

Premium Laboratory Equipment



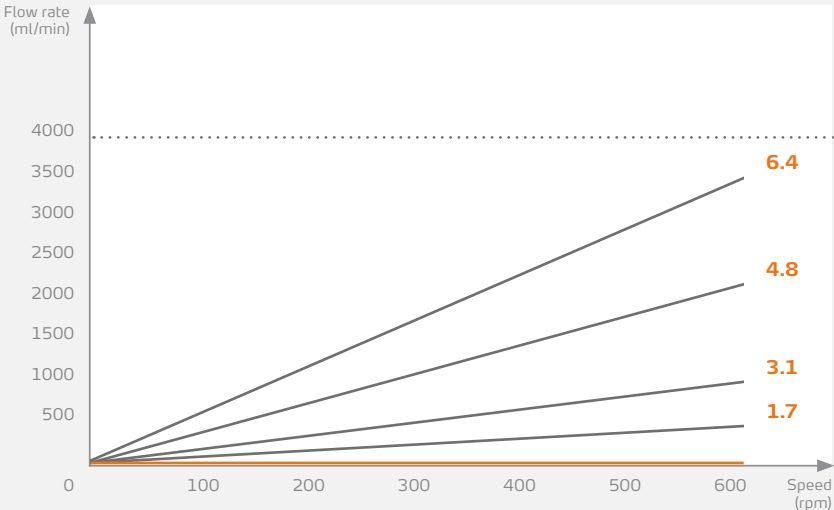
Hei-FLOW

Pump head flow rates and tubing sizes

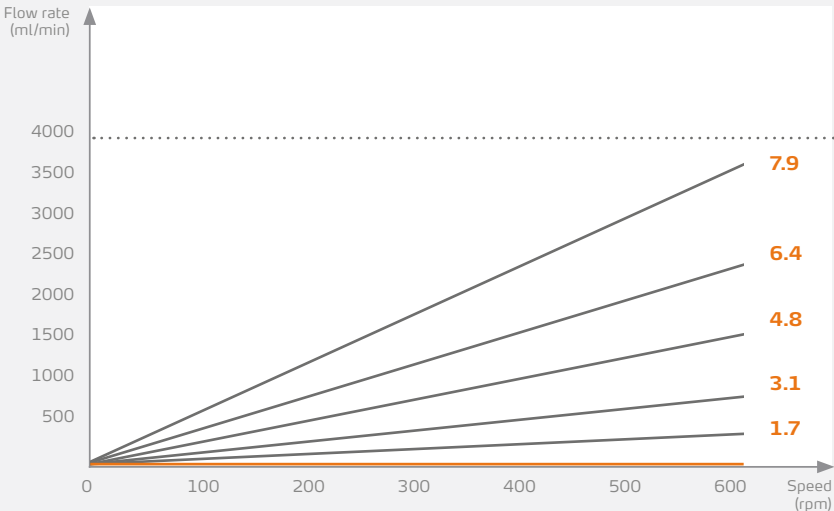
Single-Channel Pump Heads

Flow rate

SP standard SP vario



SP quick



Tubing sizes and flow rates for Singel-Channel Pumps

| Tubing sizes | | | | | | |
|--|---------------------|---------|---------|---------|---------|---------|
| Inner diameter | (mm) | 0.8 | 1.7 | 3.1 | 4.8 | 6.4 |
| Outer diameter | (mm) | 4 | 4.9 | 6.3 | 8 | 9.5 |
| Wall thickness (wt) | (mm) | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Max. pressure (continuous/ short time) | (bar) | 0.7/1.7 | 0.7/1.7 | 0.7/1.7 | 0.5/1.5 | 0.5/1.5 |
| Suction height | (mH ₂ O) | 8.8 | 8.8 | 8.8 | 8.8 | 6.7 |

