

## PERISTALTIC PUMPS

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### SERIES MP1 MP2-P/B/R/C/T

MP1



MP2-P









IP65 VERSION  
MP2-B/R/C/T









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#### TECHNICAL INFORMATION

-  **Small dimensions**
-  **Simple Installation**
-  **Minimal Maintenance**
-  **Automatic Priming**
-  **Large choice of tube materials**
-  **Security and Reliability**

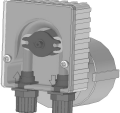
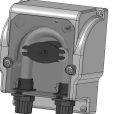
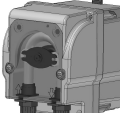
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#### APPLICATIONS

-  **Chemical Industries**
-  **Medical Industries**
-  **Food Industries**
-  **Laboratories and analysis**
-  **Detergency and Disinfection**
-  **Swimming Pool**

# PERISTALTIC PUMPS

## GENERAL OVERVIEW

	<b>MP1</b>										
	DC							X			
	AC	X		X		X	X				
	<b>MP2-P</b>										
	DC		X						X	X	X
	AC				X			X	X		
	<b>MP2 IP65</b>										
	DC		X						X	X	X
	AC		X		X			X	X	X	
FLOW (ml/min)		9	16,7	18,6	25	28	40	50	75	95	200
FLOW (l/h)		0,6	1	1,2	1,5	1,8	2,4	3	4	6	12

Other flows upon request

## PRIMERY SELECTION

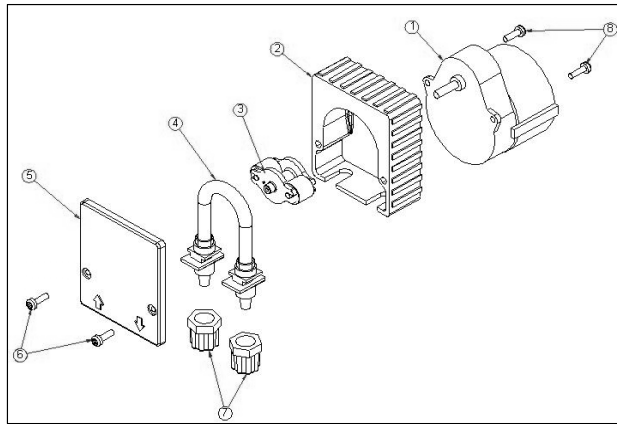
	POWER SUPPLY		WORKING METHOD		CIRCUIT		MOTOR TYPE		PAG
	DC	AC	CONTINUOUS	SHORT PERIODS	NOT AVAILABLE	AVAILABLE	CONTINUOUS	ALTERNATE	
MP1	X	X	X		X		X	X	5
MP2-P/B	X	X	X	X	X		X	X	5,6
MP2-R/C/T		X	X			X	X		6

# PERISTALTIC PUMPS

## EXPLODED VIEW

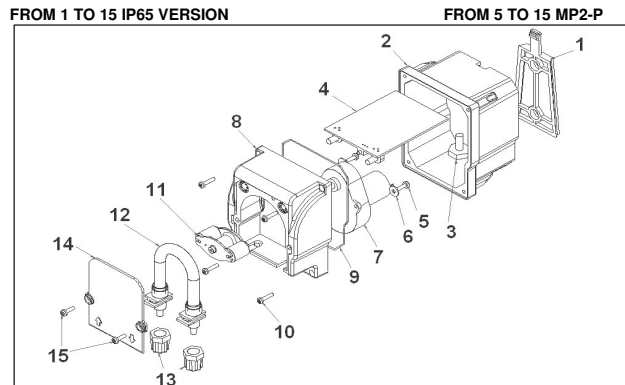
### MP1

NUM- DESCRIPTION	CODE
1 - Motor (ACCORDING TO THE MODEL)	-
2 - Peristaltic Head	11.010.000
3 - Complete Roller Holder	11.010.400
4 - Peristaltic Tube	11.005.000
4+7 - Complete Peristaltic Tube	11.005.001
5 - Front Cover	00.010.300
6 - Screws M 3x8 pieces 2	00.034.000
7 - Ferrule pieces 2	00.014.000
8 - Screws M 3x16 pieces 2	00.034.001



