

FEATURES

- > 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
- > Different motors available (DC, low cost DC, AC and stepper motor)

TYPICAL APPLICATIONS

- > Transfer of fluids in bioprocessing
- > Dispensing of reagents in in-vitro diagnostics (IVD)
- > Dispensing of detergent in washers / disinfectors
- > Dispensing of foods and beverages

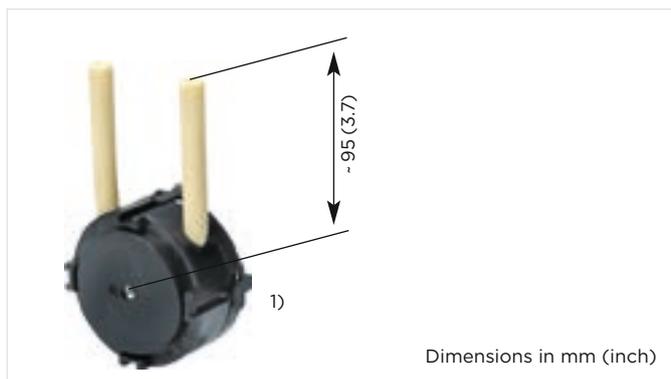
BASE MODEL

DC Standard



Peristaltic

Spare parts SR10/50 series



Tubing	Diameter x wall thickness	Part number
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
Silicone	2.0 x 1.6 mm	92050581
Silicone	2.5 x 1.6 mm	92050582
Silicone	4.0 x 1.6 mm	92050583

Tubing dimensions
 1.5 x 1.0 mm
 Inner Ø Wall thickness

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.

PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

gd-thomas.com



Gardner Denver Thomas GmbH

Livry-Gargan-Str. 10
82256 Fürstenfeldbruck
Germany

T +49 8141 2280 0
F +49 8141 8892136

thomas.de@gardnerdenver.com

Gardner Denver Thomas. Inc.

1419 Illinois Avenue
Sheboygan. WI 53081
USA

T +1 920 4574891
F +1 920 4514276

td.usa@gardnerdenver.com

Gardner Denver Thomas Pneumatic Systems (Wuxi) Co., Ltd.

No. 1 New Dong An Road, Shuofang Town, Wuxi, Xinwu District
Jiangsu 214142

China
T +86 510 6878 2258
F +86 510 6878 2200

thomas.cn@gardnerdenver.com

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