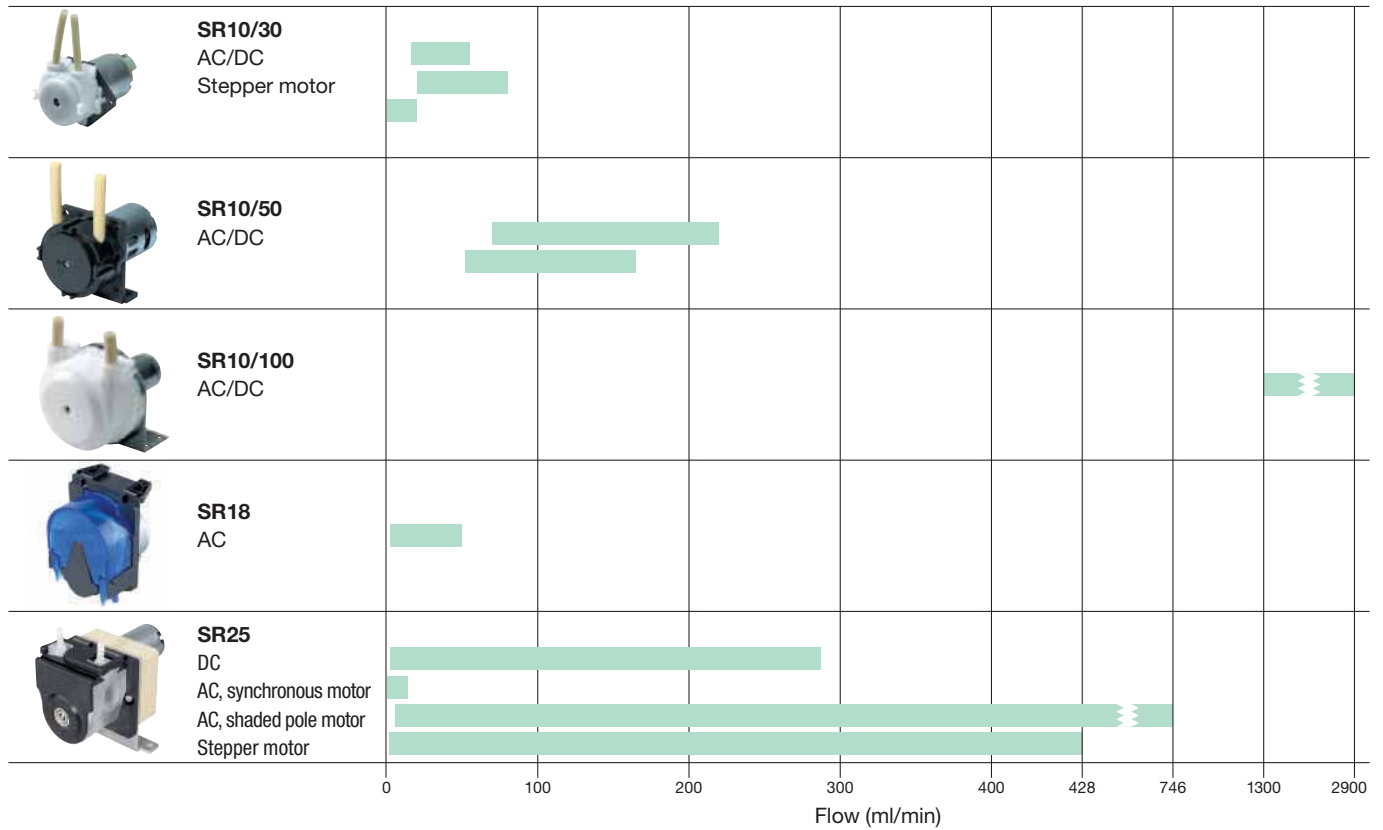
TYPICAL APPLICATIONS

- Chemical industry
- Medical industry
- Laboratory and analysis technology
- Food sector
- Hygiene, disinfection
- Industrial dishwasher
- Glass washing



Peristaltic Pumps

Characteristics overview



Preselection

	Drive						Operation mode		Stand-by pump		Page
	12/24 V DC	12/24 V DC LC motor	230 V AC	115 V AC	100 V/50-60 Hz	Stepper motor	Continuous operation	Short time operation	IP54	IP54, adjustable	
 SR10/30	●	●	●			●		●			5 – 7
 SR10/50		●	●					●			8
 SR10/100	●		●					●	●		9
 SR18			●				●	● ¹⁾			11
 SR25	●		●	●	●	●	●	●		●	12 – 17

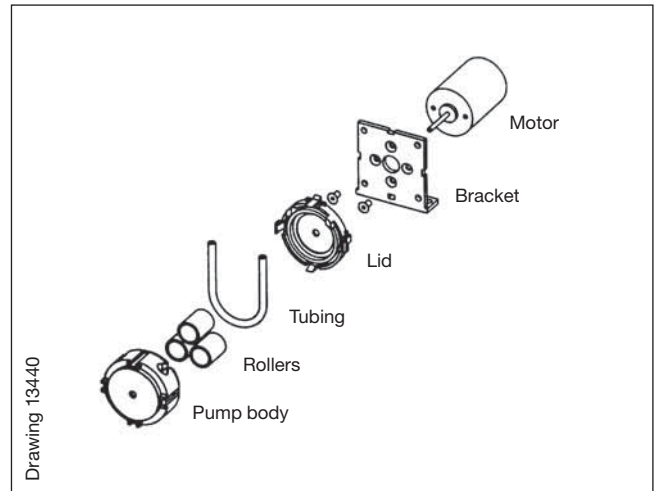
¹⁾ pumps with sequencer

Peristaltic Pumps

Series SR10



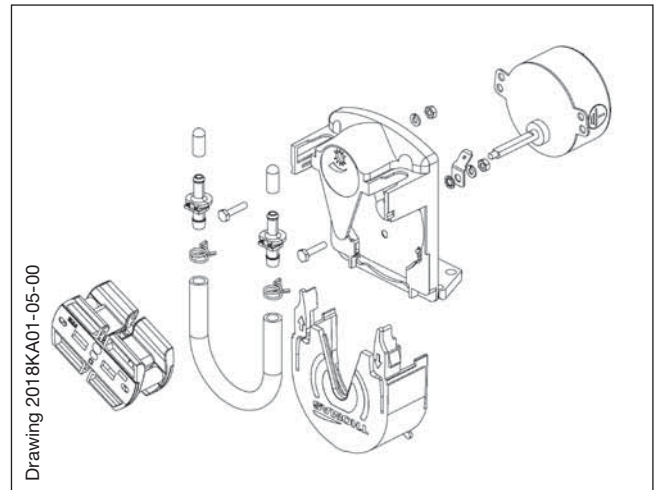
- Speed reduction through frictional connection from the motor shaft to the rollers.
- Very simple construction with the use of few parts only.
- Easy change of the cassette.
- Generally 3 rollers.
- For short time operation only.
- If the pump is stored longer than three months, we recommend to take the cassette off the motor shaft and store it separately.
- Different motors available (DC, low cost DC, AC and stepper motor).