### MP2

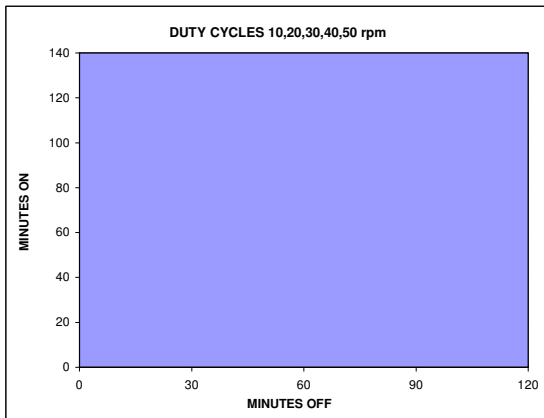
NUM- DESCRIPTION	CODE
1 - Pump Support	00.010.800
2 - Peristaltic Case	00.010.100
3 - Cable Gland PG7	00.050.000
4 - Circuit (ACCORDING TO THE MODEL)	-
5 - Screws M3x20 pieces 2	00.034.002
6 - Plain washer 3x12x1 pieces 2	00.037.000
7 - Motor (ACCORDING TO THE MODEL)	-
8 - Peristaltic Head	11.010.002
9 - OR 100 x 2 NBR	00.027.006
10 - Self-threading screw TC+2,9x16 pz 4	00.030.003
11 - Complete Roller Holder	11.010.401
12 - Peristaltic Tube	11.005.002
12+13 - Complete Peristaltic Tube	11.005.003
13 - Nipple pieces 2	00.014.000
14 - Front Cover	00.010.302
15 - Screws M 3x8 pieces 2	00.034.000



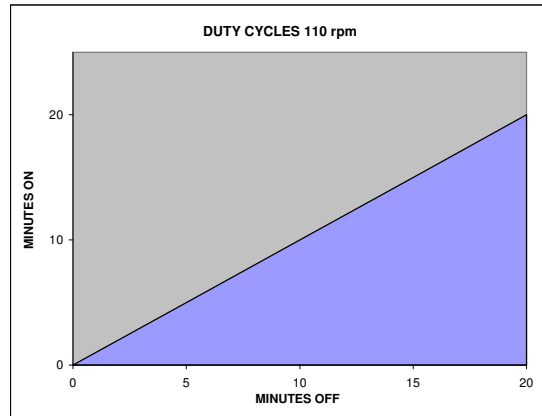
# PERISTALTIC PUMPS

## DUTY CYCLES

CONTINUOUS FUNCTIONING



SHORT PERIODS FUNCTIONING

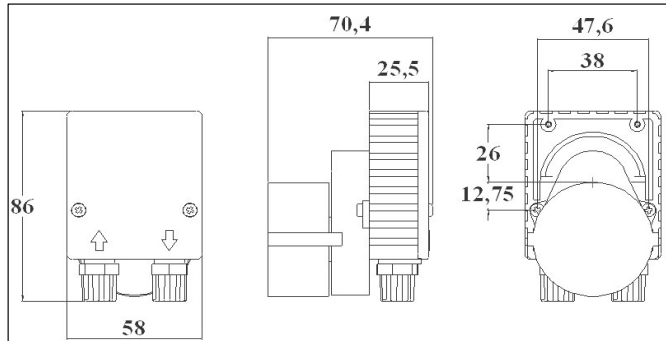
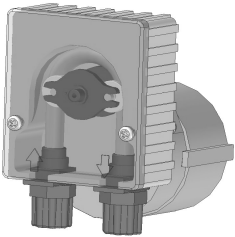


## LIVING TIME AND GENERAL DATA

	MP1				MP2			
	10 rpm	20 rpm	30 rpm	40 rpm	10 rpm	20 rpm	30 rpm	50 rpm
SANTOPRENE	4800 h	2400 h	1600 h	1200 h	4800 h	2400 h	1600 h	960 h
TEKNOPRENE	USO INTERMITTENTE							
SILICONE	1800 h	900 h	600 h	450 h	1800 h	900 h	600 h	360 h
TYGON								
ROLLER HOLDER	>5000 h	4000 h	2650 h	2000 h	>5000 h	4000 h	2650 h	1600 h
MOTORE AC	>5000 h	3000 h	2000 h	1500 h	>5000 h	2500 h		
MOTORE DC							1700 h	1000 h
Max Suction Height	2m H <sub>2</sub> O							
Max Continuous Back Pressure	8m H <sub>2</sub> O							
Max Back Pressure Short Periods	12 m H <sub>2</sub> O							
Max Environment Temperature	40 °C							