| Average flow rates in combination with pump head and pump drive | | | | | | | | | | | |
|---|----------|------|------|------|------|------|-------|------|-------|------|-------|
| SP quick | | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. |
| Hei-FLOW Advantage o6/ Hei-FLOW Precision o6 | (ml/min) | 2 | 33 | 8 | 186 | 26 | 653 | 59 | 1,529 | 89 | 2,072 |
| Hei-FLOW Value o6 | (ml/min) | 4 | 35 | 17 | 197 | 57 | 695 | 123 | 1,494 | 186 | 1,765 |
| Hei-FLOW Advantage o1/ Hei-FLOW Precision o1 | (ml/min) | 0.38 | 9 | 2 | 40 | 5 | 126 | 12 | 233 | 17 | 409 |
| Hei-FLOW Value o1 | (ml/min) | 0.83 | 9 | 3 | 41 | 11 | 134 | 25 | 292 | 36 | 413 |
| SP standard/ SP vario | | | | min. | max. | min. | max. | min. | max. | min. | max. |
| Hei-FLOW Advantage o6/ Hei-FLOW Precision o6 | (ml/min) | | | 11 | 257 | 43 | 1,017 | 105 | 2,549 | 167 | 4,056 |
| Hei-FLOW Value o6 | (ml/min) | | | 22 | 249 | 93 | 1,037 | 228 | 2,613 | 364 | 4,151 |
| Hei-FLOW Advantage o1/ Hei-FLOW Precision o1 | (ml/min) | | | 2 | 55 | 9 | 221 | 21 | 530 | 33 | 813 |
| Hei-FLOW Value o1 | (ml/min) | | | 5 | 61 | 19 | 223 | 44 | 519 | 75 | 861 |

| Tubing P/N (per meter) | | | | | |
|------------------------|--------------|--------------|--------------|--------------|--------------|
| 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® (hydrocarbon) | 525-73000-00 | 525-74000-00 | 525-76000-00 | 525-70027-00 | 525-70028-00 |
| Tygon® 2001 (food) | 525-83000-00 | 525-84000-00 | 525-86000-00 | 525-80027-00 | 525-80028-00 |

| Tubing sizes | | | | |
|--|---------------------|---------|-----------|-----------|
| Inner diameter | (mm) | 4.8 | 6.4 | 7.9 |
| Outer diameter | (mm) | 9.8 | 11.3 | 12.9 |
| Wall thickness (wt) | (mm) | 2.5 | 2.5 | 2.5 |
| Max. pressure (continuous/ short time) | (bar) | 0.8/1.8 | 0.8 / 1.8 | 0.8 / 1.8 |
| Suction height | (mH ₂ O) | 8.8 | 8.8 | 8.8 |

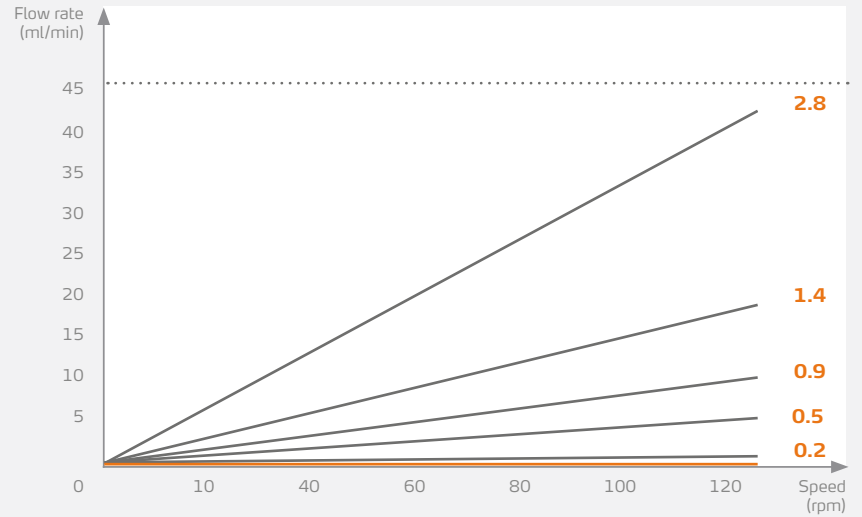
| Average flow rates in combination with pump head and pump drive | | | | | | | |
|---|----------|------|-------|------|-------|------|-------|
| SP quick | | min. | max. | min. | max. | min. | max. |
| Hei-FLOW Advantage o6/ Hei-FLOW Precision o6 | (ml/min) | 58 | 1,527 | 85 | 2,248 | 113 | 3,171 |
| Hei-FLOW Value o6 | (ml/min) | 123 | 1,580 | 180 | 2,411 | 257 | 3,436 |
| Hei-FLOW Advantage o1/ Hei-FLOW Precision o1 | (ml/min) | 12 | 299 | 18 | 435 | 25 | 630 |
| Hei-FLOW Value o1 | (ml/min) | 26 | 299 | 38 | 454 | 50 | 636 |
| SP standard/SP vario | | min. | max. | min. | max. | | |
| Hei-FLOW Advantage o6/ Hei-FLOW Precision o6 | (ml/min) | 92 | 2,390 | 139 | 3,821 | | |
| Hei-FLOW Value o6 | (ml/min) | 203 | 2,426 | 313 | 3,782 | | |
| Hei-FLOW Advantage o1/ Hei-FLOW Precision o1 | (ml/min) | 15 | 491 | 28 | 769 | | |
| Hei-FLOW Value o1 | (ml/min) | 42 | 493 | 68 | 773 | | |

