

Single-channel Pump Heads

Configure Hei-FLOW models individually

Conveying and dosing for all kinds of applications. The sealed ball bearings protect against corrosion and ensure reliable continuous operation. With the versatile selection of pump heads for single-channel operation, the right solution can be configured for every application.



SP quick

For quick and easy tube change by means of a practical lever

- Low pulsation due to five rollers
- Sealed ball bearings
- Stainless steel rollers and roller supports
- Depending on the drive and tubing used, flow rates of 0.45 to 4,500 ml/min are possible.

For tube wall thickness 1.6 mm
P/N 527-11100-00

For tube wall thickness 2.5 mm
P/N 527-11300-00



SP standard

All-purpose for simple pumping tasks

- Sealed ball bearings
- Stainless steel rollers, polyamide roller carrier
- Depending on the drive and tubing used, flow rates of 3.3 to 4,300 ml/min are possible.

For tube wall thickness 1.6 mm
P/N 523-43010-00

For tube wall thickness 2.5 mm
P/N 523-43030-00



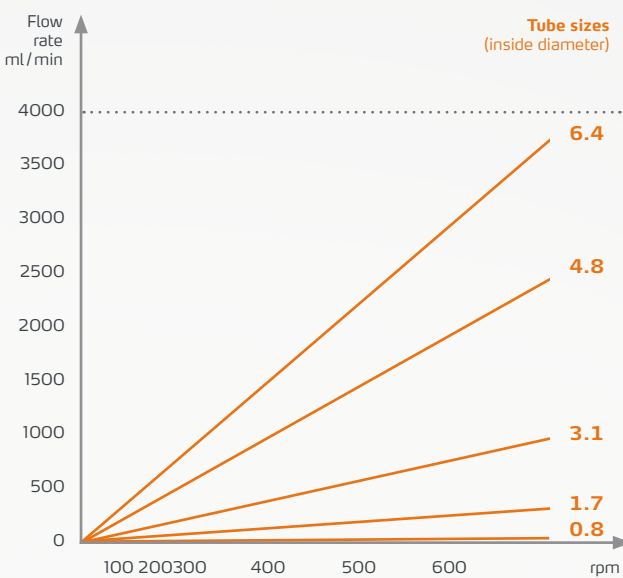
SP vario

Flexible for versatile use

- Rotor with adjustable roller distance, for adaptation to the tube wall thickness
- Sealed ball bearings
- Stainless steel rollers, aluminum coated roller carrier
- Depending on the drive and tubing used, flow rates of 3.3 to 4,300 ml/min are possible.

P/N 523-45110-00

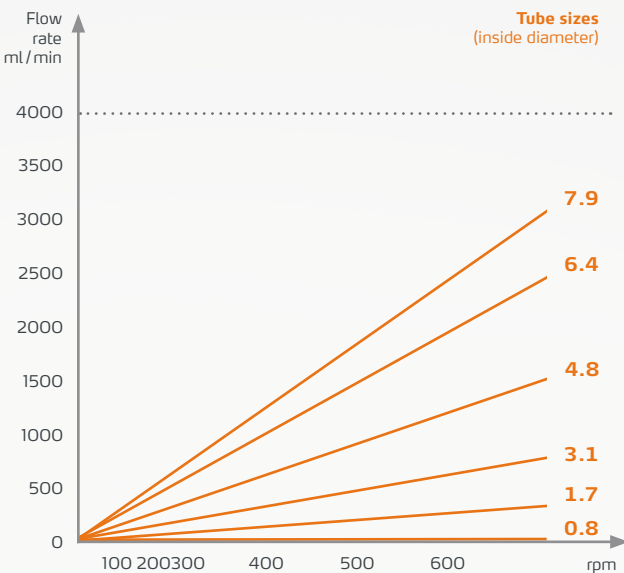
Flow rates for single-channel pump heads



SP standard SP vario



SP quick



Tube sizes for single-channel pump heads

Tube sizes					
Inside diameter	mm	0.8	1.7	3.1	4.8
Outside diameter	mm	4	4.9	6.3	8
Tube wall thickness (WT)	mm	1.6	1.6	1.6	1.6
Max. operating pressure (duration/short-term)	bar	0.7 / 1.7	0.7 / 1.7	0.7 / 1.7	0.5 / 1.5
Suction lift	mH ₂ O	8.8	8.8	8.8	8.8