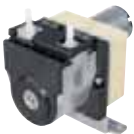
Series SR18



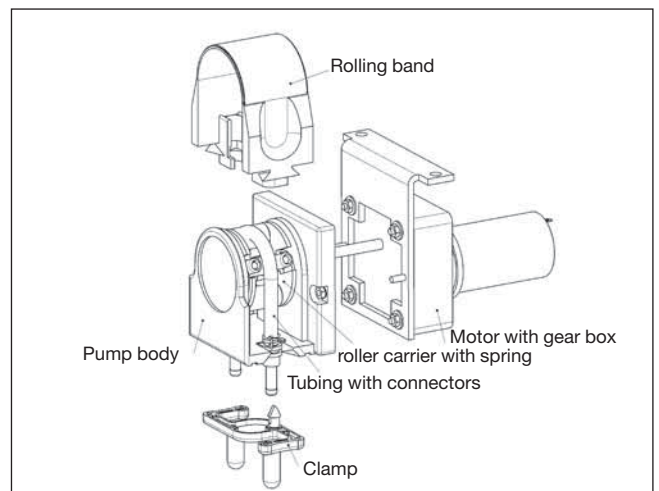
- Peristaltic pump with QuiXchange system
- Tube exchange without tooling within seconds
- Spring loaded roller carrier with two rollers for extremely long durability
- Optional „sequencer“ for flow adjustment
- AC-motor



Series SR25



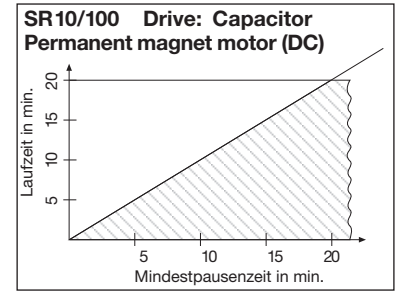
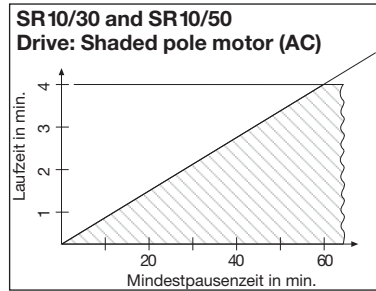
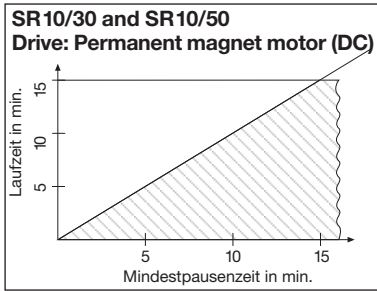
- Protection of the tubing due to spring loaded rollers and guiding side rollers.
- Quick and easy change of the tubing.
- Roller carrier with two rollers.
- Also suitable for continuous operation, depending on the drive.
- If stored longer than three months, we recommend to remove the tubing.
- Different gear motors available (DC, AC and stepper motor).



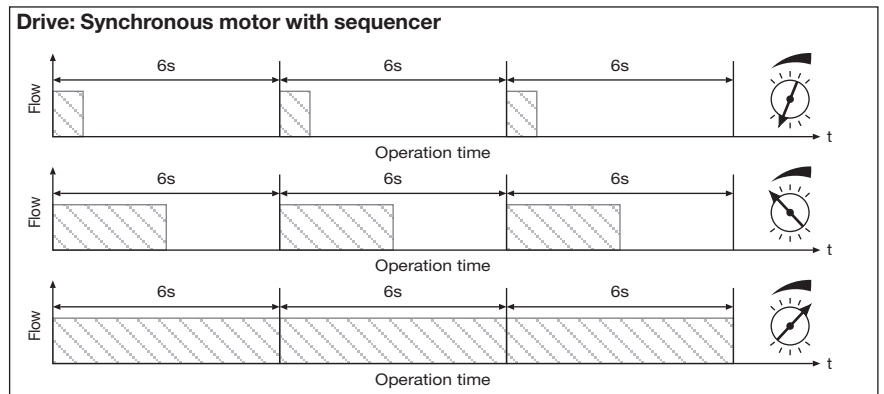
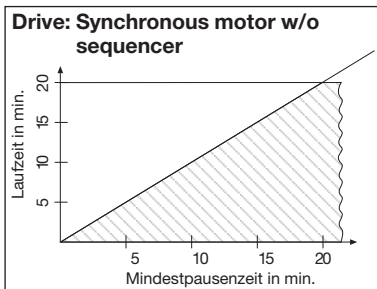
Peristaltic Pumps

Duty cycles

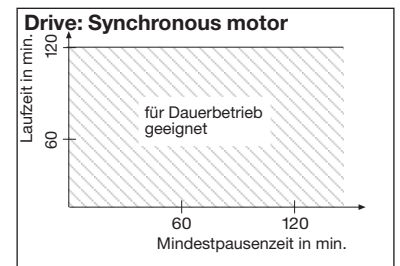
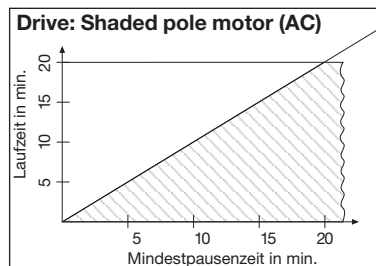
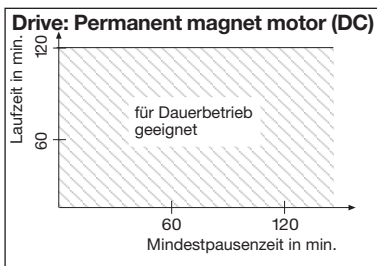
SR10



SR18



SR25



Lifetime	SR10			SR18	SR25	
	SR10/30	SR10/50	SR10/100	SR18 – 15 rpm	SR25 – 10 rpm	SR25 – 500 rpm
	Lifetime of the tubing					
Novoprene	500 h	500 h ²⁾	200 h	4000 h	> 5000 h	500 h
Norprene®						
PharMed BPT®						
Silicon	200 h	200 h	–	500 h	500 h	100 h
	Other wearing parts					
Roller carrier	Change the complete cassette ¹⁾ (see lifetime of the tubing)			2500 h	> 5000 h	500 h
Rolling band/lid						
	Drive					
DC motor	1000 h	1000 h	1000 h	–	3000 h	
AC motor	2000 h	2000 h	5000 h	–	5000 h	2000 h
AC synchronous motor	–	–	–	4000 h	10000 h	–
General Data	SR10			SR18	SR25	
Max. suction height	8 m H ₂ O			8 m H ₂ O	8 m H ₂ O	
Max. pressure height	8 m H ₂ O			10 m H ₂ O	10 m H ₂ O	
Max. ambient temperature	40 °C			40 °C	40 °C	
Media temperature	50 °C (short time 90 °C)			50 °C (short t. 90 °C)	50 °C (short time 90 °C)	

1) We recommend to roughen the shaft in axial direction when changing the cassette (sand paper grit size 150).

2) Ø 4 inner diameter on request

Norprene®, PharMed BPT® Norton Co. Reg. TM's

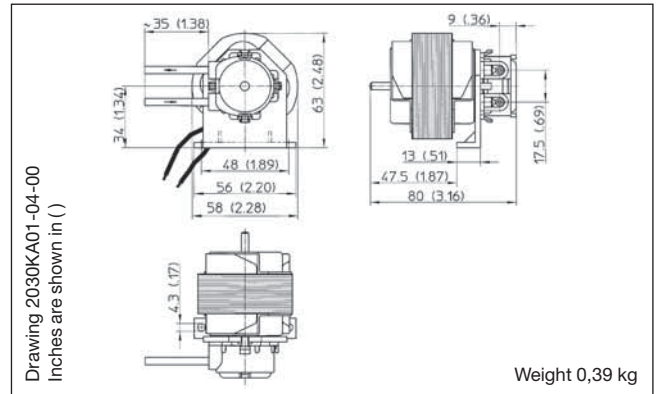
Peristaltic Pumps SR10/30

230 V/50 Hz, 12/24 V low cost DC
For short time operation only

Flow 16 – 55 ml/min

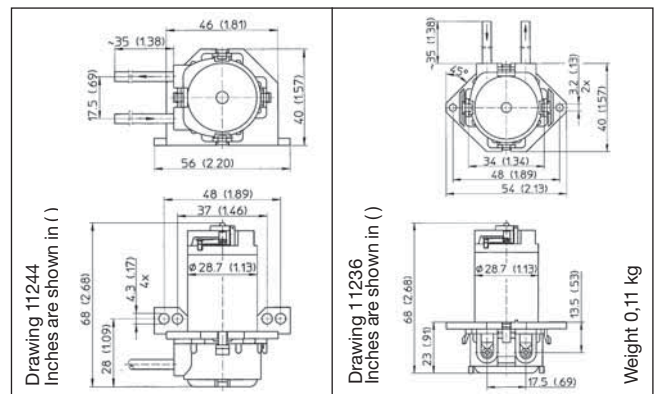


SR10/30 AC



**SR10/30 DC
angled fixing**

(straight without drawing)
Interference suppression
according to EN 55011 B
(CE-conform)