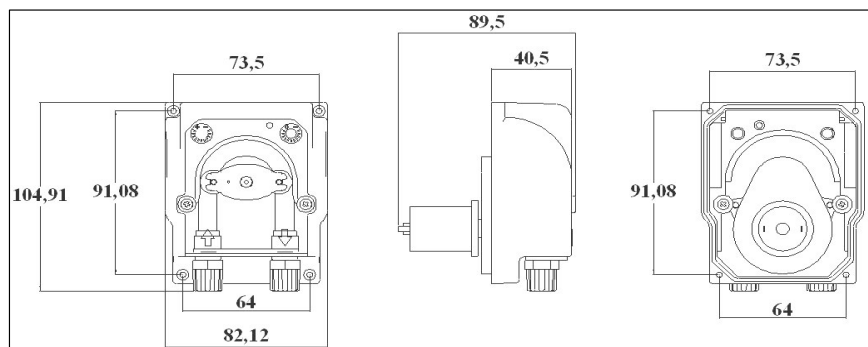
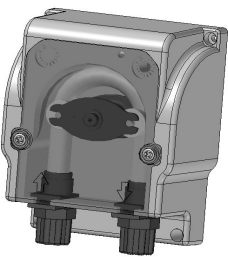
# PERISTALTIC PUMPS

## SERIES MP1



ml/min	l/h	MOTOR	WATT	rpm	Tube Diameter	bar
8	0,6	230 Vac	3,5	10	4x7 mm	1
18,6	1,2	230 Vac	3,5	20	4x7 mm	1
28	1,8	230 Vac	3,5	30	4x7 mm	1
40	2,4	230 Vac	5	40	4x7 mm	1
40	2,4	24 Vdc	3,5	40	4x7 mm	1

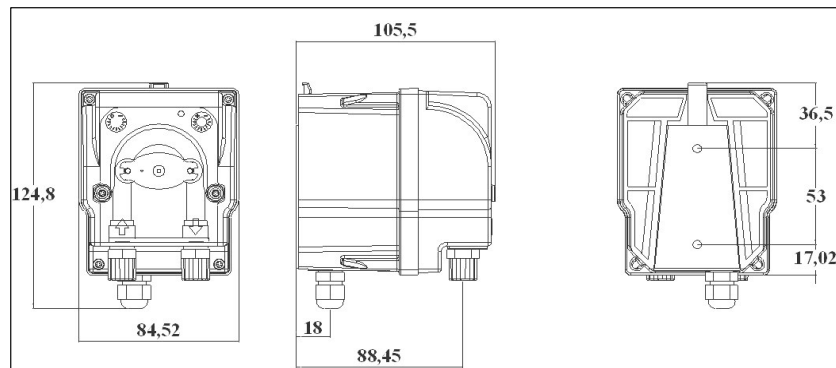
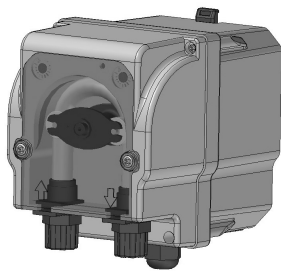
## SERIES MP2-P



ml/min	l/h	MOTOR	WATT	rpm	Tube Diameter	bar
25	1,5	230 Vac	3,5	10	5,8X9,4 mm	1
50	3	230 Vac	3,5	20	5,8X9,4 mm	1
72	4	230 Vac	5	30	5,8X9,4 mm	1
16,6	1	24 Vdc	3,5	31	3,2x6,4 mm	3
75	4	24 Vdc	3,5	31	5,8X9,4 mm	1
95	6	24 Vdc	3,5	40	5,8X9,4 mm	1
200	12	24 Vdc	3,5	105,5	5,8X9,4 mm	1

# PERISTALTIC PUMPS

## SERIES MP2 IP65 VERSION



### MP2-B

ml/min	l/h	MOTOR	WATT	rpm	Tube Diameter	bar
25	1,5	230 Vac	3,5	10	5,8X9,4 mm	1
50	3	230 Vac	3,5	20	5,8X9,4 mm	1
72	4	230 Vac	5	30	5,8X9,4 mm	1
16,6	1	24 Vdc	3,5	31	3,2x6,4 mm	3
75	4	24 Vdc	3,5	31	5,8X9,4 mm	1
95	6	24 Vdc	3,5	40	5,8X9,4 mm	1
200	12	24 Vdc	3,5	105,5	5,8X9,4 mm	1