Tube sizes					
Inside diameter	mm	6.4	4.8	6.4	7.9
Outside diameter	mm	9.5	9.8	11.3	12.9
Tube wall thickness (WT)	mm	1.6	2.5	2.5	2.5
Max. operating pressure (duration/short-term)	bar	0.5 / 1.5	0.8 / 1.8	0.8 / 1.8	0.8 / 1.8
Suction lift	mH ₂ O	6.7	8.8	8.8	8.8

Mean value of the flow rate in combination with pump head and pump drive

SP quick		min.	max.	min.	max.	min.	max.	min.	max.
Hei-FLOW Core / Expert / Ultimate 600	ml/min	2.6	33	6	200	23	818	65	1,500
Hei-FLOW Core / Expert / Ultimate 120	ml/min	0.5	10	1.7	40	5.4	130	11.6	275

SP standard / SP vario		min.	max.	min.	max.	min.	max.
Hei-FLOW Core / Expert / Ultimate 600	ml/min	12	225	49	1,135	100	2,362
Hei-FLOW Core / Expert / Ultimate 120	ml/min	3.3	58.5	8.9	216	20.5	494

All flow rate data refer to Tygon® (standard) tubes and the medium water.

SP quick		min.	max.	min.	max.	min.	max.	min.	max.
Hei-FLOW Core / Expert / Ultimate 600	ml/min	96	2,074	77	1,885	98	2,556	163	4,500
Hei-FLOW Core / Expert / Ultimate 120	ml/min	17.2	407	14	280	26	480	35	684

SP standard / SP vario		min.	max.	min.	max.	min.	max.
Hei-FLOW Core / Expert / Ultimate 600	ml/min	160	4,290	109	2,442	193	4,304
Hei-FLOW Core / Expert / Ultimate 120	ml/min	33	797	26	481	37.4	936

All flow rate data refer to Tygon® (standard) tubes and the medium water.

Order numbers

Tubing (per meter)	P/N	P/N	P/N	P/N
Silicone	525-33000-00	525-34000-00	525-36000-00	525-30027-00
Viton®	525-53000-00	525-54000-00	525-56000-00	525-50027-00
PharMed®	525-23000-00	525-24000-00	525-26000-00	525-20027-00
Tygon® standard	525-63000-00	525-64000-00	525-66000-00	525-60027-00
Tygon® for hydrocarbons	525-73000-00	525-74000-00	525-76000-00	525-70027-00
Tygon® 2001 for food	525-83000-00	525-84000-00	525-86000-00	525-80027-00

Tubing (per meter)	P/N	P/N	P/N	P/N
Silicone	525-30028-00	525-35000-00	525-39000-00	525-32000-00
Viton®	525-50028-00	525-55000-00	525-59000-00	525-52000-00
PharMed®	525-20028-00	525-25000-00	525-29000-00	525-22000-00
Tygon® standard	525-60028-00	525-65000-00	525-69000-00	525-62000-00
Tygon® for hydrocarbons	525-70028-00	525-75000-00	525-79000-00	525-72000-00
Tygon® 2001 for food	525-80028-00	525-85000-00	525-89000-00	–

Multi-channel Pumps

More efficiency, even more possibilities

With the easily exchangeable cassettes, the throughput of the Hei-FLOW multi-channel pump can be increased to up to 12 simultaneously operated channels.

The following models are suitable for multi-channel operation: **Hei-FLOW Core/Expert/Ultimate 600**

Simply select the adapter and multi-channel pump head for the appropriate Hei-FLOW model and fit them with suitable cassettes and tubings.

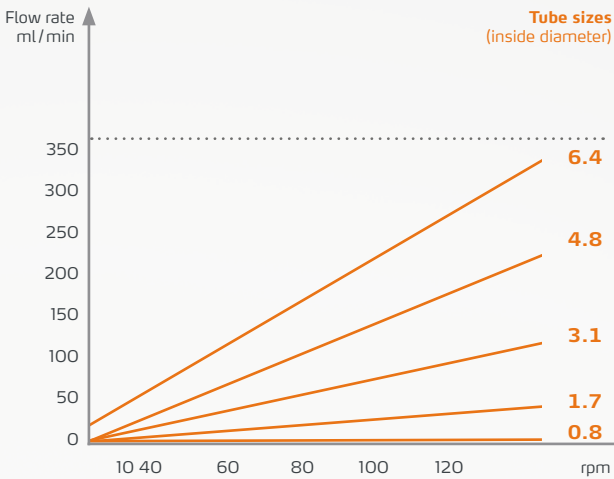
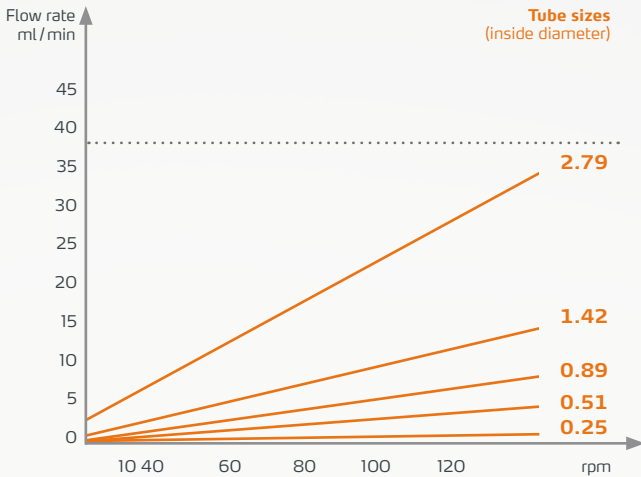
- When using tubes with different diameters per cassette, up to 12 individual pump volumes can be processed in one working part
- The tube can be changed easily and in a matter of seconds
- Pump heads with 8-roller system are also available to reduce pulsation
- A snap-action device makes inserting all cassettes child's play and even allows easy replacement during ongoing operation



Flow rates of individual tubing sizes for multi-channel pump heads

Multi-channel pump head C 4

For Cassette small



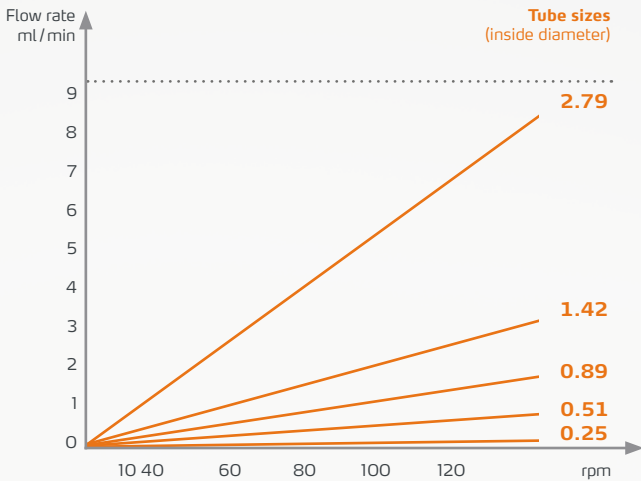
Multi-channel pump head C 8

For medium or large cassettes



Multi-channel pump head C 12

For Cassette small



Multi-channel pump heads

Easy to configure or retrofit

The brackets of the 2-stopper -
tubings prevent the slipping of
the tube when using the small
cassette.



Precise dosing or customized pumping

Low-pulsation pumping with the C 4 and C 12 multi-channel pump heads thanks to the 8-roller system and high-precision dosing depending on the tubing configuration. The C 12 model is optimally equipped for the smallest volumes thanks to an integrated gear support – for flow rates from 0.005 – 54 ml/min. For Cassette small (C 4/C 12), Two-Stop tubing is required. For Cassette medium and Cassette large (C 8) tubing by the meter.



Multi-channel- pump head C 4

- Can be equipped with 4 x Cassette small
- 8 rollers for low-pulsation pumping

P/N 524-80420-00



Multi-channel- pump head C 8

- Can be equipped with 8 x Cassette medium or 4 x Cassette large
- 4-roller system

P/N 524-40810-00



Multi-channel- pump head C 12

- Can be equipped with 12 x Cassette small
- Due to integrated gear reduction ideal for pumping smallest volumes
- 8 rollers for low-pulsation pumping

P/N 524-81220-00

Multi-channel cassettes

Easily exchangeable cassettes even during the pumping process. The roller contact pressure is adjusted by means of an adjusting screw. Different tubing and sizes can be used in each cassette.



Cassette small

- Flow rates from 0.005 – 37.0 ml/min
- Suitable for tubes with 0.9 mm tube wall thickness
- Available tube diameters: 0.2/0.5/0.9/1.4 and 2.8 mm
- Special tube piece with 2 stoppers (length 40 cm) required for insertion into the cassette
- The tube is fixed by tube stoppers
- With tubing connectors and extension tubings, it is possible to extend the tubing length by the meter

Equipped with:

Multi-channel pump head C 4:
max. 4 x Cassette small

Multi-channel pump head C 12:
max. 12x Cassette small

P/N 524-90022-00



Cassette medium

- Flow rates from 0.22 – 25.0 ml/min
- Suitable for tubes with 1.6 mm tube wall thickness
- Available tube diameters: 0.8 and 1.7 mm
- Tubes available by the meter

Equipped with:

Multi-channel pump head C 8:
max. 8x Cassette medium

P/N 524-90021-00



Cassette large

- Flow rates from 1.0 – 277.0 ml/min
- Suitable for tubes with 1.6 mm tube wall thickness
- Available tube diameters: 1.7/3.1/4.8 and 6.4 mm
- Tubes available by the meter

Equipped with:

Multi-channel pump head C 8:
max. 4 x Cassette large

P/N 524-90010-00

Tubing sizes for multi-channel pump heads

Tube sizes						
Inside diameter	mm	0.25	0.51	0.89	1.42	2.79
Outside diameter	mm	2.05	2.31	2.69	3.22	4.59
Tube wall thickness (wt)	mm	0.9	0.9	0.9	0.9	0.9
Max. operating pressure (duration/short-term)	bar	0.5/1.5	0.5/1.5	0.5/1.5	0.5/1.5	0.5/1.5
Suction lift	mH ₂ O	7	7	7	7	7

Tube sizes						
Inside diameter	mm	0.8	1.7	3.1	4.8	6.4
Outside diameter	mm	4	4.9	6.3	8	9.5
Tube wall thickness (wt)	mm	1.6	1.6	1.6	1.6	1.6
Max. operating pressure (duration/short-term)	bar	0.7/1.7	0.7/1.7	0.7/1.7	0.7/1.7	0.5/1.5
Suction lift	mH ₂ O	8.8	8.8	8.8	8.8	6.7

Mean value of the flow rate
in combination with pump head and pump drive

Hei-FLOW Core 120 Hei-FLOW Expert 120 Hei-FLOW Ultimate 120		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	max. number of cass.
Cassette small Pump head C 12	ml/min	0.005	0.11	0.01	0.54	0.03	1	0.10	3	0.29	9	12
Cassette small Pump head C 4	ml/min	0.02	0.49	0.08	2	0.24	6	0.60	14	2	36	4

All flow rate data refer to Tygon® (standard) tubes and the medium water.

Hei-FLOW Core 120 Hei-FLOW Expert 120 Hei-FLOW Ultimate 120		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	max. number of cass.
Cassette medium Pump head C 8	ml/min	0.22	6.8	1	25							8
Cassette large Pump head C 8	ml/min			1	25	3.7	88.5	7.7	184	11	277	4

All flow rate data refer to Tygon® (standard) tubes and the medium water.

Order numbers

Tubing	P/N	P/N	P/N	P/N	P/N
Silicone					
Two-Stop tubing for Cassette small			525-30014-00	525-30015-00	525-30016-00
Extension tubes (by the meter)			525-30024-00	525-30025-00	525-30026-00
Viton®					
Two-Stop tubing for Cassette small			525-00014-00	525-00015-00	525-50016-00
Extension tubes (by the meter)			525-00024-00	525-00025-00	525-50026-00
PharMed®					
Two-Stop tubing for Cassette small	525-20012-00	525-20013-00	525-20014-00	525-20015-00	525-20016-00
Extension tube (by the meter)	525-20022-00	525-20023-00	525-20024-00	525-20025-00	525-20026-00
Tygon® standard					
Two-Stop tubing for Cassette small	525-60012-00	525-60013-00	525-60014-00	525-60015-00	525-60016-00
Extension tubes (by the meter)	525-60022-00	525-60023-00	525-60024-00	525-60025-00	525-60026-00
Tube connector (PTFE)	526-22000-00	526-22000-00	526-22000-00	526-22000-00	526-22000-00

Tubing	P/N	P/N	P/N	P/N	P/N
Silicone	525-33000-00	525-34000-00	525-36000-00	525-30027-00	525-30028-00
Viton®	525-53000-00	525-54000-00	525-56000-00	525-50027-00	525-50028-00
PharMed®	525-23000-00	525-24000-00	525-26000-00	525-20027-00	525-20028-00
Tygon® standard	525-63000-00	525-64000-00	525-66000-00	525-60027-00	525-60028-00
Tygon® for hydrocarbons	525-73000-00	525-74000-00	525-76000-00	525-70027-00	525-70028-00
Tygon® 2001 for food	525-83000-00	525-84000-00	525-86000-00	525-80027-00	525-80028-00

Tubing selection



Tygon® standard

General applications in the laboratory

- Non-toxic, non-oxidizing
- Good resistance to acids, lyes and inorganic media
- Very low gas permeability, long service life
- Thermoplastic soft PVC, transparent



Tygon® 2001 for food

Ideal for products with a high fat content

- Extremely resistant to chemicals, e.g. suitable for the use of polar solvents
- Contains no plasticizers or oils
- Particularly long service life
- Transparent for improved visual inspection
- Extremely flexible
- Thermoplastic, transparent



Tygon® for hydrocarbons

Especially for hydrocarbons, petroleum products and distillates

- Ideal for petrol, kerosene, fuels and lubricants, heating oil, cutting fluids and glycol-based coolants
- Ozone- and UV-resistant
- Thermoplastic soft PVC, yellow translucent



PharMed®

Ideal for medical, laboratory and research applications

- High flexural fatigue strength
- Non-toxic, biocompatible
- Very low gas permeability
- Well suited for acids and lyes
- Polypropylene-based thermoplastic elastomer with plasticizers, opaque beige



Silicone

For use in pharmacy and biology

- Extremely smooth inner surface (platinum plated) prevents possible bacterial growth
- Biocompatible, minimal adsorption and absorption
- Best flow properties, high temperature stability
- Absolutely inert, plasticizer-free
- Polydimethylsiloxane with silica earth and silicone additives, excellent contact pressure resistance, translucent white



Viton®

Excellent acid resistance - at high temperatures

- Low gas permeability
- Resistant to solvents and corrosive media
- Fluorocarbon rubber, thermoformed Viton B (67% fluorinated), opaque black

Complies with the following standards:
FDA (21 CFR 177.2601),
USP Class VI, ISO 10993,
10/ 204/EU

Temperature range:
-50 to +75 °C

Sterilization:
Autoclavable at 120 °C,
30 min. at 1 bar (takes on milky color)
or with ethylene oxide

Restriction:
Release of plasticizers possible

Complies with the following standards:
FDA (21 CFR 177.2600),
USP Class VI and GLP

Temperature range:
-78 to +71 °C

Sterilization:
Autoclavable, 30 min. at 1 bar,
sterilizable by radiation or
ethylene oxide

Complies with the following standards:
GLP

Temperature range:
-40 to +75 °C

Sterilization:
not recommended

Restriction:
Not suitable for strong lyes
and acids as well as food
and pharmaceuticals.

Complies with the following standards:
USP Class VI, GLP, USP and Ph. Eur.

Temperature range:
-51 to +135 °C

Sterilization:
Autoclavable or sterilizable by ethylene
oxide
or radiation

Restriction:
Release of additives possible

Complies with the following standards:
USP Class VI, GLP and NSF

Temperature range:
-80 to +200 °C

Sterilization:
Autoclavable, 30 min. at 1 bar
or sterilizable by radiation

Restriction:
Unsuitable for concentrated solvents,
oils, acids or diluted caustic soda,
relatively high gas permeability

Complies with the following standards:
GLP

Temperature range:
-30 to +205 °C

Sterilization:
not recommended

Restriction:
Limited service life

Tubing characteristics



Used with	Tygon® standard	Tygon® 2001 for food	Tygon® for hydrocarbons
Acids	good	excellent	good
Lyes	good	excellent	good
Solvents	not suitable	good	conditional
Pressure	good	good	good
Vacuum	good	good	good
Viscous media	excellent	good	excellent
Sterile media	conditional	good	conditional



Used with	PharMed®	Silicone	Viton®
Acids	good	conditional	excellent
Lyes	good	conditional	excellent
Solvents	not suitable	not suitable	varying, test recommended
Pressure	good	conditional	good
Vacuum	excellent	good	good
Viscous media	good	conditional	good
Sterile media	excellent	excellent	conditional

Tubing compatibility

	Chemical	P	S	T	TU	TK	V
A	Acetaldehyde	D	C	D	D	D	D
	Acetone	D	C	D	D	C	D
	Acetonitrile	D	D	D	D	B	D
	Acetyl bromide	C	D	D	D	C	–
	Acetyl chloride	C	D	D	D	C	A
	Aliphatic hydrocarbons	D	D	D	B	D	–
	Aluminum chloride, 53 % i. w.	A	A	A	A	A	A
	Aluminum salts	A	A	A	A	A	–
	Aluminum sulfate, 50 % i. w.	A	A	A	A	A	A
	Formic acid, 25 % i. w.	A	A	A	C	A	D
	Ammonia, anhydrous	A	D	B	B	B	D
	Ammonium acetate, 45 % i. w.	A	A	A	A	A	–
	Ammonium carbonate, 20 % i. w.	A	A	A	A	A	–
	Ammonium chloride	A	C	A	A	A	A
	Ammonium hydroxide, 30 % i. w.	A	D	A	C	A	B
	Ammonium nitrate	A	C	A	A	A	–
	Ammonium phosphate	A	A	A	A	A	–
	Ammonium sulfate	A	A	A	A	A	A
	Amylacetate	B	D	D	D	D	D
	Amylalcohol	D	D	D	A	A	A
	Amylchloride	C	D	D	D	D	–
	Aniline	C	D	D	D	D	D
	Aniline hydrochloride	C	D	D	D	D	B
	Aromatic hydrocarbons	D	D	D	D	D	–
	Arsenic salts	A	A	A	A	A	–
B	Barium salts	A	A	A	A	A	–
	Benzaldehyde	D	C	D	D	C	D
	Benzene	D	D	D	D	–	–
	Benzenesulfonic acid	D	D	D	D	D	A
	Hydrogen cyanide	A	A	A	A	A	A
	Lead acetate, 35 % i. w.	A	A	A	A	A	–
	Boric acid, 4 % i. w.	A	A	A	A	A	A
	Bromine, (anhydrous liquid)	D	D	D	D	D	A
	Hydrobromic acid, 20–50 %	D	D	A	A	A	A
	Butane	A	A	A	A	B	A
C	Butanol (Butyl alcohol)	D	B	D	D	A	A
	Butyric acid	B	D	D	C	D	–
	Butyl acetate	B	D	D	D	D	D
	Calcium oxide	A	A	A	A	A	–
	Chlorobenzene, (Mono, Di, Tri)	D	D	D	D	C	A

	Chemical	P	S	T	TU	TK	V
	Chloroacetic acid 20 % i. w.	B	A	A	D	A	D
	Chlorine gas, wet	D	D	B	B	C	B
	Chlorobromomethane	B	D	D	D	–	A
	Chloroform	D	D	D	D	C	A
	Chlorosulfonic acid	D	D	D	D	D	D
	Chromic acid, 20 % i. w.	A	D	B	C	B	A
	Chromic acid, 50 % i. w.	C	D	C	D	–	–
	Cyclohexane	D	D	D	C	D	A
	Cyclohexanone	D	D	D	D	C	D
	Diesel	D	D	D	B	–	–
D	Dimethylformamide	B	B	D	D	A	D
	Iron II chloride 40 % i. w.	A	A	A	A	A	B
	Iron II sulfate 5 % i. w.	A	A	A	A	A	A
	Iron III chloride 43 % i. w.	A	A	A	A	A	–
	Iron III sulfate 5 % i. w.	A	A	A	A	A	–
	Acetic acid, 10 % i. w.	A	A	A	A	A	–
	Acetic acid, (100 % glacial acetic acid)	B	D	D	D	–	–
	Acetic anhydride	A	A	D	D	A	D
	Ethanol	A	B	D	B	A	A
	Ether	C	D	D	C	D	–
E	Ethylenedichloride	C	D	D	D	D	B
	Ethyl acetate	B	D	D	D	D	D
	Ethylamine	D	C	D	D	B	–
	Ethyl bromide	D	D	D	D	C	–
	Ethyl chloride	C	D	D	D	D	A
	Ethylene chlorohydrin	A	B	D	B	A	A
	Ethylene glycol	A	A	A	A	A	A
	Ethylene oxide	A	D	A	A	A	D
	Fatty acids	C	B	B	C	C	C
	Fluoroborate salts	A	–	A	A	A	–
F	Hydrofluoric acid 50 %	D	D	D	D	A	A
	Hydrofluoric acid, 10 % i. w.	D	D	C	A	A	B
	Formaldehyde, 37 % i. w.	D	C	D	D	C	D
	Freon 11	A	A	A	A	–	–
	Fruit juice	A	A	A	A	A	A
	Tannic acid, 75 % i. w.	B	A	B	D	A	–
	Glycerin	A	A	A	A	A	A
	Uric acid	A	A	A	C	A	–
	Urea, 20 % i. w.	A	A	A	A	A	–
	Hypochlorous acid, 25 % i. w.	A	A	A	A	A	A

	Chemical	P	S	T	TU	TK	V
I	Hydrogen iodide, 7 % i. w.	B	B	A	A	A	–
J	Iodine solutions	A	C	A	A	A	–
K	Potassium cyanide, 33 % i. w.	A	A	A	A	–	–
	Potassium hydroxide, < 10 % i. w.	A	A	A	D	–	B
	Potassium iodide, 56 % i. w.	A	A	A	A	A	–
	Potassium carbonate, 55 % i. w.	A	A	A	A	A	–
	Kerosene	D	D	D	B	D	A
	Ketones	D	D	D	D	C	–
	Carbon disulfide	D	D	D	D	D	–
	Aqua regia (80 % HCl, 20 % HNO)	D	D	D	D	A	–
	Copper II chloride 40 % i. w.	A	A	A	A	A	–
M	Magnesium chloride, 35 % i. w.	A	A	A	A	A	A
	Magnesium sulfate, 25 % i. w.	A	A	A	A	A	–
	Manganese salts	A	A	A	A	A	–
	Methane	A	–	A	A	A	A
	Methanol	A	B	D	B	A	D
	Methyl ethyl ketones	D	D	D	D	C	D
	Lactic acid, 10 % i. w.	A	A	A	A	A	–
	Lactic acid, 85 % i. w.	B	D	D	D	–	–
	Mineral oil	D	D	C	A	D	A
	Monoethanolamines	C	D	D	D	D	D
N	Naphthalene	D	D	D	D	D	A
	Sodium bicarbonate, 7 % i. w.	A	A	A	A	A	A
	Sodium bisulfate	A	–	A	A	A	–
	Sodium borate	A	A	A	A	A	A
	Sodium dithionite	A	–	A	A	–	–
	Sodium ferrocyanide	A	A	A	D	–	–
	Sodium hydroxide, 10–15 % i. w.	A	A	A	D	A	B
	Sodium hydroxide, 30–40 % i. w.	A	C	C	D	A	B
	Sodium carbonate, 7 % i. w.	A	A	A	A	A	B
	Sodium nitrate, 3.5 % i. w.	A	A	A	A	A	–
	Sodium sulfate, 3.6 % i. w.	A	A	A	A	–	A
	Sodium sulfide, 13 % i. w.	A	A	A	A	A	–
	Nickel salts	A	A	A	A	A	–
	Nitrobenzene	D	D	D	D	C	–
O	Oils, animal	C	A	D	A	B	–
	Oleic acid	C	B	D	B	D	B
P	Perchlroethylene	C	D	D	D	D	A

Please note: All information is provided without guarantee. The user must ensure that the tubes are suitable for the desired application; appropriate tests may have to be carried out.

i. W. = in the water

	Chemical	P	S	T	TU	TK	V
	Perchloric acid, 67 % i. w.	A	D	C	D	A	A
	Phenol, i. w.	A	D	D	C	A	–
	Phosphoric acid, 25 % i. w.	A	D	A	A	A	A
	Phthalic acid, 9 % i.alc.	A	B	D	C	B	–
	Propanol (Propyl alcohol)	C	A	D	D	A	B
	Pyridine	C	D	D	D	C	D
Q	Mercury salts	A	A	A	A	A	–
S	Nitric acid, 10 % i. w.	A	C	A	D	A	A
	Nitric acid, 35 % i. w.	A	D	A	D	A	A
	Nitric acid, 68–71 % i. w.	D	D	D	D	D	–
	Nitrous acid, 10 % i. w.	A	B	A	C	A	–
	Hydrochloric acid, 10 % i. w.	A	D	A	A	A	A
	Hydrochloric acid, 37 % i. w.	B	D	A	D	A	B
	Sulphurous acid	A	A	A	A	A	A
	Sulfuric acid, 10 % i. w.	A	A	A	B	A	A
	Sulfuric acid, 30 % i. w.	A	B	A	B	A	A
	Sulfuric acid, 95–98 % i. w..	D	D	D	D	C	A
	Soapy water	B	A	A	A	A	A
	Silver nitrate, 55 % i. w.	A	A	A	A	A	A
	Silicone oil	C	D	B	A	B	A
	Stearic acid, 5 % i.alc.	C	D	D	B	B	–
T	Turpentines	D	D	D	B	A	A
	Carbon tetrachloride	D	D	D	D	D	A
	Toluene	D	D	D	D	C	A
	Trichloroacetic acid, 90 % i. w.	B	D	A	D	A	C
	Trichlorethylene	C	D	D	D	C	A
	Trisodium phosphate	A	A	A	A	A	A
W	Hydrogen peroxide, 10 % i. w.	A	A	A	A	A	A
	Hydrogen peroxide, 90 % i. w.	B	C	D	D	B	–
	Tartaric acid, 56 % i. w.	A	A	A	A	A	A
X	Xylene	D	D	D	D	C	B
Z	Zinc chloride, 80 % i. w.	A	A	A	A	A	A
	Tin salts	A	A	A	A	A	–

Hoses:

P = PharMed®
S = Silicone
T = Tygon® Standard
TU = Tygon® (Hydrocarbons)
TK = Tygon® 2001 (Food)
V = Viton®

Resistance:

A = very good
B = good
C = satisfactory
D = not suitable
– = not tested

Packages

Hei-FLOW peristaltic pumps



Hei-FLOW SILVER 1

- Hei-FLOW Core 120
- SP quick 1.6
- 1 m each Tygon and silicone tube (inside Ø 3.1 mm)

P/N 523-50019-00

Hei-FLOW SILVER 2

- Hei-FLOW Core 600
- SP standard 2.5
- 1 m each Tygon and silicone tube (inside Ø 6.4 mm)

P/N 523-50068-00

Hei-FLOW GOLD

- Hei-FLOW Expert 120
- SP quick 1.6
- 1 m each Tygon and silicone tube (inside Ø 0.8 mm)

P/N 523-51019-00

Hei-FLOW PLATINUM

- Hei-FLOW Ultimate 120
- SP quick 1.6
- 1 m each Tygon and silicone tube (inside Ø 0.8 mm)

P/N 523-52019-00