Tubing Novoprene			Tubing PharMed BPT®			Fixing	Inner tubing Ø mm	Flow ¹⁾ ml/min
12 V DC	24 V DC	230/50 Hz	12 V DC	24 V DC	230/50 Hz			
			20300512	20300542		straight	1,0	16
20300314	20300344		20300513	20300543	20300561	angled		
20300315	20300345	20300362	20300514	20300544		straight	1,5	28
20300316	20300346		20300515	20300545	20300562	angled		
20300317	20300347	20300363				straight	2,0	38
20300318	20300348					angled		
20300319	20300349		20300235	20300237		straight	2,5	55
		20300364	20300236	20300238	20300239	angled		

Tubing Silicon			Fixing	Inner tubing Ø mm	Flow ¹⁾ ml/min
12 V DC	24 V DC	230/50 Hz			
20300412	20300442		straight	1,0	16
20300413	20300443	20300461	angled		
20300414	20300444		straight	1,5	28
20300415	20300445	20300462	angled		
20300416	20300446		straight	2,0	38
20300417	20300447	20300463	angled		
20300418	20300448		straight	2,5	55
20300419	20300449	20300464	angled		

2030... Stock programme

Current consumption depending on the tubing diameter,
at free flow and nominal voltage

12 V DC: 180 – 300 mA
24 V DC: 90 – 150 mA
230 V/50 Hz: 190 mA

2) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality
and age of tubing, pressure of tubing beds, pressure ratios,
viscosity, etc. (max deviation ± 30%)
Please see page 4 for recommended running times and
general data.

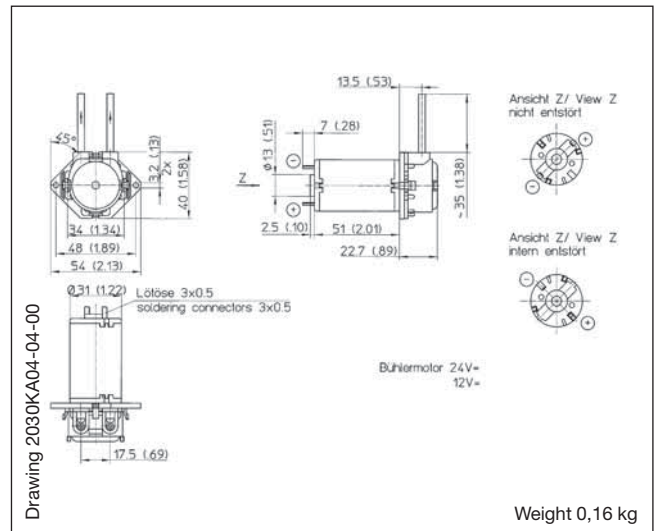
Peristaltic Pumps SR10/30

12/24 V Direct current motor
For short time operation only

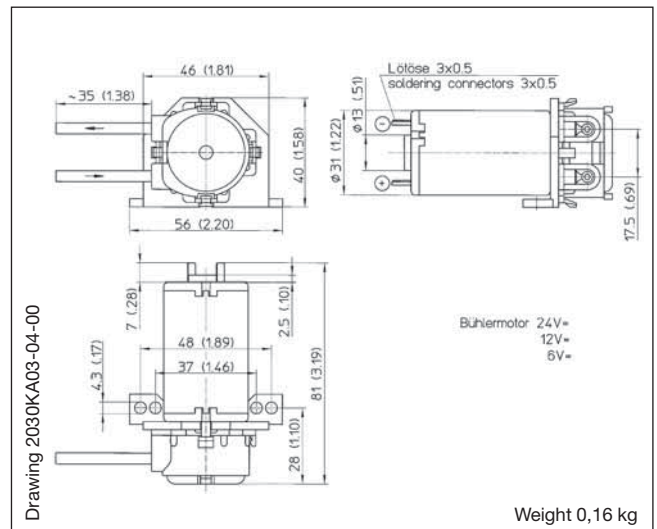
Flow 20 – 80 ml/min



**SR10/30 DC
Straight flange**



**SR10/30 DC
Angled flange**



Tubing Novoprene ¹⁾		Fixing	Inner tubing Ø mm	Flow ²⁾ ml/min
12 V DC	24 V DC			
		straight	1,0	20
		angled		
20300122	20300130	straight	1,5	37
20300126	20300134	angled		
20300123	20300131	straight	2,0	55
20300127	20300135	angled		
20300124	20300132	straight	2,5	80
20300128	20300136	angled		

1) other tubing materials on request

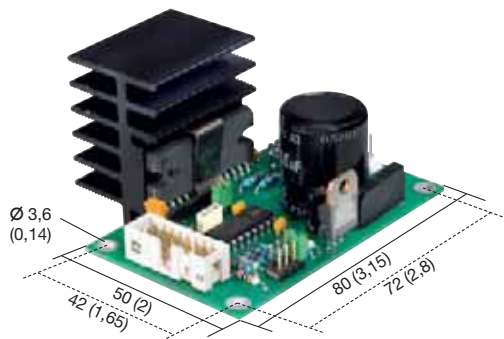
Current consumption depending on the tubing diameter,
at free flow and nominal voltage 12 V DC: 160 – 260 mA
24 V DC: 80 – 130 mA

2) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality
and age of tubing, pressure of tubing beds, pressure ratios,
viscosity, etc. (max deviation ± 30%)
Please see page 4 for recommended running times and
general data.

Peristaltic Pumps SR10/30

24 V DC with stepper motor
For short time operation only
Circuit board recommended for
test purposes

Flow 0,5 – 20 ml/min

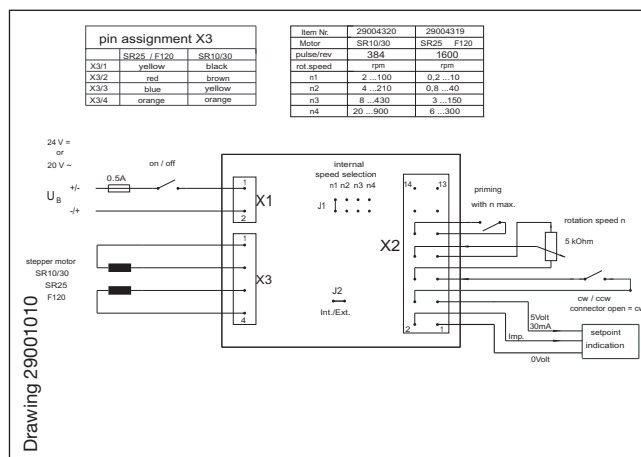
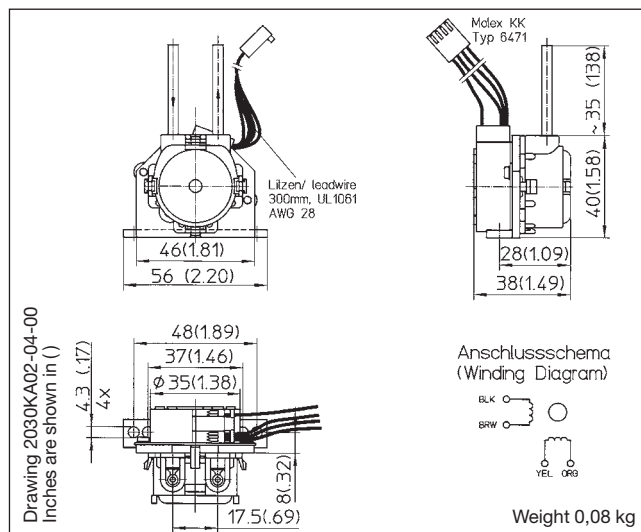


4 possible operating methods

- internal speed selection via jumper – option with wiring set¹⁾
- external speed selection
- analog input via pc
- digital input (clocked pulse)