| Tubing P/N (per meter) | | | |
|------------------------|--------------|--------------|--------------|
| Silicone | 525-35000-00 | 525-39000-00 | 525-32000-00 |
| Viton® | 525-55000-00 | 525-59000-00 | 525-52000-00 |
| PharMed® | 525-25000-00 | 525-29000-00 | 525-22000-00 |
| Tygon® (standard) | 525-65000-00 | 525-69000-00 | 525-62000-00 |
| Tygon® (hydrocarbon) | 525-75000-00 | 525-79000-00 | 525-72000-00 |
| Tygon® 2001 (food) | 525-85000-00 | 525-89000-00 | - |

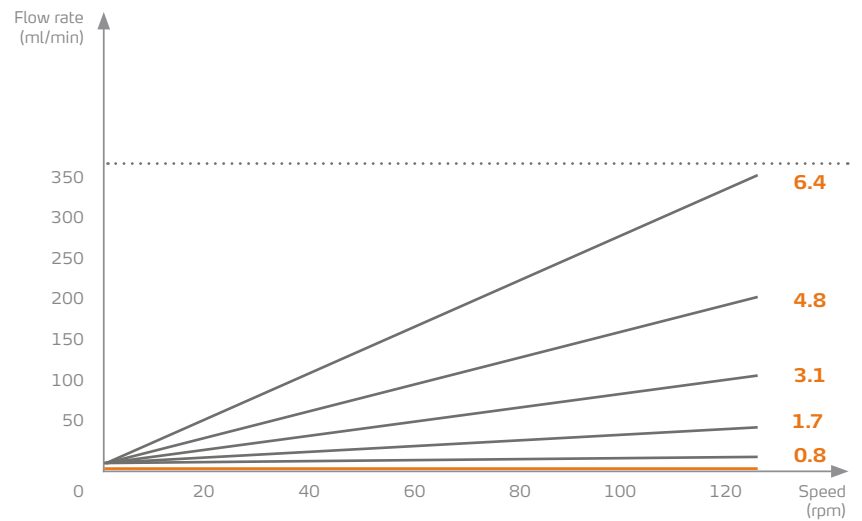
Multi-Channel Pump Heads

Flow rates pertain to water

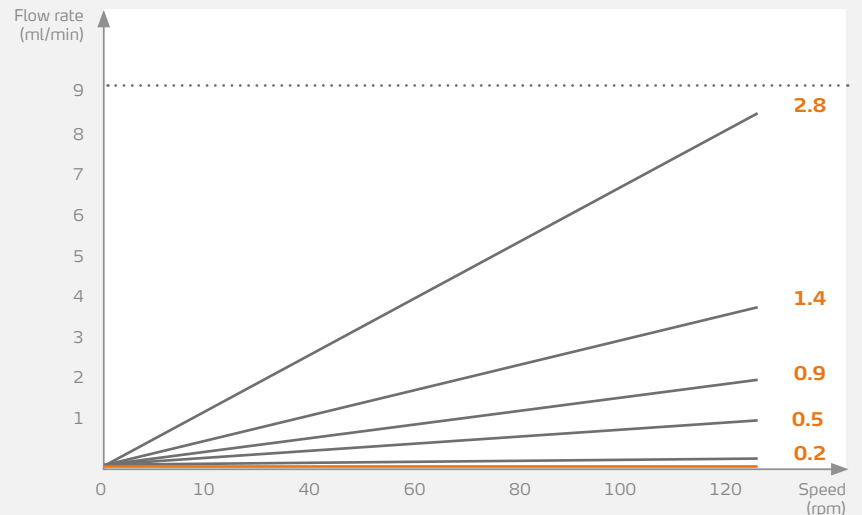
Pump Head C 4



Pump Head C 8



Pump Head C 12



Tubing sizes and flow rates for Multi-Channel Pumps

| Tubing sizes | | 0.2 | 0.5 | 0.9 | 1.4 | 2.8 |
|---------------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|
| Inner diameter | (mm) | 0.25 | 0.51 | 0.89 | 1.42 | 2.79 |
| Outer diameter | (mm) | 2.05 | 2.31 | 2.69 | 3.22 | 4.59 |
| Wall thickness (wt) | (mm) | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| Max. pressure (continuous/short time) | (bar) | 0.5 / 1.5 | 0.5 / 1.5 | 0.5 / 1.5 | 0.5 / 1.5 | 0.5 / 1.5 |
| Suction height | (mH ₂ O) | 7 | 7 | 7 | 7 | 7 |

Average flow rates in combination with cassette, pump head and pump drive

| Hei-FLOW Advantage 01 / Hei-FLOW Precision 01 | | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | max.* |
|---|----------|-------|------|------|------|------|------|------|------|------|------|-------|
| 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 |
| Hei-FLOW Value 01 | | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | |
| Cassette small / pump head C 12 | (ml/min) | 0.005 | 0.11 | 0.02 | 0.42 | 0.10 | 1 | 0.23 | 3 | 0.69 | 8 | 12 |
| Cassette small / pump head C 4 | (ml/min) | 0.04 | 0.53 | 0.17 | 2 | 0.57 | 6 | 1 | 15 | 4 | 37 | 4 |

* max. number of cassettes

Tubing P/N

| | | | | | | |
|-------------------------------------|------------------------------------|--------------|--------------|--------------|--------------|--------------|
| Silicone | Two-Stop Tubing for cassette small | | | 525-30014-00 | 525-30015-00 | 525-30016-00 |
| | Extension tube (per meter) | | | 525-30024-00 | 525-30025-00 | 525-30026-00 |
| Viton® | Two-Stop Tubing for cassette small | | | 525-50014-00 | 525-50015-00 | 525-50016-00 |
| | Extension tube (per meter) | | | 525-50024-00 | 525-50025-00 | 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 (per 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 tube (per meter) | 525-60022-00 | 525-60023-00 | 525-60024-00 | 525-60025-00 | 525-60026-00 |
| Fittings for extension tubes (PTFE) | | 526-22000-00 | 526-22000-00 | 526-22000-00 | 526-22000-00 | 526-22000-00 |

| Tubing sizes | | 0.8 | 1.7 | 3.1 | 4.8 | 6.4 |
|---------------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|
| Inner diameter | (mm) | 0.8 | 1.7 | 3.1 | 4.8 | 6.4 |
| Outer diameter | (mm) | 4 | 4.9 | 6.3 | 8 | 9.5 |
| Wall thickness (wt) | (mm) | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Max. pressure (continuous/short time) | (bar) | 0.7 / 1.7 | 0.7 / 1.7 | 0.7 / 1.7 | 0.7 / 1.7 | 0.5 / 1.5 |
| Suction height | (mH ₂ O) | 8.8 | 8.8 | 8.8 | 8.8 | 6.7 |