### MP2-R

POWER SUPPLY 20-260 Vac

ml/min	l/h	MOTOR	WATT	rpm	Tube Diameter	bar
16,6	1	24 Vdc	3,5	31	3,2x6,4 mm	3
75	4	24 Vdc	3,5	31	5,8X9,4 mm	1
95	6	24 Vdc	3,5	40	5,8X9,4 mm	1

### MP2-C

POWER SUPPLY 230 Vac

ml/min	l/h	MOTOR	WATT	rpm	Tube Diameter	bar
75	4	24 Vdc	3,5	31	5,8X9,4 mm	1
95	6	24 Vdc	3,5	40	5,8X9,4 mm	1




### MP2-T

POWER SUPPLY 20-260 Vac

ml/min	l/h	MOTOR	WATT	rpm	Tube Diameter	bar
75	4	24 Vdc	3,5	31	5,8X9,4 mm	1
95	6	24 Vdc	3,5	40	5,8X9,4 mm	1

# PERISTALTIC PUMPS

## SPARE PARTS

PERISTALTIC TUBE	TUBE MATERIAL	TUBE DIAMETER	FETTINGS	Cod. series MP1	Cod. series MP2
	SANTOPRENE	4X7 mm	Polipropilene	11.005.000	
		5,8X9,4 mm	Polipropilene		11.005.002
	TEKNOPRENE	4X7 mm	Polipropilene	11.005.005	
	SILICONE	4X7 mm	Polipropilene	11.005.100	
		6X10 mm	Polipropilene		11.005.102
TYGON	3,2x6,4 mm	Polipropilene		11.005.104	
ROLLER HOLDER	ROLLER HOLDER MATERIALS			Cod. series MP1	Cod. series MP2
	PBT			11.010.400	11.010.401
FRONT COVER	FRONT COVER MATERIALS			Cod. series MP1	Cod. series MP2
	Polycarbonate			00.010.300	00.010.302

## TUBES PROPERTIES

TUBE	CHARACTERISTICS	STRENGTH AND COLOR
SANTOPRENE	<p>Preserves its characteristics in a wide temperature range: from -40 to +120°C. resists to Ozone, solar rays, water, acids, basis, oil liquids, fats, etc... It's sterilizable by vapor and by ethelene oxide. It preserved its properties after a several working hours under continuous crushing. The tube do not glue after a long stop of the machine.</p>	<p>55 ShA color: natural (ivory)</p>
TEKNOPRENE	<p>Preserves its characteristics in a wide temperature range: from -60 to +180°C. resists to Ozone, solar rays, water, acids, hydrocarbons, benzin, aggressive acids and basis, oils, fats, etc... It's sterilizable by vapor and by ethelene oxide. It preserved its properties after a several working hours under continuous crushing.</p>	<p>70 ShA color: red</p>
SILICONE	<p>Preserves its characteristics in a wide temperature range: from -40 to +180°C. resists to Ozone, solar rays, water, aggressive acids and basis, oil liquids, fats, etc... It's sterilizable by vapor and by ethelene oxide. It preserves its properties after a several working hours under continuous crushing. It's approved to get in touch with food products by international laws (Documentation upon request).</p>	<p>60 ShA color: transparent approved by FDA laws</p>
TYGON	<p>Preserves its characteristics in a wide temperature range: from -50 to +74°C. resists to Ozone, solar rays, water, aggressive acids and basis, oil liquids, fats, etc... It's sterilizable by vapor and by ethelene oxide. It preserves its properties after a several working hours under continuous crushing.</p>	<p>40 ShA color: transparent</p>

Other tube materials upon request

# PERISTALTIC PUMPS

## CHEMICAL COMPATIBILITY TABLE

A = None or Minimal Corrosion  
 B = Moderate Corrosion  
 C = Heavy Corrosion  
 D = Not suitable / Test before usage  
 E = No Data Available