Features

- speed pre-selection
- clockwise-, counter clockwise operation
- instant priming
- selective operating method



Adjustable range	I	II	III	IV
Speed	4 – 100 rpm	8 – 210 rpm	16 – 430 rpm	40 – 900 rpm
Tubing PharMed BPT®	Max. flow²⁾ ml/min (adjustable range 4 –100 %)			
Ph 1,0 x 1,1	0,5	1	2	4
Part number – pump without circuit board	20301012			
Part number – pump with circuit board	20301002			
Ph 1,5 x 1,1	1	2	5	10
Part number – pump without circuit board	20301013			
Part number – pump with circuit board	20301003			
Ph 2,5 x 1,0	2	5	10	20
Part number – pump without circuit board	20301014			
Part number – pump with circuit board	20301004			
Electrical Data				
Nominal voltage (drive through electronic board)	24 V/DC oder 20 V/AC			
Motor	Stepper motor, bipolar, stepping angle 7,5°			
Current consumption	0,4 A			
Max. restart consumption	3 A*			
Inductance at 1 kHz, 1 V	13 mH			
Winding resistance	13 Ω			

* Delay fuse to be used.

1) Option: 14-pole connecting cable with plug,
rocker switch for clockwise and lefthanded running
Potentiometer and speed-push-button, part number 29000702

2) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality
and age of tubing, pressure of tubing beds, pressure ratios,
viscosity, etc. (max deviation ± 30%)
Please see page 4 for recommended running times and
general data.

Peristaltic Pumps SR10/50

230 V/50 Hz, 12/24 V Direct current motor
For short time operation only

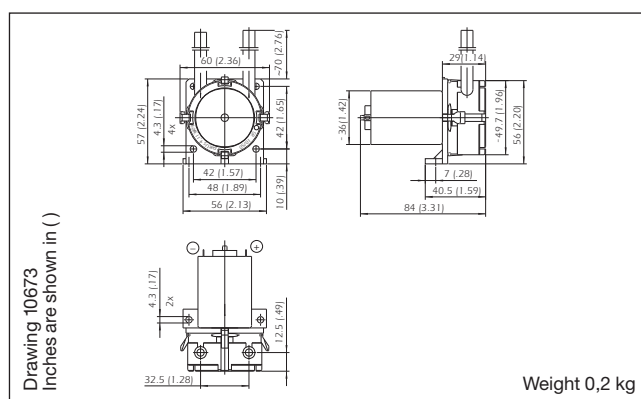
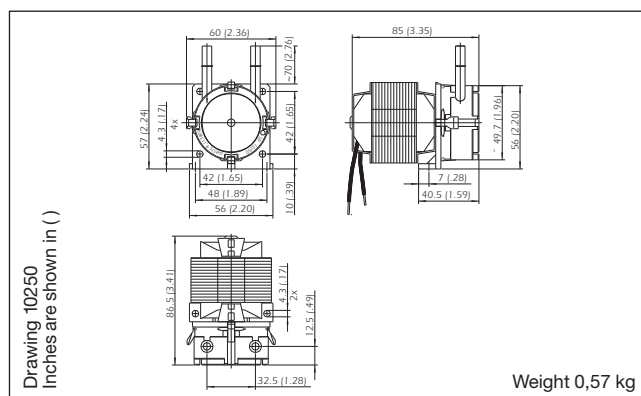
Flow 52 – 220 ml/min



SR10/50 AC



SR10/50 DC



Tubing Novoprene			Tubing PharMed BPT®			Tubing dimensions	Flow ¹⁾
12 V DC	24 V DC	230/50 Hz	12 V DC	24 V DC	230/50 Hz	mm	ml/min
		20500519			20500718	2,4 x 1,6	75
20500501	20500505		20500702	20500705			100
		20500520				3,2 x 1,6	110
20500502	20500506						170
		20500521			20500719	4,0 x 1,6	165
20500503	20500507		20500703	20500706			220

Tubing Silicon						Tubing dimensions	Flow ¹⁾
12 V DC	24 V DC	230/50 Hz				mm	ml/min
		20500620				2,5 x 1,6	75
20500602	20500606						100
		20500621				4,0 x 1,6	165
20500603	20500607						220

2050... Stock programme

Option: Straight flange for flush mounting part number 20501 ...
12/24 V DC – with additional circuit board (on request)

Current consumption depending on the tubing diameter,
at free flow and nominal voltage

12 V DC: 0,4 – 0,54 A
24 V DC: 0,2 – 0,27 A
230 V/50 Hz: 0,35 A

1) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality
and age of tubing, pressure of tubing beds, pressure ratios,
viscosity, etc. (max deviation ± 30%)
Please see page 4 for recommended running times and
general data.

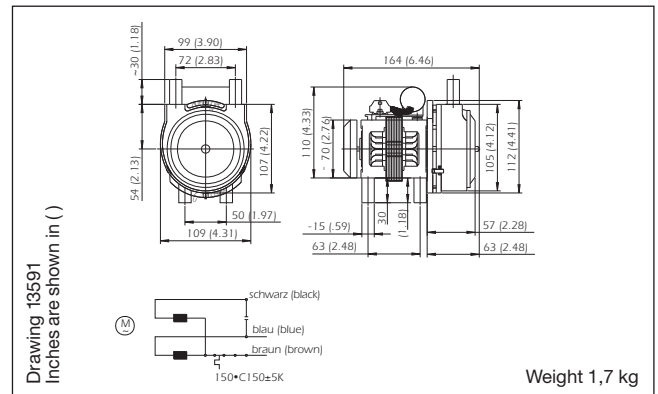
Peristaltic Pumps SR10/100

230 V/50 Hz, 12/24 V Direct current motor
For short time operation only

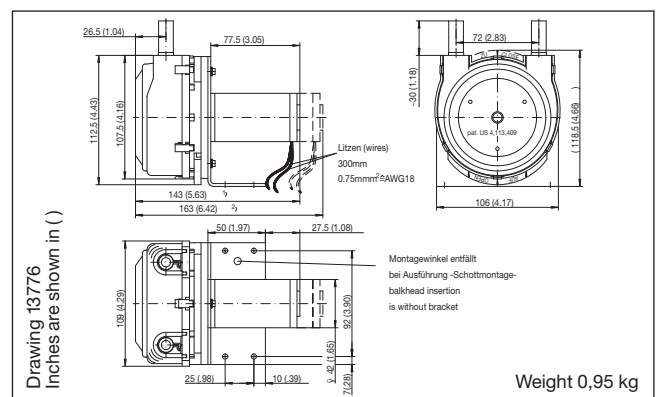
Flow 1300 – 3000 ml/min



SR10/100 AC



**SR10/100 DC
With bracket**



Tubing Norprene® 1)		Fixing	Tubing dimensions mm	Flow ²⁾ l/min
12 V DC	24 V DC			
21001008	21001009	bracket	8,0 x 2,4	2,3
21001014	21001015	flush mount		
21001200	21001122	bracket	9,5 x 2,4	3,0
21001205	21001206	flush mount		

Tubing Norprene®		Motor speed rpm	Tubing dimensions mm	Flow ¹⁾ l/min
230 V/50 Hz				
21001000		2800	6,35 x 2,4	1,3
21001002		2800	9,5 x 2,4	3,0

1) other tubing material on request

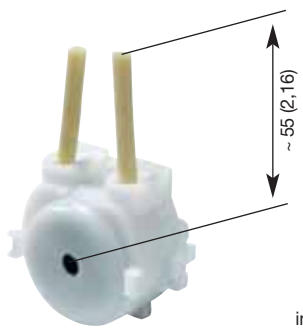
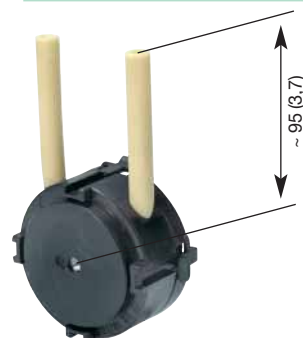
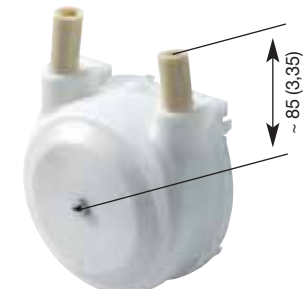
Option: Recommended inference suppression according to EN 55011 B (CE-conform)
12/24 V DC – with additional circuit board (on request)

Current consumption at free flow and nominal voltage 12 V DC: 3,0 A
24 V DC: 1,5 A
230 V/50 Hz: 0,4 A

2) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality and age of tubing, pressure of tubing beds, pressure ratios, viscosity, etc. (max deviation ± 30%)
Please see page 4 for recommended running times and general data.

Peristaltic Pumps Series SR10

Spare parts SR10 series

		Tubing		Drive			
		Inner Ø x Wall thickness		DC low cost Page 5	DC + AC Pages 5, 6, 7		
Model SR10/30		Novoprene	1,5 x 1,0 mm	92030703	92030514		
		Novoprene	2,0 x 1,0 mm	92030702	92030513		
		Novoprene	2,5 x 1,0 mm	92030701	92030704		
		PharMed BPT®	1,0 x 1,1 mm	92030548	92030604		
		PharMed BPT®	1,5 x 1,1 mm	92030534	92030549		
		PharMed BPT®	2,5 x 1,0 mm	92030611	92030603		
		Silicon	1,0 x 1,0 mm	92030800	92030505		
		Silicon	1,5 x 1,0 mm	92030802	92030554		
		Silicon	2,0 x 1,0 mm	92030804	92030555		
		Silicon	2,5 x 1,0 mm	92030806	92030553		
Model SR10/50		Novoprene	2,4 x 1,6 mm	92050576			
		Novoprene	3,2 x 1,6 mm	92050577			
		Novoprene	4,1 x 1,6 mm	92050594			
		PharMed BPT®	2,4 x 1,6 mm	92050586			
		PharMed BPT®	4,0 x 1,6 mm	92050587			
		Silicon	2,0 x 1,6 mm	92050581			
		Silicon	2,5 x 1,6 mm	92050582			
		Silicon	4,0 x 1,6 mm	92050583			
		Model SR10/100		Norprene®	6,35 x 2,4 mm	92100512	
				Norprene®	8,0 x 2,4 mm	92100504	
Norprene®	9,5 x 2,4 mm			92100501			

Tubing dimensions

1,5 x 1,0 mm

Inner Ø Wall thickness

Peristaltic Pumps SR18 with QuiXchange System

230 V/50 Hz²⁾, synchronous gear motor
Suitable for continuous running

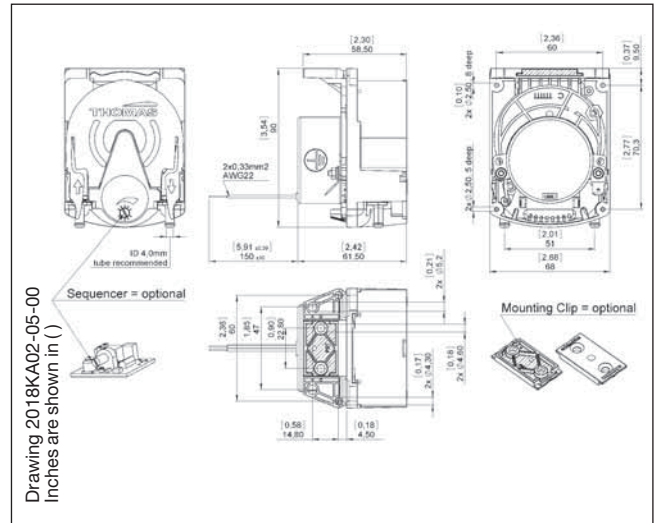
Flow 5 – 50 ml/min



Tubing QuiXchange

Features

Sequencer to adjust on/off-time (0% – 100%)



	Nominal speed 15 Upm	QuiXchange
Tubing Novoprene (ID x WT)	Flow ¹⁾ ml/min	Tubing only
N 6,0 x 1,6 mm	50	
Part number – pump without sequencer	20180051	92018551
Part number – pump with sequencer	20181051	92018551
N 4,1 x 1,6 mm	20	
Part number – pump without sequencer	20180052	92018552
Part number – pump with sequencer	20181052	92018552
N 2,4 x 1,6 mm	10	
Part number – pump without sequencer	20180053	92018553
Part number – pump with sequencer	20181053	92018553
N 1,6 x 1,6 mm	5	
Part number – pump without sequencer	20180054	92018554
Part number – pump with sequencer	20181054	92018554
Tubing Silicon (ID x WT)	Flow ¹⁾ ml/min	Tubing only
S 5,0 x 1,6 mm	40	
Part number – pump without sequencer	20180002	92018502
Part number – pump with sequencer	20181002	92018502
S 4,0 x 1,6 mm	25	
Part number – pump without sequencer	20180003	92018503
Part number – pump with sequencer	20181003	92018503
S 2,5 x 1,6 mm	10	
Part number – pump without sequencer	20180001	92018501
Part number – pump with sequencer	20181001	92018501
Running Data		
Rotation direction	clockwise	
Electrical Data		
Voltage	230 V/50 Hz ²⁾	
Motor	synchronous	
Motor insulation class	E	
Power consumption	5,5 W	
General Data		
Connector material	PP	
Weight	0,23 kg	

2018... Stock programme

1) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality and age of tubing, pressure of tubing beds, pressure ratios, viscosity, etc. (max deviation ± 10%)
Please see page 4 for recommended running times and general data.

2) 115 V/60 Hz and 100 V/50-60 Hz on request

Options: mounting clip
compression fitting

Art. Nr. 29027360
Art. Nr. 29027298

Peristaltic Pumps SR25

12/24 V, Direct current motor

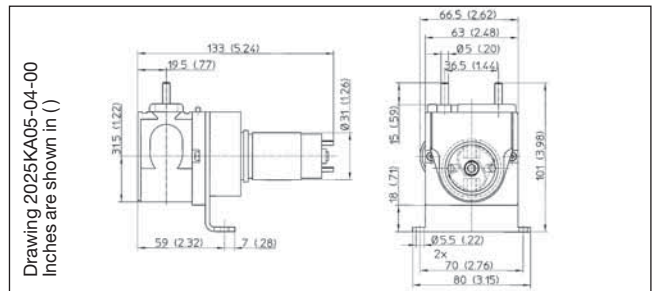
Flow 2 – 287 ml/min



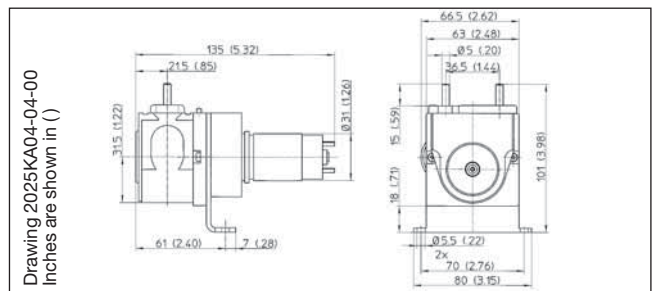
SR25, 10 to 80 rpm
Direct current motor



SR25 – 170 rpm¹⁾
Direct current motor



Drawing 2025KA05-04-00
Inches are shown in ()



Drawing 2025KA04-04-00
Inches are shown in ()

Bore pattern to fit in a housing see page 14.