Average flow rates in combination with cassette, pump head and pump drive

| Hei-FLOW Advantage 01 / Hei-FLOW Precision 01 | | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | |
|---|----------|------|------|------|------|------|------|------|------|------|------|---|
| Cassette medium / pump head C 8 | (ml/min) | 0.24 | 7 | 1 | 26 | | | | | | 8 | |
| Cassette large / pump head C 8 | (ml/min) | | | 1 | 27 | 4 | 90 | 8 | 192 | 11 | 329 | 4 |
| Hei-FLOW Value 01 | | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | |
| Cassette medium / pump head C 8 | (ml/min) | 0.55 | 6.97 | 2.17 | 27 | | | | | | 8 | |
| Cassette large / pump head C 8 | (ml/min) | | | 2 | 27 | 7 | 85 | 18 | 246 | 26 | 364 | 4 |




Tubing P/N (per meter):




| | | | | | |
|----------------------|--------------|--------------|--------------|--------------|--------------|
| 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® (hydrocarbon) | 525-73000-00 | 525-74000-00 | 525-76000-00 | 525-70027-00 | 525-70028-00 |
| Tygon® 2001 (food) | 525-83000-00 | 525-84000-00 | 525-86000-00 | 525-80027-00 | 525-80028-00 |

Flow rates pertain to Tygon® (standard) tubing and water

Tubes

Tubing Options

| |  Tygon® standard |  Tygon® 2001 for food |  Tygon® for hydrocarbons |
|------------------------------------|---|--|---|
| Application | For standard applications | Food industry, wellsuited to products with high fat content | Especially for hydrocarbons, mineral oil products and distillates |
| Features | <ul style="list-style-type: none"> Non-toxic, non-oxidizing Good resistance to acids, bases and inorganic media Very low gas permeability, good performance life | <ul style="list-style-type: none"> Extremely chemical-resistant, e. g. appropriate for the use of polar solvents Plasticizer- and oil-free Superior flex life in peristaltic pumps Translucent to aid visual inspection Outstanding flexibility | <ul style="list-style-type: none"> Ideal for petrol, kerosene, heating oil, cutting solutions and coolants on a glycol base Resistant to ozone and UV |
| Material | Thermoplastic soft PVC, transparent | Thermoplastic tube, transparent | Thermoplastic soft PVC, translucent yellow |
| Complies with the standards | FDA (21 CFR 177.2601) and GLP | USP Class VI, FDA (21 CFR 177.2600) and GLP | GLP conform |
| Temperature range | -50 to +75 °C | -78 °C to +71 °C | -40 to +75 °C |
| Sterilization | Can be autoclaved for 30 min at 1 bar and 120 °C (material may change color) or with ethylene oxide | Can be autoclaved for 30 min at 1 bar, sterilized by irradiation or with ethylene oxide | Sterilization is not recommended |
| Restriction | Segregation of plasticizers is possible | - | Not suitable for concentrated acids, lyes, food and pharmaceuticals |

| |  PharMed® |  Silicone |  Viton® |
|------------------------------------|---|--|---|
| Application | Ideal for medical, lab and research uses | Platinum-coated silicone hose for use in pharmaceuticals and biology | Excellent acid resistance at high temperatures |
| Features | <ul style="list-style-type: none"> High fatigue strength under repeated reversed bending stresses Non-toxic, biocompatible Very low gas permeability Well suited to acids and bases | <ul style="list-style-type: none"> Extremely smooth interior prevents bacterial growth Biocompatible, minimal adsorption and absorption Best flow properties, high temperature stability Absolutely inert, softener-free | <ul style="list-style-type: none"> Low gas permeability Resistant to solvents and corrosives at high temperatures |
| Material | Thermoplastic elastomer on a polypropylene base with plasticizers, excellent tensile strength, opaque | Polydimethylsiloxane with siliceous earth and silicone additives, excellent resistance to initial pressure, translucent white | Fluorocarbon rubber, thermoformed Viton B (67 % fluorinated), opaque black |
| Complies with the standards | USP Class VI, GLP, USP and Ph. Eur. | USP Class VI, meets GLP and NSF | GLP conform |
| Temperature range | -51 to +135 °C | -80 to +200 °C | -30 to +205 °C |
| Sterilization | Can be autoclaved or sterilized with ethylene oxide or sterilized by irradiation | Can be autoclaved for 30 min at 1 bar or sterilized by irradiation | Sterilization is not recommended |
| Restriction | Additives may migrate | Not suitable for concentrated solvents, oils, acids or dilute caustic soda, relatively high permeability to gas | Limited performance life |