	SANTOPRENE	TEKNOPRENE	SILICONE	TYGON	EPDM		SANTOPRENE	TEKNOPRENE	SILICONE	TYGON	EPDM
Acetaldehyde	E	E	A	D	A	Lactic acid	E	E	C	B	A
Acetate	E	E	D	D	B	Linseed oil	E	E	A	D	D
Acetic acid	C	C	A	A	A	Lithium base grease	E	E	A	E	E
Acetic anhydride	D	E	C	D	B	Magnesium chloride solution	E	E	A	A	A
Acetone	A	D	A	D	A	Mercury salts	E	E	C	A	E
Alcohol	E	E	A	D	A	Methanol	A	B	A	D	A
Aluminium chloride	E	E	D	A	A	Methyl ethyl ketone	D	E	C	D	A
Aluminium sulfate	A	E	A	A	A	Mineral oil	D	E	D	C	D
Ammonia	E	D	C	A	A	Natrium hydroxide	E	E	D	E	E
Ammonium (gas)	E	E	A	A	E	(low concentration)					
Amyl acetate	D	E	C	D	A	Natural gas	D	E	A	A	D
Amyl alcohol	A	E	C	D	A	Nitroethane	E	E	C	E	E
Aniline	A	A	C	D	B	Nitrogene oxide	E	E	C	E	E
Animal oil	E	E	D	D	E	Nitrous acid 10%	E	E	C	A	A
Antimony salts	E	E	E	A	E	Nitrous acid 30%	E	E	C	E	A
Aqua regia	E	E	C	D	C	Nitrous acid 70%	E	E	C	E	E
Arsenic salts	E	E	E	A	E	Oil ASTM (116 °C)	E	A	D	D	E
Barium salts	E	E	C	E	E	Oleic acid	E	E	C	D	B
Benzaldehyde	D	E	C	D	A	Oxalic acid	A	E	D	B	A
Benzic acid	E	E	E	D	E	Oxygen	E	E	A	A	E
Benzol	E	E	C	E	D	Perchloric acid	E	E	C	C	B
Benzylalcohol	E	E	B	D	B	Perchlorethylene	D	A	C	D	D
Bleaching agent	E	E	A	E	B	Phenol	E	E	C	B	B
Boric acid	A	E	A	A	A	Phosphoric acid	E	A	C	A	B
Break liquid	E	E	A	E	E	Phosphorous acid	E	E	D	A	E
Bromine	E	E	C	D	D	Phtalic acid	E	C	A	D	A
Butane	E	E	C	A	D	Potassium salts	E	E	E	A	E
Butanol	B	A	C	E	A	Propanol	E	E	A	E	E
Calcium salts	E	E	D	A	E	Pyridine	A	E	C	D	B
Chromium salts	E	E	E	E	E	Salt water	A	E	A	E	A
Carbon bisulphide	E	E	C	D	D	Soap solutions	A	E	A	A	A
Chloracetic acid	D	E	E	A	B	Sodium hydroxide 46%	E	A	D	C	B
Chlorine, liquid	D	E	C	E	B	Sodium hypochlorite <5%	E	E	E	A	B
Chlorobenzene	D	E	E	D	D	Sodium hypochlorite >5%	E	E	E	A	B
Chloroform	D	A	C	D	D	Sodium salt	E	E	A	A	E
Chromic salts	E	E	C	E	E	Sole	E	E	E	E	E
Cyclohexane	D	A	C	D	D	Stearic acid	A	E	D	D	B
Diesel oil	D	E	A	E	D	Sulphurdioxide	E	E	A	A	A
Ethanol	A	A	D	E	A	Sulphuric acid	A	A	C	A	A
Ether	E	E	C	D	C	(low concentration)					
Ethylalcohol	E	A	C	D	A	Sulphurous acid	E	E	C	A	B
Ethylene chlorohydrin	D	C	C	D	B	(low concentration)					
Ethylene glycol	A	A	A	A	A	Sulphurtrioxide	E	E	D	B	C
Fluor boric acid	E	E	E	A	A	Tannic acid	A	E	A	B	A
Fluor silicium acid	E	E	E	A	A	Tannic extracts	E	E	E	E	E
Formaldehyde	A	E	D	D	A	Tetrachloromethane	E	E	C	E	E
Formamide	E	E	E	E	E	Tetrahydrofurane	D	E	C	D	D
Formic acid	A	E	A	B	A	Toluole	D	A	C	D	D
Furfurol	E	E	E	D	D	Turpentine	E	E	C	D	E
Glucose	E	E	A	A	A	Uric acid	A	E	D	A	E
Hydrochloric acid	B	A	C	A	B	Vegetable fat	E	E	A	E	E
Hydrocyanic acid	A	E	C	A	B	Xylene	D	A	C	D	D
Hydrogen peroxide	E	B	A	A	B	Zinc chloride	A	E	B	A	A
Hydrogen sulphide	E	E	C	A	B						
Iod	E	E	C	A	B						
Iod solution	E	E	C	A	E						
Isopropyl alcohol	E	E	A	D	A						