	Nominal speed				
	10 rpm	30 rpm	65 rpm	80 rpm	170 rpm ¹⁾
Tubing Novoprene	Flow ²⁾ ml/min				
N 1,6 x 1,6 mm	2	7			
Part number 12 V		20251397			
Part number 24 V	20251388	20251401			
N 3,2 x 1,6 mm	8,4	25	56		
Part number 12 V		20251398	20251411		
Part number 24 V	20251371	20251255			
N 4,1 x 1,6 mm		36	82	102	204
Part number 12 V		20251399	20250083		20251261
Part number 24 V		20251402	20250082	20251010	20250396
N 4,8 x 1,6 mm	17	48	125	132	285
Part number 12 V		20251400	20250426		20251224
Part number 24 V	20251247	20251403	20251413	20250287	20250130
Tubing Silicon	Flow ²⁾ ml/min				
S 2,0 x 1,0 mm	3,5				
Part number 12 V					
Part number 24 V	20251394				
S 3,0 x 1,5 mm	6,5	19			
Part number 12 V		20251405			
Part number 24 V	20251395	20251408			
S 4,0 x 1,5 mm	13	38		103	
Part number 12 V		20250302			
Part number 24 V	20251396			20251434	
S 5,0 x 1,5 mm	18	54		143	287
Part number 12 V		20251406			20251441
Part number 24 V	20250092	20251366		20251435	20251444
Electrical Data					
Motor	Direct current motor				
Power consumption	2 W		3,5 W		7 W
General Data					
Weight	0,6 kg				

1) Pump with counter bearing

2025... Stock programme

Material of tubing connectors:

Tubing Silicon: for all Ø PVC
Tubing Novoprene: Ø 1,6/3,2 mm – PVC
Ø 4,1/4,8 mm – PP

Option: Recommended inference suppression according to EN 55011 B (CE-conform)
12/24 V DC – with additional circuit board (on request)

2) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality and age of tubing, pressure of tubing beds, pressure ratios, viscosity, etc. (max deviation ± 10%)
Please see page 4 for recommended running times and general data.

Peristaltic Pumps SR25

230 V/50 Hz, shaded pole motor
For short time operation only

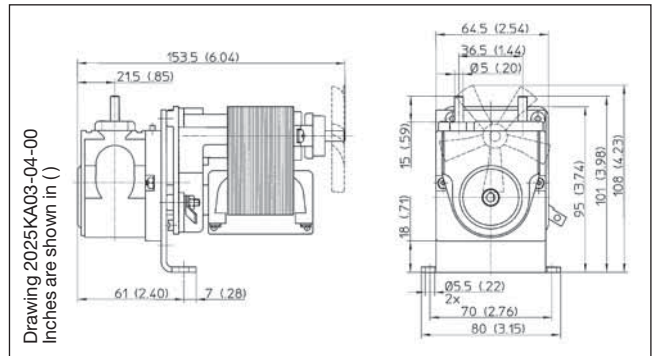
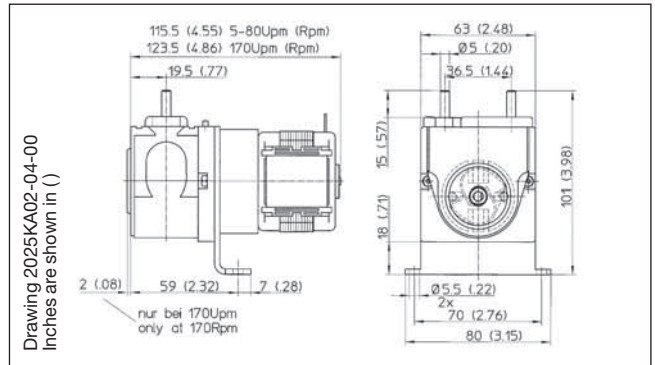
Flow 6 – 746 ml/min



SR25, 30 to 170 rpm
shaded pole motor



SR25 – 500 rpm
shaded pole motor¹⁾



Bore pattern to fit in a housing see page 14.

	Nominal speed				
	30 rpm	65 rpm	80 rpm	170 rpm ¹⁾	500 rpm ^{1) 3)}
Tubing Novoprene	Flow²⁾ ml/min				
N 1,6 x 1,6 mm	6		15		
Part number	20250009		20250893		
N 3,2 x 1,6 mm	21		56		
Part number	20250010		20250892		
N 4,1 x 1,6 mm	30	68	85	170	
Part number	20250881	20250886	20250891	20250899	
N 4,8 x 1,6 mm	40	90	110	220	690
Part number	20250880	20250884	20250020	20250898	20250913
Tubing Silicon	Flow²⁾ ml/min				
S 4,0 x 1,5 mm	32	70		173	
Part number	20251280	20250888		20250904	
S 5,0 x 1,5 mm	45	88	119	239	746
Part number	20250047	20250887	20250057	20250903	20250919
Electrical Data					
Voltage	230 V/50 Hz			230 V/50 Hz	230 V/50 Hz
Motor	Shaded pole motor			Shaded pole motor	Shaded pole motor
Power consumption	16 W			27 W	68 W
Motor insulation class	E			E	E
General Data					
Protection class	IP00			IP00	IP00
Weight	0,7 kg			0,85 kg	1,5 kg

2025... Stock programme

1) Pump with counter bearing
3) Fan

Material of tubing connectors:

Tubing Silicon: for all Ø PVC
Tubing Novoprene: Ø 1,6/3,2 mm – PVC
Ø 4,1/4,8 mm – PP

2) Note: The indicated values are average measured with water. The actual values depend on different parameters like quality and age of tubing, pressure of tubing beds, pressure ratios, viscosity, etc. (max deviation ± 10%) Please see page 4 for recommended running times and general data.

THOMAS
A Gardner Denver Product

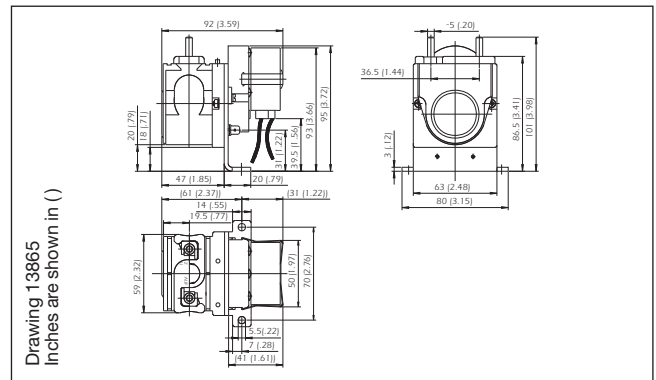
Peristaltic Pumps SR25

230 V/50 Hz, synchronous motor
Suitable for continuous operation

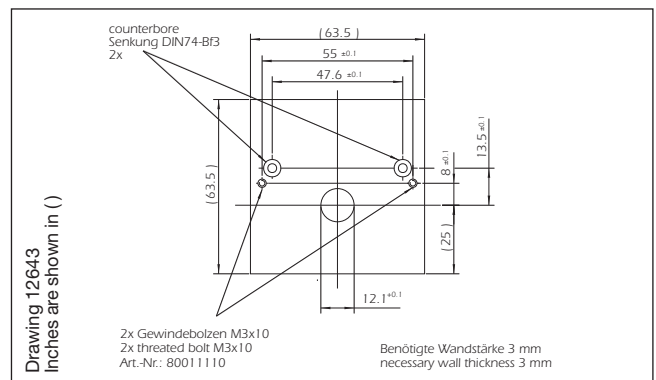
Flow 0,2 – 14 ml/min



SR25, 1 to 10 rpm
Synchronous motor



Bore pattern to fit
in a housing
(not illustrated)



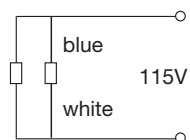
	Nominal speed		
	1 rpm	5 rpm	10 rpm
Tubing Novoprene	Flow ¹⁾ ml/min		
N 1,6 x 1,6 mm	0,2		
Part number	20251737		
N 3,2 x 1,6 mm		3,5	7,0
Part number		20251351	20251355
N 4,1 x 1,6 mm	1,0	5,0	10
Part number	20251739	20251352	20251356
N 4,8 x 1,6 mm	1,3	6,8	14
Part number	20251740	20251353	20251357
Electrical Data			
Voltage	230 (115) V/50 Hz		
Motor	Synchronous		
Power consumption	7,5 W		
Motor insulation class	E		
General Data			
Protection class	IP00		
Weight	0,39 kg		

2025... Stock programme

Electrical wiring:



Option:



Material of tubing connectors:

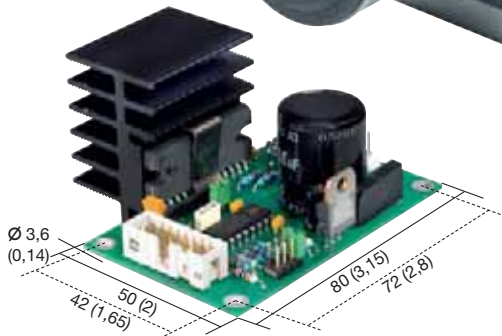
Tubing Novoprene: Ø 1,6/3,2 mm – PVC
Ø 4,1/4,8 mm – PP

2) Note: The indicated values are average measured with water. The actual values depend on different parameters like quality and age of tubing, pressure of tubing beds, pressure ratios, viscosity, etc. (max deviation ± 10%) Please see page 4 for recommended running times and general data.

Peristaltic Pumps SR25-S300

24 V DC with stepper motor
Circuit board recommended for
test purposes

Flow 0,1 – 430 ml/min

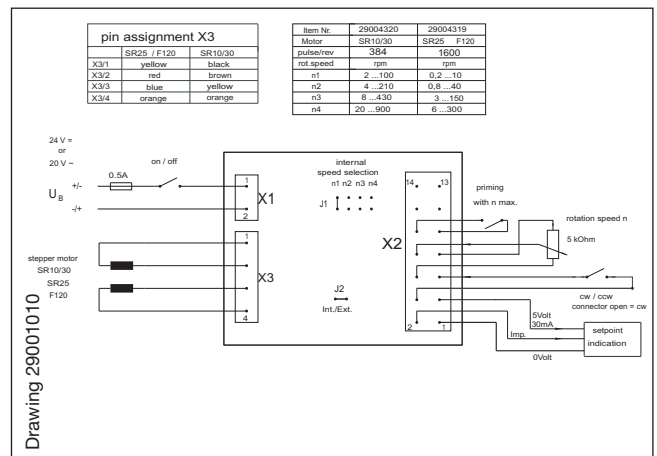
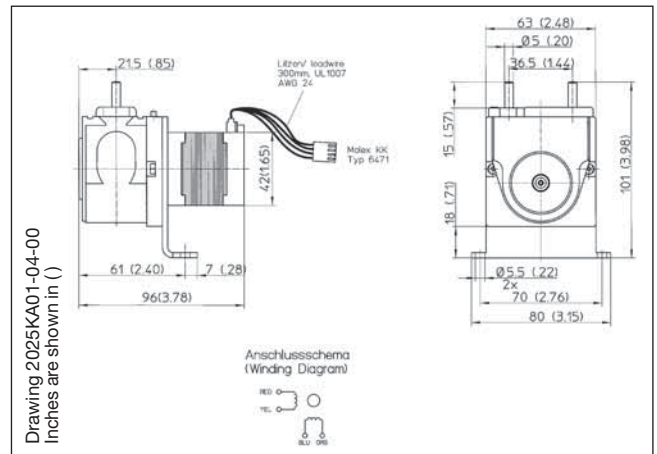


4 possible operating methods

- internal speed selection via jumper – option with wiring set¹⁾
- external speed selection
- analog input via pc
- digital input (clocked pulse)

Features

- speed pre-selection
- clockwise-, counter clockwise operation
- instant priming
- selective operating method



Adjustable range	I	II	III	IV
Speed	0,4 – 10 rpm	1,6 – 40 rpm	6 – 150 rpm	12 – 300 rpm
Tubing Novoprene	Max. flow²⁾ ml/min			
N 1,6 x 1,6 mm	0,1 – 2	0,3 – 7	1 – 26	2 – 55
Part number – pump without circuit board	20252200			
Part number – pump with circuit board	20252100			
N 3,2 x 1,6 mm	0,3 – 7	1 – 30	4 – 110	9 – 210
Part number – pump without circuit board	20252201			
Part number – pump with circuit board	20252101			
N 4,8 x 1,6 mm	0,6 – 14	2 – 60	9 – 215	20 – 430
Part number – pump without circuit board	20252202			
Part number – pump with circuit board	20252102			
Running Data				
On-time	Continuous operation			
Recommended rotating direction at continuous operation	Clockwise			
Electrical Data				
Nominal voltage (drive through electronic board)	24 V DC or 20 V AC			
Motor	Stepper motor, bipolar, stepping angle 1,8°			
Current consumption	0,8 A			
Max. restart consumption	5 A*			
Inductance at 1 kHz, 1 V	14 mH			
Winding resistance	6 Ω			
Motor insulation class	B			
General Data				
Material of the hose clip	PVDF			
Weight of the pump	0,5 kg			

* Delay fuse to be used.

1) Option: 200 mm 14-pole connecting cable with plug,
rocker switch for clockwise and lefthanded running
Potentiometer and speed-push-button, part number 29000702

2) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality
and age of tubing, pressure of tubing beds, pressure ratios,
viscosity, etc. (max deviation ± 10%)
Please see page 4 for recommended running times and
general data.

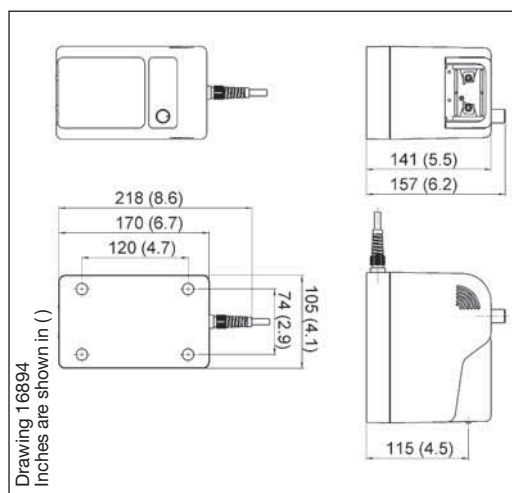
Peristaltic Pumps SR25 - Adjustable

Synchronous motor

Flow 0,2 – 21 ml/min



**SR25 – adjustable²⁾
plastic housing
with synchronous motor
(for wall fastening)**



Synchronous motor

Voltage: 230 V/50 Hz

Power consumption: 7,5 W

Tubing: Novoprene

Pressure height: max. 10 m H₂O

Suction height: max. 8 m H₂O

Flow range ¹⁾ ml/min	Tubing wall thickness Ø x mm	Part number with plastic housing
0,2 – 21	N 4,8 x 1,6 mm	20252402

EMC guide line

Interference resistance according to EN 50082-1

Emitted interference according to EN 55011 B

1) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality
and age of tubing, pressure of tubing beds, pressure ratios,
viscosity, etc. (max deviation ± 10%)
Please see page 4 for recommended running times and
general data.

2) Note: Instruction manual available in English and German. Other
languages on request.

Peristaltic Pumps SR25

Spare Parts SR25

Tubing with connectors	Tubing	Diameter x wall thickness	Connectors	Part number
	Novoprene	1,6 x 1,6 mm	PVC	92025500
	Novoprene	3,2 x 1,6 mm	PVC	92025501
	Novoprene	4,1 x 1,6 mm	PE	92025502
	Novoprene	4,8 x 1,6 mm	PE	92025503
	Test-set with all tubings			92025856
	Silicon	2,0 x 1,0 mm	PVC	92025507
	Silicon	3,0 x 1,5 mm	PVC	92025508
	Silicon	4,0 x 1,5 mm	PVC	92025509
	Silicon	5,0 x 1,5 mm	PVC	92025532
	Test-set with all tubings			92025857
	Option			
	PharMed BPT®	4,0 x 1,6 mm	PVDF	92025849
	PharMed BPT®	4,8 x 1,6 mm	PVDF	92025843
	Novoprene	1,6 x 1,6 mm	PVDF	92025552
	Novoprene	3,2 x 1,6 mm	PVDF	92025533
	Novoprene	4,1 x 1,6 mm	PVDF	92025549
	Novoprene	4,8 x 1,6 mm	PVDF	92025563

Roller carrier	Speed	SR25 AC	SR25 12 V DC	SR25 24 V DC	SR25 Synchron
	1 rpm	–	–	–	92025799 ²⁾
	5 rpm	–	–	–	92025799 ²⁾
	10 rpm	–	–	92025804 ²⁾	92025799 ²⁾
	30 rpm	92025803 ¹⁾	92025803 ¹⁾	92025803 ¹⁾	–
	65 rpm	92025803 ¹⁾	92025803 ¹⁾	92025803 ¹⁾	–
	80 rpm	92025803 ¹⁾	–	92025803 ¹⁾	–
	170 rpm	92025801 ¹⁾	92025806 ²⁾	92025806 ²⁾	–
	300 rpm	–	–	92025801 ¹⁾ (Steppermotor)	–
	500 rpm	92025801 ¹⁾	–	–	–

Pump body with clamp	Speed	Type	Part number
	1 – 10 rpm	SR25 Synchr.	92025625 (Counterbearing)
	10 – 80 rpm	SR25 AC/DC	92025630
	170 – 500 rpm	SR25 AC/DC	92025625 (Counterbearing)

Rolling band	Part number
	29008965

Clamp	Part number
	29020480

1) Clockwise direction

2) Counter clockwise direction

Peristaltic Pumps

Tubing Properties

Tube	Characteristics	Limitations
Novoprene	Standard tubing for the SR10/30, SR10/50 and SR25 Long lifetime Wide range of applications	May swell up with oil or oily liquids
Norprene®	Standard tubing for the SR10/100 Long lifetime Suitable especially for alkaline solutions	
PharMed BPT®	High quality for medical, laboratory and research use Homogeneous structure and therefore comparatively better chem. resistance Long lifetime Suitable for mineral, vegetable and animal oil	Expensive
Silicon	Suitable for polar solvents (with the exception of chlorinated aliphatic and aromatized hydrocarbon) No detachment of softening agents Very stable elasticity over a wide temperature range (-30 bis 180 °C)	Not recommended with strong acids or alkaline solutions Swells up in many organic solutions
Viton®	Quite good resistance especially against acids Low gas permeability	Limited lifetime

Choice of tubing depending on flow medium

		Novoprene	Norprene®	PharMed BPT®	Silicon	Viton®
Acids	weak	very good			good	very good
	medium	good			unsatisfactory	very good
	strong	not recommended			not recommended	good
Alkaline solution	weak	very good	very good		good	very good
	medium	good	very good		unsatisfactory	very good
	strong	not recommended	good		not recommended	good
Hydro-carbons	aliphatic	not recommended				good
	aromatized					
	halogenated					
Standards/physiological behaviour		basis material meets FDA (21 CFR 177.2600) doesn't fulfill the EU food requirement 2002/72/EC	not recommended for food, drinks or medicine	USP, class VI FDA (21 CFR 177.2600) NSF	physiologically inert	not recommended for food, drinks or medicine
Chemical structure		thermoplastic elastomer on PP-Basis with cross linked EPDM parts	thermoplastic elastomer on PP-Basis	thermoplastic elastomer on PP-Basis	high cross linked Polysiloxane with anorganic fillers	Fluorcarbonrubber

Peristaltic Pumps

Chemical Resistance Of Tubing Materials

N = Novoprene Nor = Norprene® Ph = PharMed BPT® S = Silicon V = Viton®

	N	Ph/Nor	S	V		N	Ph/Nor	S	V
Acetaldehyde	C	C	C	C	Hydrogen peroxide	A	A	C	A
Acetate	C	B	D	C	Hydrogen sulphide	A	A	C	C
Acetic acid	A	A	A	C	Isoprophyl alcohol	A	B	A	A
Acetic anhydride	A	A	C	C	Jodine	A	A	C	A
Acetone	C	C	A	C	Kaliumhydroxyde	A	A	C	C
Aluminium chloride	A	A	D	A	Ketones	C	C	-	C
Aluminium sulfate	A	A	A	A	Lactic acid	A	A	C	A
Ammonia	A	A	C	C	Magnesium chloride solution	A	A	A	A
Amyl acetate	C	B	C	C	Mercury salts	A	A	C	A
Amyl alcohol	A	C	C	A	Methanol	A	A	A	C
Amyl chloride	C	C	C	C	Methyl ethyl ketone	B	C	C	C
Aniline	A	B	C	C	Nitrous acid 10 %	B	A	C	A
Aqua regia	C	C	C	C	Oil, animal	B	B	B	A
Arsenic acid	C	C	A	A	Oil, hydraulic	C	C	D	A
Barium hydroxide	A	A	A	A	Oil, linseed	B	B	A	A
Benzaldehyde	C	C	C	C	Oil, mineral	C	C	C	A
Benzene	C	C	C	A	Oil, vegetable	C	B	A	A
Benzoic acid	A	B	B	A	Oleic acid	C	C	C	B
Benzylalcohol	-	A	B	A	Oxalic acid	B	B	B	A
Bleaching agent	B	A	A	A	Paraffins	C	C	-	B
Boric acid	A	A	A	A	Perchloric acid	C	C	C	A
Break liquid	A	A	A	C	Perchloroethylene	C	C	C	B
Bromine	C	C	C	A	Petrol	C	C	C	A
Butane	A	A	C	A	Phenol	A	A	C	A
Butanol	B	C	C	A	Phosphoric acid, 25 %	A	A	C	A
Calcium hypochlorite	A	A	B	A	Photographic solutions	B	B	A	A
Carbon disulphide	C	C	C	B	Phtalic acid, 9 %	-	A	A	A
Chloracetic acid	A	B	-	C	Potassium salts	A	A	A	A
Chlorine, liquid	C	C	C	A	Pyridine	C	C	C	C
Chlorobenzene	C	C	C	C	Soap solution	A	A	A	B
Chloroform	C	C	C	B	Sodium carbonate	A	A	A	A
Chromic acid 50 %	C	C	C	A	Sodium chloride	A	A	A	A
Chromium salts	A	A	C	A	Sodium hydroxide 40 %	A	A	B	C
Citric acid	B	B	A	C	Sodium hypochlorite <5%	A	A	B	A
Cyclohexane	C	C	C	B	Sodium hypochlorite 12 %	A	A	B	A
Diesel fuel	C	C	C	A	Sodium salt	A	A	A	A
Ethanol	A	A	C	C	Stearic acid, 5 %	B	A	B	A
Ether	C	C	C	C	Sulphurdioxide, wet gas	A	A	B	A
Ethyl alcohol	A	A	A	C	Sulphuric acid, 30 %	A	A	C	A
Ethyl chloride	A	A	C	B	Sulphuric acid, 75-100%	C	C	C	A
Ethylene glycol	-	A	A	A	Sulphurtrioxide	-	B	-	A
Ferric sulfate	A	A	A	A	Tannic acid	A	B	A	B
Fluor silicium acid	C	C	-	A	Tetrahydrofurane	C	C	C	A
Fluoroboric acid, 48 %	B	B	-	A	Toluole	C	C	C	C
Formaldehyde	B	C	B	C	Trichloroehtylene	B	B	C	B
Formamide	A	B	-	C	Turpentine	C	C	C	A
Formic acid	A	B	A	C	Urea	A	A	A	A
Furfural	C	C	-	C	Uric Acid	A	A	-	A
Hydrochloric acid	A	A	C	B	Xylene	C	C	C	C
Hydrocyanic acid	A	A	C	B	Zinc chloride	B	B	B	A

A = small or no effect
 B = minor or moderate effect
 C = severe effect
 D = no reliable data, please test before use
 - = no available data

Norprene®, PharMed BPT®, Viton® Du Pont, Norton Co. Reg. TM's,

The material resistance is influenced by temperature and concentration of the medium.
 The data have to be seen as indications and do not guarantee the material properties.



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