| Use with | Tygon® standard | Tygon® 2001 for food | Tygon® for hydrocarbons | PharMed® | Silicone | Vilton® |
|----------------------|------------------------|-----------------------------|--------------------------------|-----------------|-----------------|---------------------------|
| Acids | good | excellent | good | good | conditional | excellent |
| Lyes | good | excellent | good | good | conditional | excellent |
| Solvents | unsuitable | good | conditional | unsuitable | unsuitable | varies, tests recommended |
| Pressure | good | good | good | good | satisfactory | good |
| Vacuum | good | good | good | excellent | good | good |
| Viscous media | excellent | good | excellent | good | satisfactory | good |
| Sterile media | conditional | good | conditional | excellent | excellent | satisfactory |

Tubing Resistance

| Chemical | P | S | T | TU | TK | V |
|---|---|---|---|----|----|---|
| A Acetaldehyde | D | C | D | D | D | D |
| Acetic acid, 10 % in W. | A | A | A | A | A | - |
| Acetic acid, 100 % | B | D | D | D | - | - |
| Acetic anhydride | A | A | D | D | A | D |
| Acetone | D | C | D | D | C | D |
| Acetonitrile | C | 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 % in W. | A | A | A | A | A | A |
| Aluminum sulfate, 50 % in W. | A | A | A | A | A | A |
| Alums | A | A | A | A | A | - |
| Ammonia, gas and liquid | A | D | B | B | B | D |
| Ammonium acetate, 45 % in W. | A | A | A | A | A | - |
| Ammonium carbonate, 20 % in W. | A | A | A | A | A | A |
| Ammonium chloride | A | C | A | A | A | A |
| Ammonium hydroxide, 30 % in W. | A | D | A | C | A | B |
| Ammonium nitrate | A | C | A | A | A | - |
| Ammonium phosphate | A | A | A | A | A | - |
| Ammonium sulfate | B | A | A | A | A | D |
| Amyl acetate | B | D | D | D | D | A |
| Amyl alcohol | D | D | D | A | A | A |
| Amyl chloride | C | D | D | D | D | - |
| Aniline | C | D | D | D | D | D |
| Aniline hydrochloride | C | D | D | D | D | B |
| Aqua regia (80 % HCl, 20 % HNO ₃) | D | D | D | D | A | - |
| Aromatic hydrocarbons | A | 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 |
| Boric acid, 4 % in W. | A | A | A | A | A | A |
| Bromine | D | D | D | D | D | A |
| Butane | A | A | A | A | B | A |
| Butanol (butyl alcohol) | D | B | D | A | A | A |
| Butyl acetate | B | D | D | D | D | - |
| Butyric acid | B | D | D | C | D | D |
| C Calcium oxide | A | A | A | A | A | - |
| Carbon bisulfide | D | D | D | D | D | - |
| Carbon tetrachloride | D | D | D | D | D | A |

| Chemical | P | S | T | TU | TK | V |
|--------------------------------------|---|---|---|----|----|---|
| Chlorine, wet | D | D | B | B | C | B |
| Chloroacetic acid, 20 % in W. | B | A | A | D | A | D |
| Chlorobenzene | D | D | D | D | C | A |
| Chloroform | D | D | D | D | C | A |
| Chlorobromomethane | B | D | D | D | - | A |
| Chromic acid, 20 % in W. | A | D | B | C | B | A |
| Chromic acid, 50 % in W. | C | D | C | D | - | - |
| Copper salts | A | A | A | A | A | - |
| Cyclohexane | D | D | D | C | D | A |
| Cyclohexanone | D | D | D | D | C | D |
| Chlorosulfonic acid | D | D | D | D | D | D |
| D Diesel | D | D | D | B | - | - |
| Dimethyl formamide | B | B | D | D | A | D |
| E Ethanol (ethyl alcohol) | A | B | D | B | A | A |
| Ether | C | D | D | C | D | - |
| Ethyl acetate | B | D | D | D | D | D |
| Ethyl bromide | D | D | D | D | C | - |
| Ethyl chloride | C | D | D | D | D | A |
| