



Peristaltic Pumps

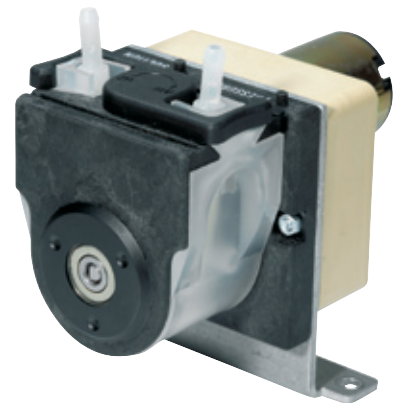
Series SR10 · SR15 · SR25



SR10/30



SR15



SR25

Product Features

- Compact design
- Quick change of cassette (SR10)/ tubing (SR25)
- Infinite tubing possible
- Self priming
- Safe to run dry
- Maintenance free
- Left- and right-handed run (only DC drive and stepper motor)
- Different tubing materials

Typical Applications

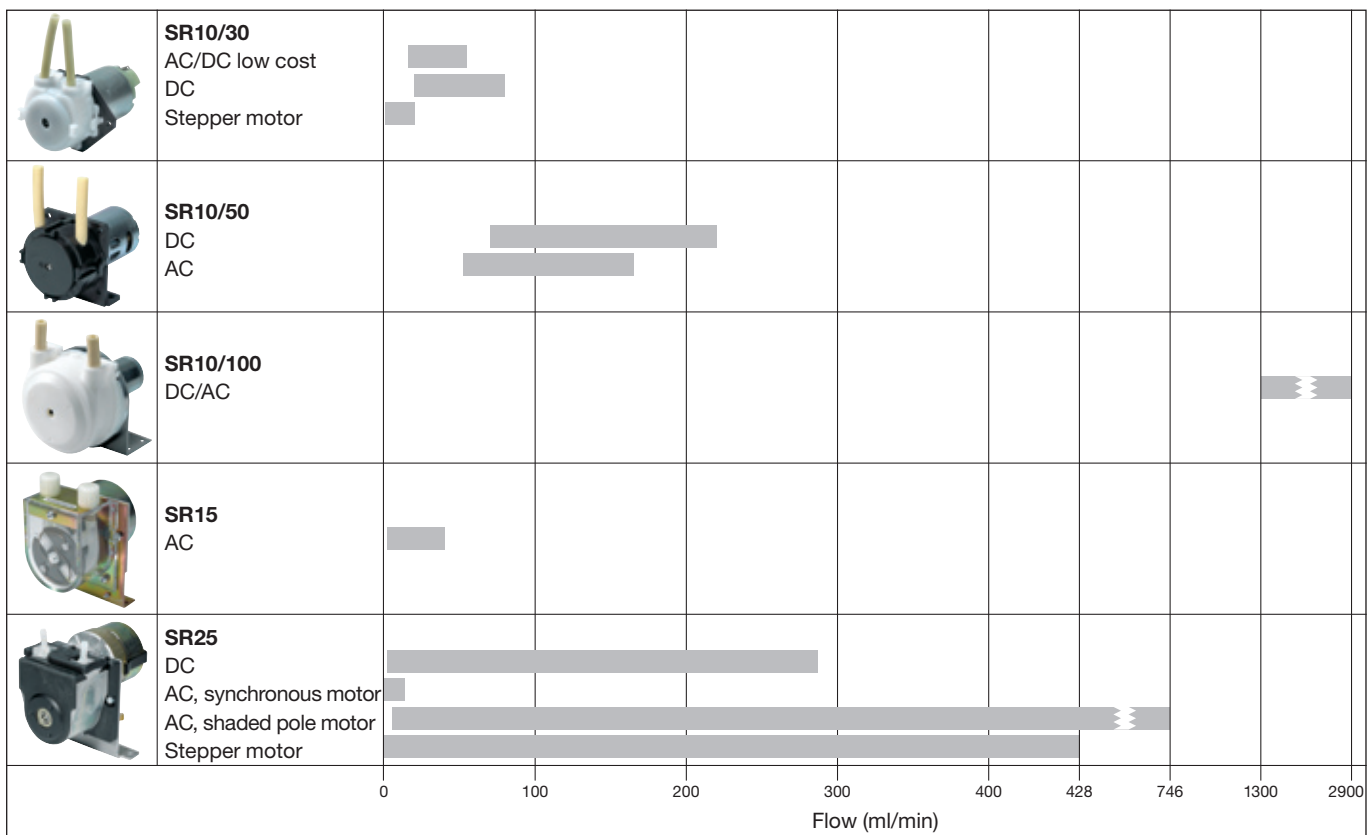
- Chemical industry
- Medical industry
- Laboratory and analysis technology
- Food sector
- Hygiene, disinfection



Peristaltic Pumps

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Characteristics overview



Preselection

		Voltage				Operations mode		Stand-by pump IP54		Drive		Page
		12/24 V DC	12/24 V DC LC motor	230 V AC	115 V AC	Continuous operation	Short-time operation	Fixed speed	Adjustable	100 V 50-60 Hz	Stepper motor	
	SR10/30	X	X	X			X				X	5 – 7
	SR10/50		X	X			X					8
	SR10/100	X		X			X	X				9
	SR15			X	X	X				X		11
	SR25	X		X	X	X	X	X	X	X	X	12 – 17



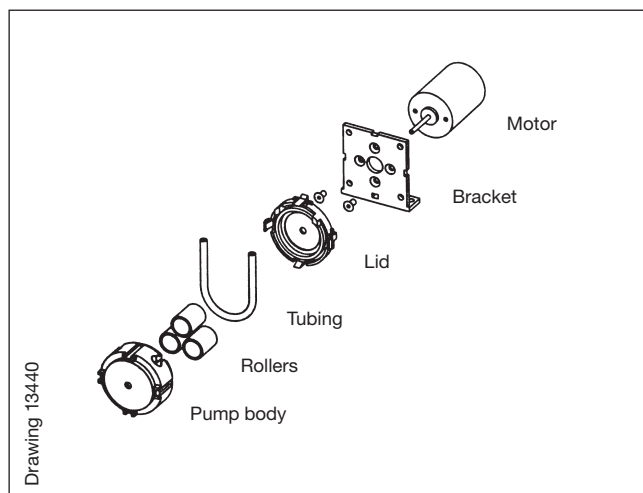
Peristaltic Pumps

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Series SR10



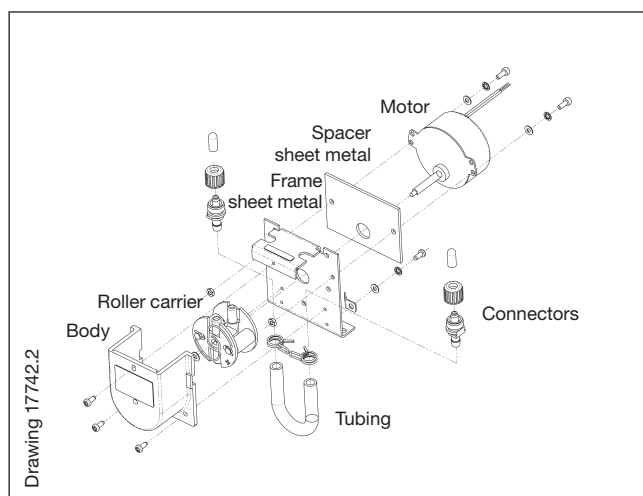
- Speedreduction through frictional connection from the motor shaft to the rollers.
- Verysimple construction with the use of few parts only.
- Easy change of the cassette.
- Generally 3 rollers.
- For short time operation only.
- Ifthe pump is stored more than three months, we recommend to take the cassette off the motor shaft and store it separately.
- Differentmotors available (DC, low cost DC, AC and stepper motor).



Series SR15



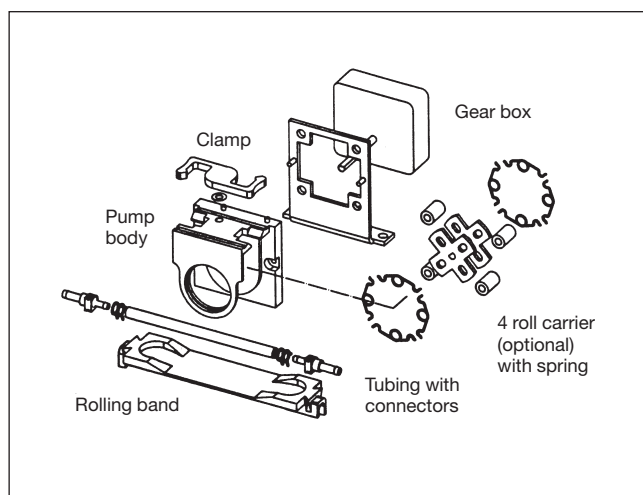
- Protectionof the tubing by using spring loaded rollers and guiding side rollers.
- Roller carrier with 2 rollers.
- Different AC-gear motors available.
- Competitively priced stock program.



Series SR25



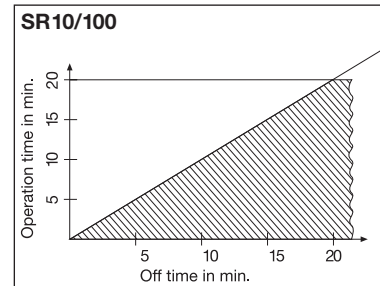
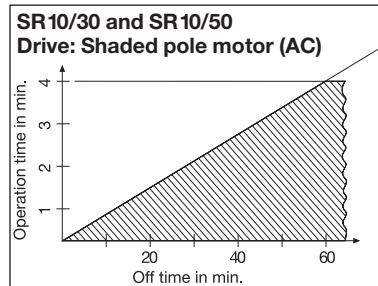
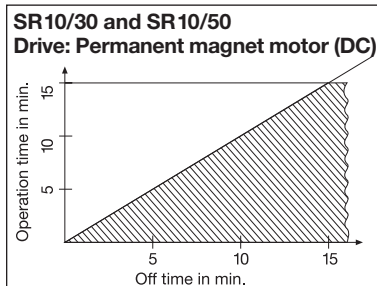
- Protectionof the tubing due to spring loaded rollers and guiding side rollers.
- Quick and easy change of the tubing.
- Roller carrier with two rollers.
- Alsosuitable for continuous operation, depending on the drive.
- Ifstored more than three months, we recommend to remove the tubing.
- Differentgear motors available (DC, AC and stepper motor).



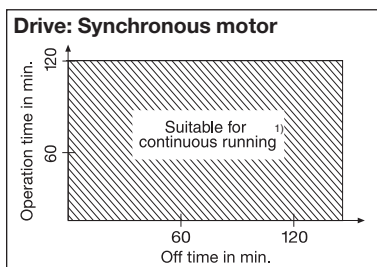


Duty cycles

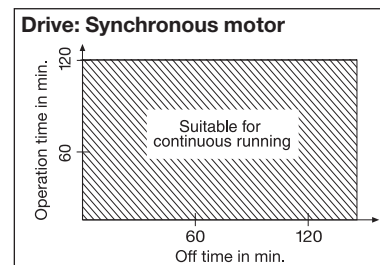
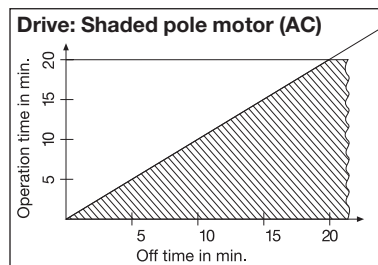
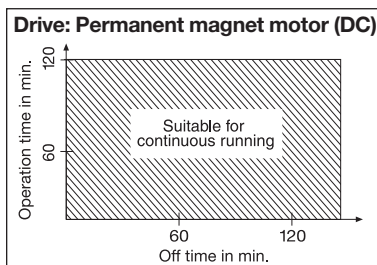
SR10



SR15



SR25



Lifetime	SR10			SR15	SR25	
	SR10/30	SR10/50	SR10/100	SR15 – 20 rpm	SR25 – 10 rpm	SR25 – 500 rpm
	Lifetime of the tubing					
Novoprene	500 h	500 h	200 h	4000 h	> 5000 h	500 h
Norprene®						
PharMed BPT®						
Silicon	200 h	200 h	–	1500 h	1500 h	100 h
	Other wearing parts					
Roller carrier	Change the complete cassette ²⁾ (see lifetime of the tubing)			4000 h	> 5000 h	500 h
Rolling band/lid						
	Drive					
DC motor	1000 h	1000 h	1000 h	–	3000 h	1000 h
AC motor	2000 h	2000 h	5000 h	–	5000 h	2000 h
AC synchronous motor	2000 h	–	–	4000 h	10000 h	–
General Data	SR10			SR15	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) Note the lifetime data.

2) We recommend to roughen the shaft in axial direction when changing the cassette (emery cloth grit size 150).

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



Peristaltic Pump SR10/30

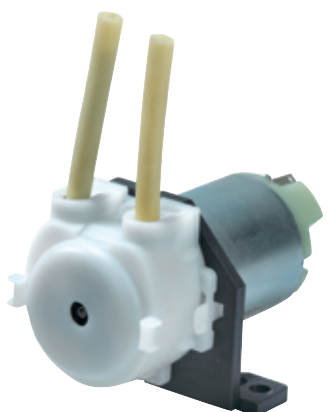
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230 V/50 Hz, 12/24 V low cost DC
For short time operation only

Flow **16 – 55 ml/min**

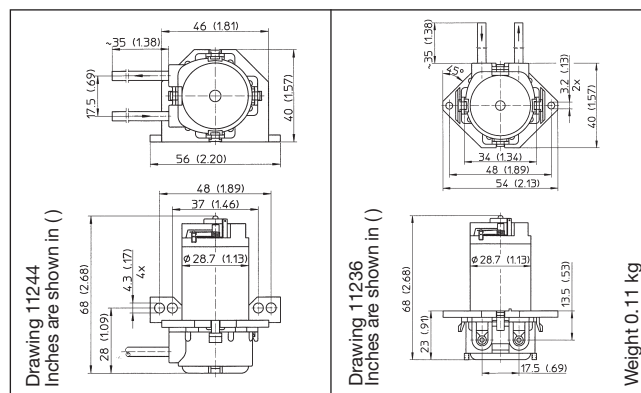
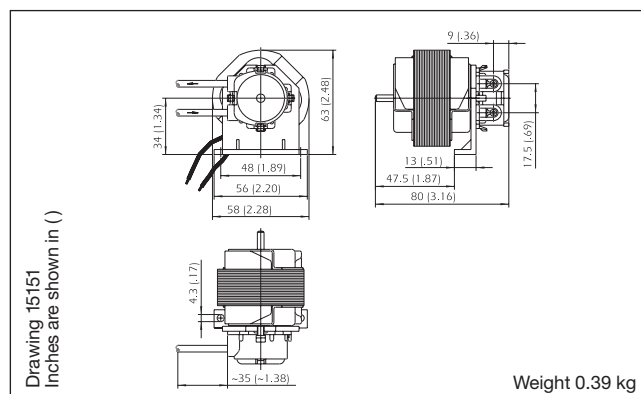


SR10/30 AC



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
			20300513	20300543	20300561	angled		
20300314	20300344		20300514	20300544		straight	1.5	28
20300315	20300345	20300362	20300515	20300545	20300562	angled		
20300316	20300346					straight	2.0	38
20300317	20300347	20300363				angled		
20300318	20300348		20300235	20300237		straight	2.5	55
20300319	20300349	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 program

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

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, pressures
proportions, viscosity, etc.
Please also have a look on page 4 regarding the recommended
running times and general data.



Peristaltic Pump SR 10/30 DC

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

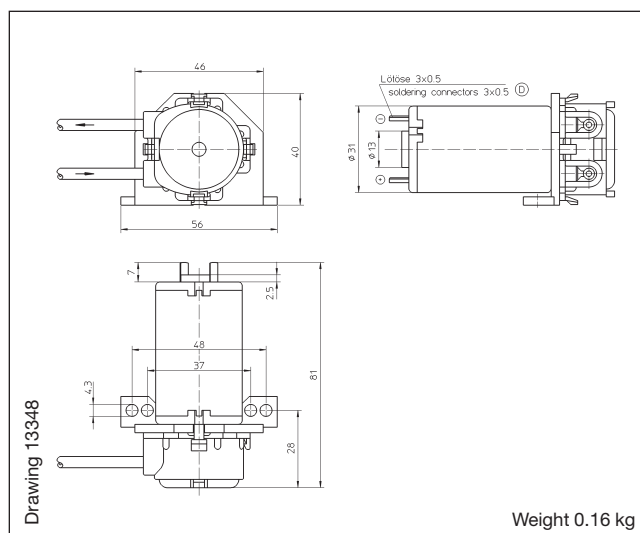
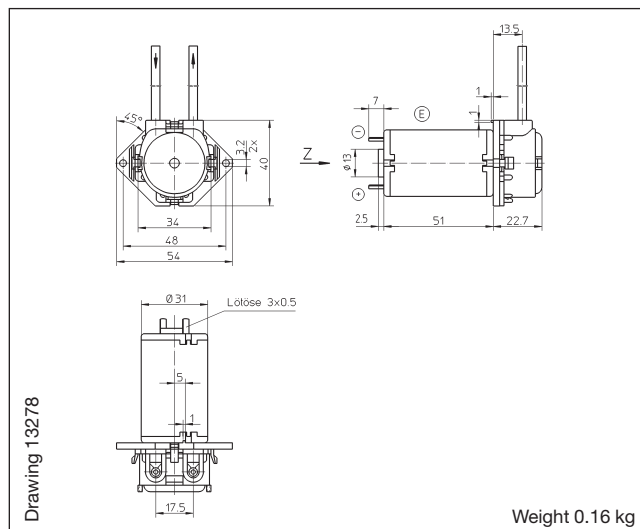
Flow **20 – 80 ml/min**



SR10/30 DC
Straight flange



SR10/30 DC
Angled flange



Tubing Novoprene		Tubing PharMed BPT®		Fixing	Inner tubing Ø mm	Flow ¹⁾ ml/min
12 V DC	24 V DC	12 V DC	24 V DC			
		20300137	20300141	straight	1.0	20
		20300139	20300143	angled		
20300122	20300130	20300138	20300142	straight	1.5	37
20300126	20300134	20300140	20300144	angled		
20300123	20300131			straight	2.0	55
20300127	20300135			angled		
20300124	20300132	20300380	20300382	straight	2.5	80
20300128	20300136	20300381	20300383	angled		

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

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, pressures
proportions, viscosity, etc.
Please also have a look on page 4 regarding the recommended
running times and general data.

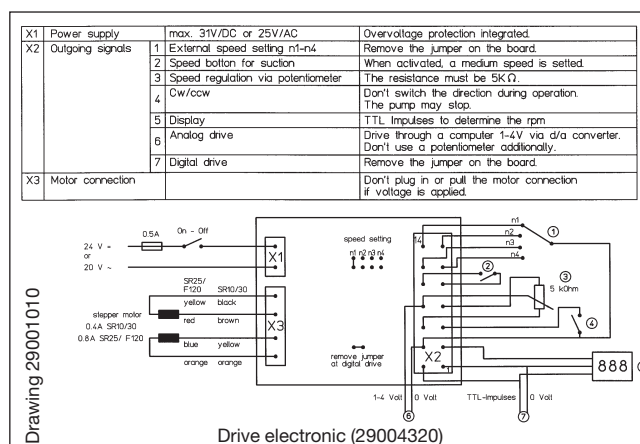
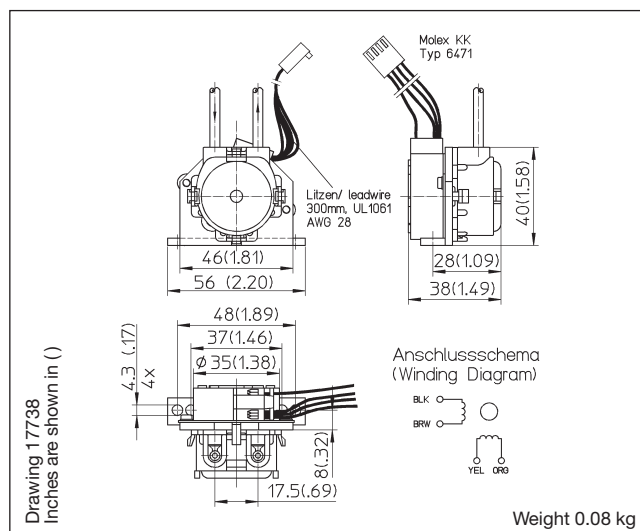
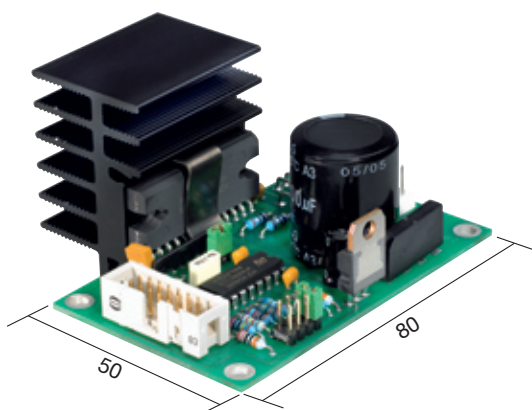


Peristaltic Pump SR10/30

THOMAS
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24 V DC with stepper motor
For short time operation only

Flow **0.25 – 20 ml/min**



Adjustable range	I	II	III	IV
Speed	4 – 100 rpm	8 – 210 rpm	16 – 430 rpm	40 – 900 rpm
Tubing PharMed BPT®	Max. flow¹⁾ ml/min (adjustable range 4 –100 %)			
Ph 0.75 x 1.15	0.26	0.55	1.1	2.4
Part number – pump without circuit board	20301011			
Part number – pump with circuit board	20301001			
Ph 1.0 x 1.1	0.48	1.0	2.1	4.3
Part number – pump without circuit board	20301012			
Part number – pump with circuit board	20301002			
Ph 1.5 x 1.1	1.1	2.3	4.7	9.7
Part number – pump without circuit board	20301013			
Part number – pump with circuit board	20301003			
Ph 2.5 x 1.0	2.3	4.8	9.8	20.4
Part number – pump without circuit board	20301014			
Part number – pump with circuit board	20301004			
Electrical Data				
Voltage	24 V/DC or 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			

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

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, pressures proportions, viscosity, etc.
Please also have a look on page 4 regarding the recommended running times and general data.



Peristaltic Pump SR 10/50

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

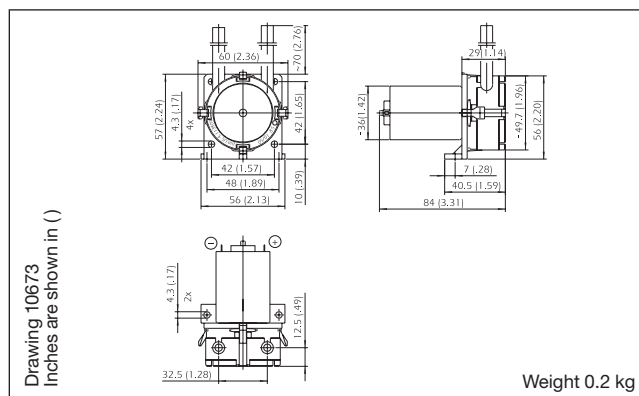
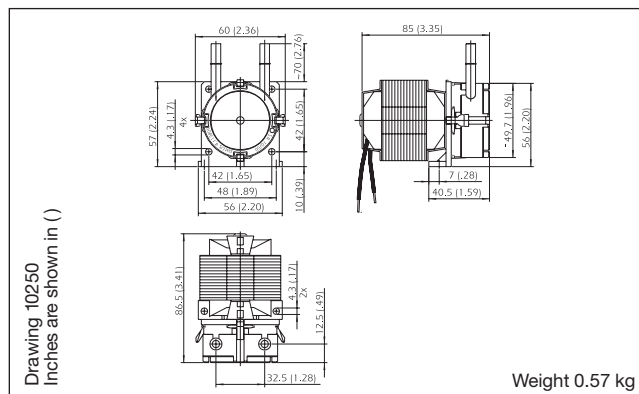
Flow 52 – 220 ml/min



SR10/50 AC



SR10/50 DC



Tubing Novoprene			Tubing PharMed BPT®			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		
			20500701	20500704	20500717	2.0	52
		20500519			20500718	2.4	70
20500501	20500505		20500702	20500705			75
		20500520				3.2	100
20500502	20500506						110
		20500521			20500719	4.1	170
20500503	20500507		20500703	20500706			165
							220

Tubing Silicon			Inner tubing Ø mm	Flow ¹⁾ ml/min
12 V DC	24 V DC	230/50 Hz		
		20500619	2.0	52
20500601	20500605			70
		20500620	2.5	75
20500602	20500606			100
		20500621	4.0	165
20500603	20500607			220

Option: Straight flange for flush mounting part number 20501 ...
Recommended inference suppression according to EN 55011 B (CE-conform)
12/24 V DC – with additional circuit board 29004264

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, pressures
proportions, viscosity, etc.
Please also have a look on page 4 regarding the recommended
running times and general data.

2050... Stock program



Peristaltic Pump SR 10/100

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

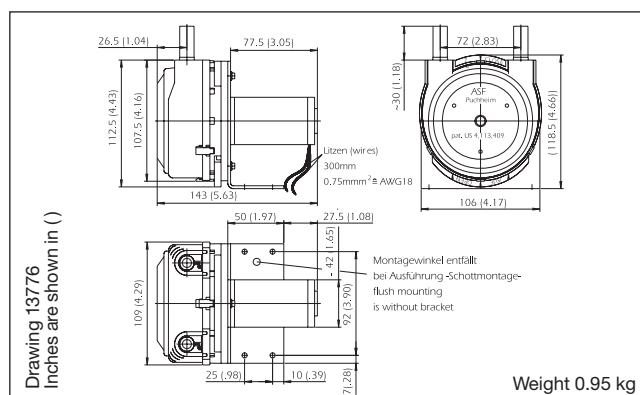
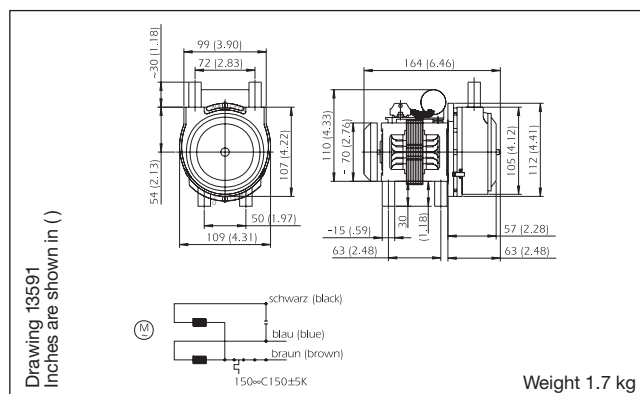
Flow 1300 – 2900 ml/min



SR10/100 AC
Also available
with an IP54 motor,
cable and plug
part number 21000101



**SR10/100 DC
With bracket**



Tubing Norprene®		Tubing PharMed BPT®		Fixing	Inner tubing Ø mm	Flow ¹⁾ l/min
12 V DC	24 V DC	12 V DC	24 V DC			
21001006	21001007	21001106	21001107	bracket	6.35	1.3
21001012	21001013	21001112	21001113	flush mount		
21001008	21001009	21001108	21001109	bracket	8.0	2.3
21001014	21001015	21001114	21001115	flush mount		
21001010	21001011	21001110	21001111	bracket	9.5	2.9
21001016	21001017	21001116	21001117	flush mount		

Tubing Norprene®		Tubing PharMed BPT®		Motor speed rpm	Inner tubing Ø mm	Flow ¹⁾ l/min
230 V/50 Hz		230 V/50 Hz				
21001000		21001100		2800	6.35	1.3
21001001		21001101		2800	8.0	2.3
21001002		21001102		2800	9.5	2.9

Option: Recommended inference suppression according to EN 55011 B (CE-conform)
12/24 V DC – with additional circuit board 29004256

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

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, pressures
proportions, viscosity, etc.
Please also have a look on page 4 regarding the recommended
running times and general data.



Peristaltic Pump Series SR 10

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Spare parts SR10 series

	Tubing		Drive	
	Material	I.D x W.T	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®	.75 x 1.1 mm		92030632
	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®	2.0 x 1.6 mm		92050585
	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
	PharMed BPT®	6.35 x 2.4 mm		92100515
	PharMed BPT®	8.0 x 2.4 mm		92100516
	PharMed BPT®	9.5 x 2.4 mm		92100517

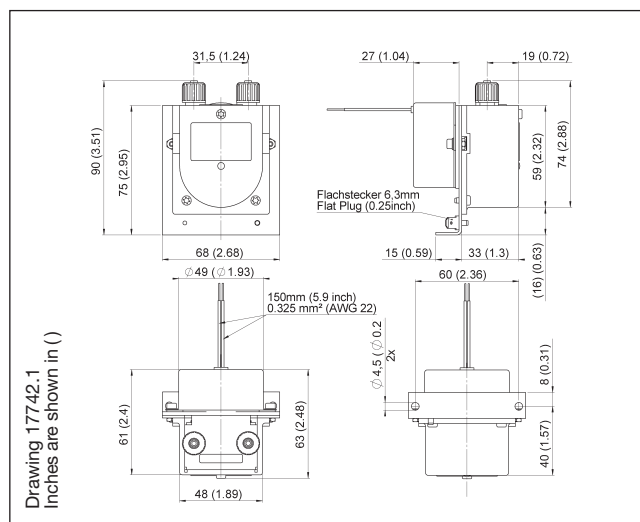


Peristaltic Pump SR15

THOMAS
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115 V/60 Hz, synchronous gear motor
Suitable for continuous running¹⁾

Flow 1.8 – 40 ml/min



	Nominal speed	
	10 rpm	20 rpm
Tubing Novoprene	Flow ¹⁾ ml/min	
N 1.6 x 1.6 mm	1.8	
Part number	20150204	
N 3.2 x 1.6 mm	7	
Part number	20150200	
N 4.1 x 1.6 mm	11	22
Part number	20150201	20150301
N 4.8 x 1.6 mm	14	28
Part number	20150202	20150302
N 6.0 x 1.6 mm	20	40
Part number	20150203	20150303
Tubing Silicon	Flow ¹⁾ ml/min	
S 2.0 x 1.0 mm	2.8	
Part number	20150214	
S 3.0 x 1.0 mm	6.2	
Part number	20150215	
S 4.0 x 1.5 mm	10	20
Part number	20150211	20150311
S 5.0 x 1.5 mm	15	31
Part number	20150212	20150312
S 6.0 x 1.5 mm	20	40
Part number	20150213	20150313
Electrical Data		
Voltage	230 V/50 Hz ²⁾	
Motor	Synchronous	
Motor isolation class	A (UL)	
Power consumption	4.5 W	
General Data		
Connector material	PP (Polypropylene)	
Weight	0.28 kg	

2015... Stock program

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, pressures proportions, viscosity, etc. Please also have a look on page 4 regarding the recommended running times and general data.

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



Peristaltic Pump SR25

THOMAS
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12/24 V, Direct current motor

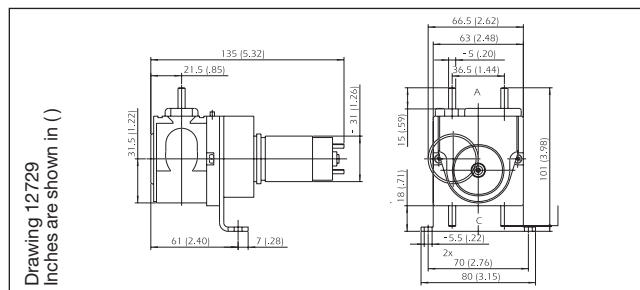
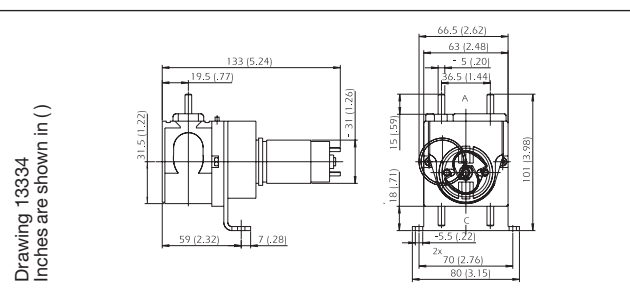
Flow 2.3 – 287 ml/min



**SR25, 10 to 80 rpm
Direct current motor**



**SR25 – 170 rpm
Direct current motor**



Bore pattern to fit in a housing see page 16 below.

	Nominal speed				
	10 rpm	30 rpm	65 rpm	80 rpm	170 rpm
Tubing Novoprene	Flow ¹⁾ ml/min				
N 1.6 x 1.6 mm	2.3	6.7	14.4		
Part number 12 V		20251397	20251410		
Part number 24 V	20251388	20251401	20250266		
N 3.2 x 1.6 mm	8.4	25	56	67	
Part number 12 V		20251398	20251411	–	
Part number 24 V	20251371	20251255	20251412	20251425	
N 4.1 x 1.6 mm	12.0	36	82	102	204
Part number 12 V		20251399	20250083	–	20251261
Part number 24 V	20251389	20251402	20250082	20251010	20250396
N 4.8 x 1.6 mm	17	48	118	132	264
Part number 12 V		20251400	20250426	–	20251224
Part number 24 V	20251247	20251403	20251413	20250287	20250130
Tubing Silicon	Flow ¹⁾ ml/min				
S 2.0 x 1.0 mm	3.5	10.6	24		
Part number 12 V		20251404	20251414	–	
Part number 24 V	20251394	20251407	20251418		
S 3.0 x 1.0 mm	6.5	19	43	52	
Part number 12 V		20251405	20251415	–	
Part number 24 V	20251395	20251408	20251419	20251433	
S 4.0 x 1.5 mm	13	38	84	103	208
Part number 12 V		20250302	20251416	–	20250228
Part number 24 V	20251396	20251409	20250746	20251434	20250901
S 5.0 x 1.5 mm	18	54	116	143	287
Part number 12 V		20251406	20251417	–	20251441
Part number 24 V	20250092	20251366	20251420	20251435	20251444
Electrical Data					
Motor	Direct current motor				
Power consumption	2 W		3.5 W		7 W
General Data					
Weight	0.6 kg				

2025... Stock program

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 29002445

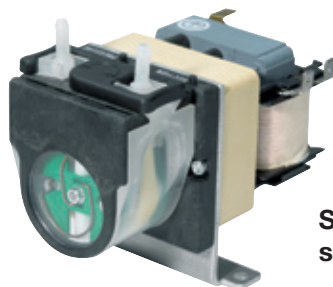
1) Note: The indicated values are average measured with water.
The actual values depend on different parameters like quality and age of tubing, pressure of tubing beds, pressures proportions, viscosity, etc.
Please also have a look on page 4 regarding the recommended running times and general data.



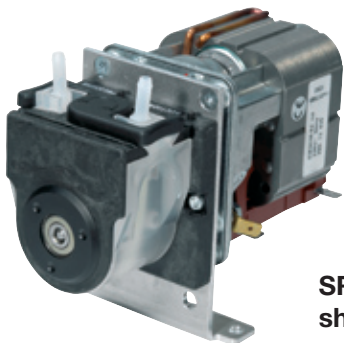
Peristaltic Pump SR25

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

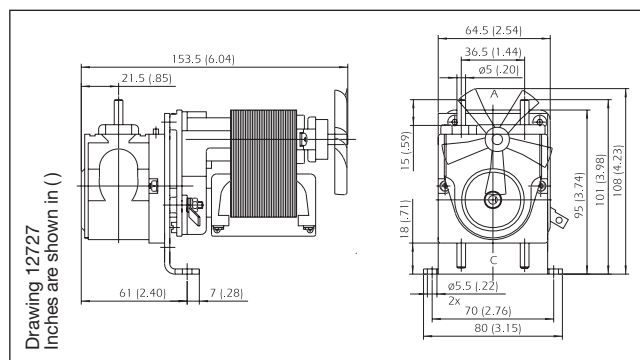
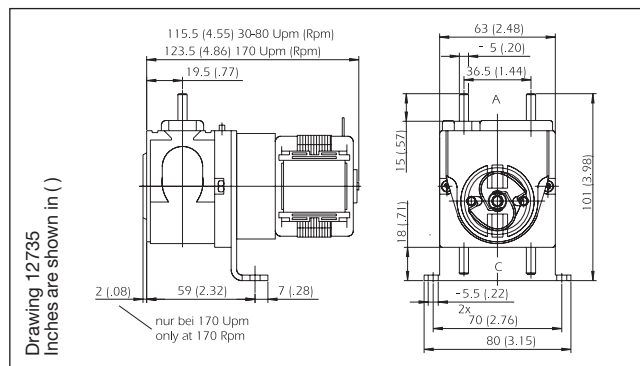
Flow 5.6 – 746 ml/min



SR25, 30 to 170 rpm shaded pole motor



SR25 – 500 rpm shaded pole motor



Bore pattern to fit in a housing see page 16 below.

	Nominal speed				
	30 rpm	65 rpm	80 rpm	170 rpm	500 rpm
Tubing Novoprene	Flow ¹⁾ ml/min				
N 1.6 x 1.6 mm	5.6	12	15		
Part number	20250009	20250013	20250893		
N 3.2 x 1.6 mm	21	47	56	113	374
Part number	20250010	20250014	20250892	20250900	20250916
N 4.1 x 1.6 mm	30	68	85	170	545
Part number	20250881	20250886	20250891	20250899	20250914
N 4.8 x 1.6 mm	40	90	110	220	690
Part number	20250880	20250884	20250020	20250898	20250913
Tubing Silicon	Flow ¹⁾ ml/min				
S 2.0 x 1.0 mm	8.8	20	24		
Part number	20250883	20250890	20250897		
S 3.0 x 1.0 mm	16	36	43		
Part number	20250882	20250889	20250896		
S 4.0 x 1.5 mm	32	70	86	173	546
Part number	20251280	20250888	20250895	20250904	20250920
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 isolation class	E			E	E
General Data					
Protection class	IP00			IP00	IP00
Weight	0.7 kg			0.85 kg	1.5 kg

Order code: **SR25 - 10 RPM / N4.8 x 1.6**

Nominal speed Inner Ø x wall thickness

Type

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

Tubing quality:
 S = Silicon
 N = Novoprene

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, pressures proportions, viscosity, etc. Please also have a look on page 4 regarding the recommended running times and general data.



Peristaltic Pump SR25

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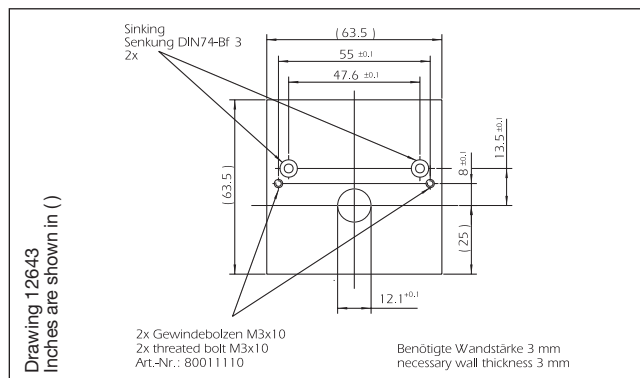
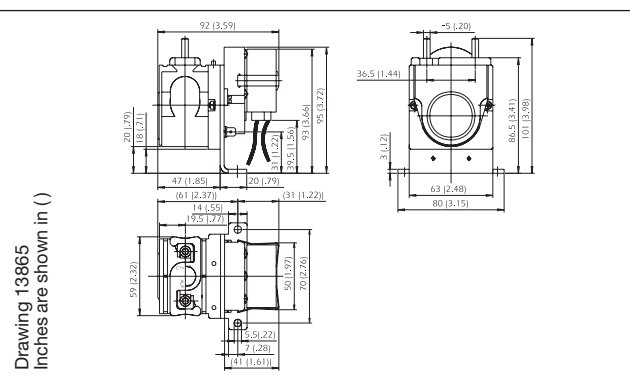
115 V/60 Hz, synchronous motor
Suitable for continuous operation

Flow **0.18 – 14 ml/min**



SR25, 1 to 10 rpm
Synchronous motor

Bore pattern to fit
in a housing
(not illustrated)



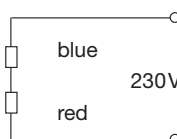
	Nominal speed		
	1 rpm	5 rpm	10 rpm
Tubing Novoprene	Flow ¹⁾ ml/min		
N 1.6 x 1.6 mm	0.18	1.0	1.9
Part number	20251737	20251350	20251354
N 3.2 x 1.6 mm	0.68	3.4	7.0
Part number	20251738	20251351	20251355
N 4.1 x 1.6 mm	1.0	5.0	10
Part number	20251739	20251352	20251356
N 4.8 x 1.6 mm	1.3	6.8	14
Part number	20251740	20251353	20251357
Electrical Data			
Voltage	230 (115) V/50 Hz		
Motor	Synchronous		
Power consumption	7.5 W		
Motor isolation class	E		
General Data			
Protection class	IP00		
Weight	0.39 kg		

Material of tubing connectors:

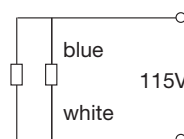
Tubing Novoprene: Ø 1.6/3.2 mm – PVC
Ø 4.1/4.8 mm – PP

Nominal speed Inner Ø x wall thickness
Order code: **SR25 - 10 RPM / N4.8 x 1.6**
Type
Tubing quality:
S = Silicon
N = Novoprene

Electrical wiring:



Option:



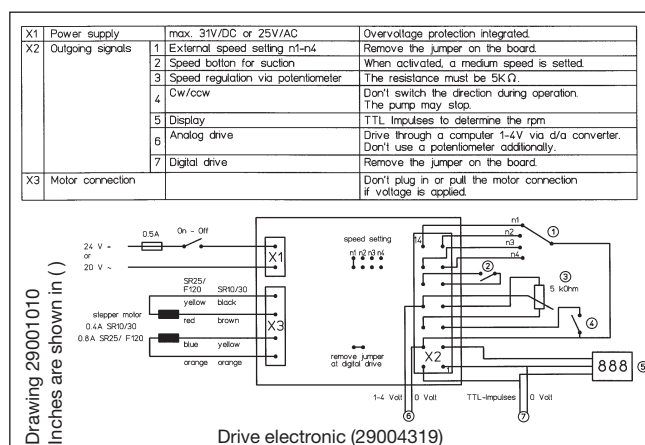
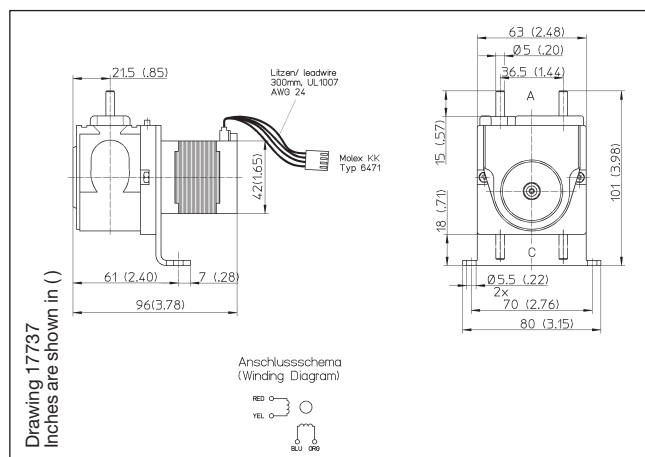
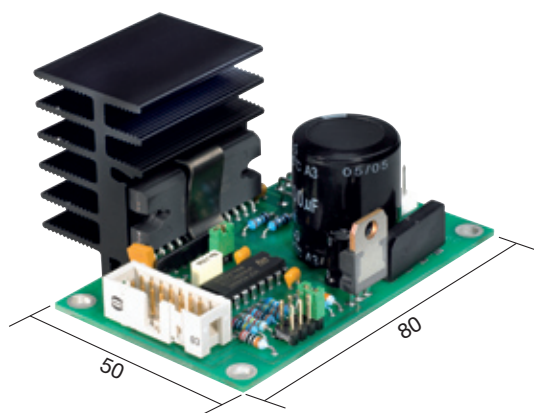
1) Note: The indicated values are average measured with water. The actual values depend on different parameters like quality and age of tubing, pressure of tubing beds, pressures proportions, viscosity, etc. Please also have a look on page 4 regarding the recommended running times and general data.



Peristaltic Pump SR25-S300

24 V DC with stepper motor

Flow 0.1 – 428 ml/min



Adjustable range	I	II	III	IV
Speed	0.4 – 10 rpm	1.6 – 40 rpm	6 – 150 rpm	12 – 300 rpm
Tubing Novoprene	Max. flow¹⁾ ml/min			
N 1.6 x 1.6 mm	0.1 – 1.8	0.28 – 7	1.1 – 26	2.1 – 53
Part number – pump without circuit board	20252200			
Part number – pump with circuit board	20252100			
N 3.2 x 1.6 mm	0.28 – 7	1.1 – 28	4.2 – 106	8.5 – 212
Part number – pump without circuit board	20252201			
Part number – pump with circuit board	20252101			
N 4.8 x 1.6 mm	0.57 – 14	2.3 – 57	8.6 – 214	17 – 428
Part number – pump without circuit board	20252202			
Part number – pump with circuit board	20252102			
Running Data				
On-time	Continuous operation			
Recommended rotating direction with continuously operation	Clockwise			
Electrical Data				
Voltage	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 isolation class	B			
General Data				
Material of the hose clip	PVDF			
Weight of the pump	0.5 kg			

2025... Stock program

* Use delay fuse.

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, pressures proportions, viscosity, etc. Please also have a look on page 4 regarding the recommended running times and general data.

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



Peristaltic Pump SR25 – Adjustable

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Direct current motor or synchronous motor

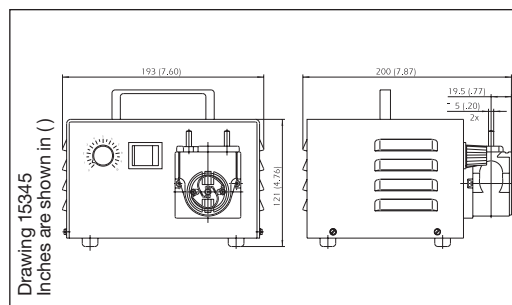
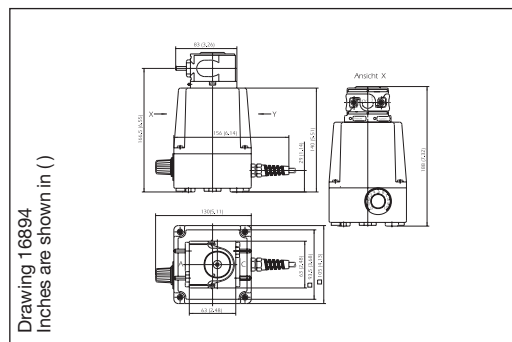
Flow **20 – 300 ml/min**



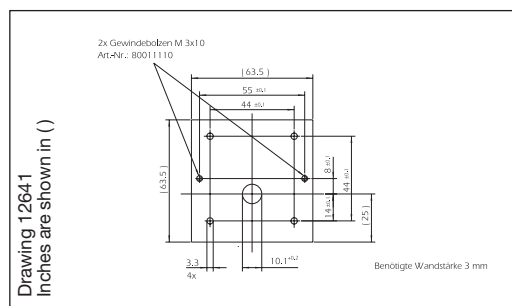
SR25 – adjustable plastic housing with synchronous motor or permanent magnet motor



SR25 – adjustable DC motor sheet metal housing



Bore pattern to fit in a housing for pumps with a DC motor (and shaded pole motor)



Direct current motor

Voltage: 230 V/50 Hz

Power consumption: 7 W

Tubing: Novoprene 4.8 x 1.6 mm

Pressure height: max. 10 m H₂O

Suction height: max. 8 m H₂O

Flow range ¹⁾ ml/min	Speed of the pump rpm	Part number with housing	
		plastic	sheet metal
20 – 80	30	20251636	20251632
80 – 300	170	20251885	20251633

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 dimension mm	Part number with plastic housing
0.21 – 21	N 4.8 x 1.6 mm	20251638

2025... Stock program

The pump is driven by a direct current motor, which is supplied with 230V/50Hz through an output regulator and a mains supply.

EMC guide line

Resistance to jamming according to EN 50082-1 and EN 50082-2

Interference suppression according to EN 55011 B

EMC guide line

Resistance to jamming according to EN 50082-1

Interference suppression 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, pressures proportions, viscosity, etc. Please also have a look on page 4 regarding the recommended running times and general data.



Peristaltic Pump SR25

Spare Parts SR25

Tubing with connectors



Tubing	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 1.0 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
5 rpm	–	–	–	92025799
10 rpm	–	92025804	92025804	92025799
30 rpm	92025803	92025804	92025803	–
65 rpm	92025803	92025803	92025803	–
80 rpm	92025803	–	92025803	–
170 rpm	92025801	92025806	92025806	–
500 rpm	92025801	–	–	–

Pump body with clamp



Speed	Type	Part number
1 – 10 rpm	SR25 Synchr.	92025625
10 – 80 rpm	SR25 AC/DC	92025630
170 – 500 rpm	SR25 AC/DC	92025625

Rolling band



Part number
29008965

Clamp



Part number
29020480



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	Additives and black pigments may leach out
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 to 180 °C)	Not recommended with strong acids or alkaline solution 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 medium strong	very good good not recommended			good unsatisfactory not recommended	very good very good good
Alkaline solution	weak medium strong	very good good not recommended	very good very good good		good unsatisfactory not recommended	very good very good good
Hydro-carbons	aliphatic aromatized halogenated	not recommended				good
Standards/ physiological behavior		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-Basic with cross linked EPDM parts	thermoplastic elastomer on PP-Basic	thermoplastic elastomer on PP-Basic	high cross linked Polysiloxane with anorganic fillers	Fluorcarbonrubber



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	Urea	A	A	A	A
Acetate	C	B	D	C	Uric Acid	A	A	-	A
Acetone	C	C	A	C	Isopropyl alcohol	A	B	A	A
Aluminium chloride	A	A	D	A	Jodine	A	A	C	A
Aluminium sulfate	A	A	A	A	Kaliumhydroxyde	A	A	C	C
Formic acid	A	B	A	C	Potassium salts	A	A	A	A
Ammonia	A	A	C	C	Ketones	C	C	-	C
Amyl acetate	C	B	C	C	Aqua regia	C	C	C	C
Amyl alcohol	A	C	C	A	Oil, linseed	B	B	A	A
Amyl chloride	C	C	C	C	Magnesium chloride solution	A	A	A	A
Aniline	A	B	C	C	Methanol	A	A	A	C
Arsenic acid	C	C	A	A	Methyl ethyl ketone	B	C	C	C
Ether	C	C	C	C	Lactic acid	A	A	C	A
Ethyl alcohol	A	A	A	C	Sodium chloride	A	A	A	A
Barium hydroxide	A	A	A	A	Sodium hydroxide 40 %	A	A	B	C
Benzaldehyde	C	C	C	C	Sodium hypochlorite <5%	A	A	B	A
Petrol	C	C	C	A	Sodium hypochlorite 12 %	A	A	B	A
Benzoic acid	A	B	B	A	Sodium carbonate	A	A	A	A
Benzene	C	C	C	A	Sodium salt	A	A	A	A
Benzylalcohol	-	A	B	A	Oil, hydraulic	C	C	D	A
Hydrocyanic acid	A	A	C	B	Oil, mineral	C	C	C	A
Bleaching agent	B	A	A	A	Oil, vegetable	C	B	A	A
Boric acid	A	A	A	A	Oil, animal	B	B	B	A
Break liquid	A	A	A	C	Oleic acid	C	C	C	B
Bromine	C	C	C	A	Oxalic acid	B	B	B	A
Butane	A	A	C	A	Paraffins	C	C	-	B
Butanol	B	C	C	A	Perchloroethylene	C	C	C	B
Calcium hypochlorite	A	A	B	A	Perchloric acid	C	C	C	A
Carbon disulphide	C	C	C	B	Phenol	A	A	C	A
Chlorine, liquid	C	C	C	A	Phosphoric acid, 25 %	A	A	C	A
Chlorobenzene	C	C	C	C	Phtalic acid, 9 %	-	A	A	A
Chloroacetic acid	A	B	-	C	Pyridine	C	C	C	C
Chloroform	C	C	C	B	Mercury salts	A	A	C	A
Chromium salts	A	A	C	A	Nitrous acid 10 %	B	A	C	A
Chromic acid 50 %	C	C	C	A	Hydrochloric acid	A	A	C	B
Cyclohexane	C	C	C	B	Sulphurdioxide, wet gas	A	A	B	A
Diesel fuel	C	C	C	A	Sulphuric acid, 30 %	A	A	C	A
Ferric sulfate	A	A	A	A	Sulphuric acid, 75-100%	C	C	C	A
Photographic solutions	B	B	A	A	Sulphurtrioxide	-	B	-	A
Acetic acid	A	A	A	C	Hydrogen sulphide	A	A	C	C
Acetic anhydride	A	A	C	C	Soap solution	A	A	A	B
Ethanol	A	A	C	C	Stearic acid, 5 %	B	A	B	A
Ethyl chloride	A	A	C	B	Turpentine	C	C	C	A
Ethylene glycol	-	A	A	A	Tetrahydrofurane	C	C	C	A
Fluoroboric acid, 48 %	B	B	-	A	Toluole	C	C	C	C
Fluor silicium acid	C	C	-	A	Trichloroethylene	B	B	C	B
Formaldehyde	B	C	B	C	Hydrogen peroxide	A	A	C	A
Formamide	A	B	-	C	Xylene	C	C	C	C
Furfural	C	C	-	C	Zinc chloride	B	B	B	A
Tannic acid	A	B	A	B	Citric acid	B	B	A	C

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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