

FEATURES

- > 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

TYPICAL APPLICATIONS

- > Dispensing of detergent in industrial dishwashers

BASE MODEL



Peristaltic

SR18 AC Synchronous

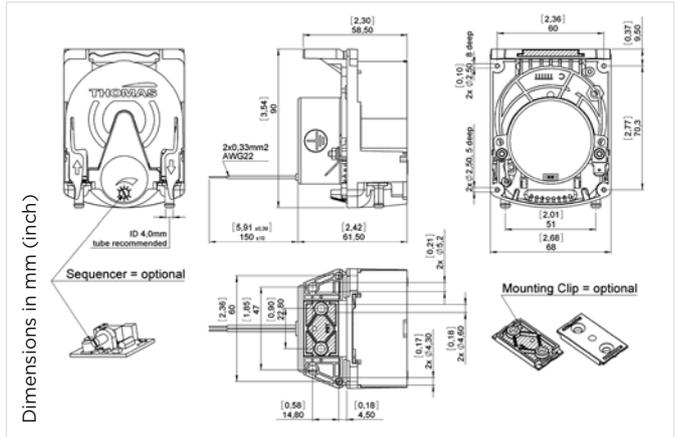
230 V/50 Hz, synchronous gear motor
Suitable for continuous running

Flow **5 – 50 ml/min**



Tubeing QuiXchange

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



	Nominal speed	QuiXchange
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	15 rpm	
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Tubing Novoprene (ID x WT)	Flow ¹⁾ ml/min	Tubing only
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N 6.0 x 1.6 mm	50	
Part number – pump without sequencer	20180251	92018551
Part number – pump with sequencer	20181251	92018551
N 4.1 x 1.6 mm	20	
Part number – pump without sequencer	20180252	92018552
Part number – pump with sequencer	20181252	92018552
N 2.4 x 1.6 mm	10	
Part number – pump without sequencer	20180253	92018553
Part number – pump with sequencer	20181253	92018553
N 1.6 x 1.6 mm	5	
Part number – pump without sequencer	20180254	92018554
Part number – pump with sequencer	20181254	92018554

Tubing Silicone (ID x WT)	Flow ¹⁾ ml/min	Tubing only
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S 5.0 x 1.6 mm	40	
Part number – pump without sequencer	20180202	92018502
Part number – pump with sequencer	20181202	92018502
S 4.0 x 1.6 mm	25	
Part number – pump without sequencer	20180203	92018503
Part number – pump with sequencer	20181203	92018503
S 2.5 x 1.6 mm	10	
Part number – pump without sequencer	20180201	92018501
Part number – pump with sequencer	20181201	92018501

Running Data		
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Rotation direction	clockwise	
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Electrical Data	
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Voltage	230 V/50 Hz
Motor	synchronous
Motor insulation class	E
Power consumption	5.5 W

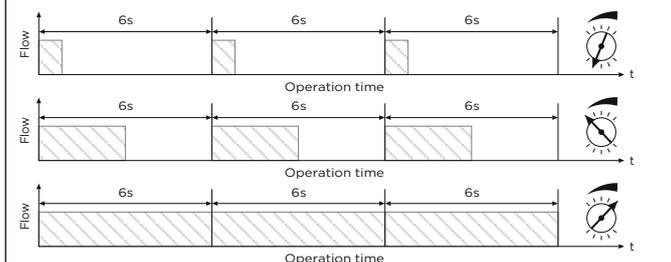
General Data	
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Connector material	PP
Weight	0.23 kg

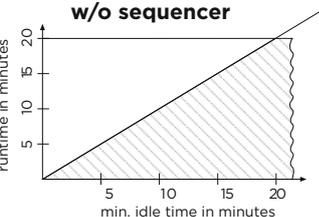
Duty cycles	
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Tube lifetime	
Novoprene	4000 h ²⁾
PharMed BPT®	500 h ²⁾
Silicone	500 h ²⁾
Other wearing parts	
Roller carrier	2500 h ²⁾
Rolling band/lid	2500 h ²⁾
Drive	
AC Synchronous Motor	4000 h ²⁾

Drive: Synchronous motor with sequencer	
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Drive: Synchronous motor w/o sequencer	
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2018... Stock programme

Art. Nr. 29027360
 Art. Nr. 29027298

Options: mounting clip
 compression fitting

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. Please see page 4 for recommended running times and general data.
 2) tested at 15 rpm

General Tubing Information

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
PharMed BPT™	High quality for medical, laboratory and research use Homogeneous structure and therefore comparatively better chem. resistance Autoclavable Biocompatible Long lifetime	
Silicone	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

Choice of tubing depending on flow medium					
		Novoprene	PharMed BPT	Silicone	
Acids	weak medium strong	very good good not recommended		good unsatisfactory not recommended	
Alkaline solution	weak medium strong	very good good not recommended	very good very good good	good unsatisfactory not recommended	
Hydro-carbons	aliphatic aromatized halogenated	not recommended			
Standards/ physiological behaviour		basis material meets FDA (21 CFR 177.2600) doesn't fulfill the EU food requirement 2002/72/EC	USP, class VI ISO 10993 Parts 4,5 and 11	physiologically inert	
Chemical structure		thermoplastic elastomer on PP-Basis with cross linked EPDM parts	thermoplastic elastomer on PP-Basis	high cross linked Polysiloxane with anorganic fillers	

Chemical Compatibility

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

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®, 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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The logo for THOMAS, featuring the word "THOMAS" in a bold, black, sans-serif font. Above the letters "O" and "M" is a red swoosh that starts under the "T", goes over the "O", and ends under the "S".



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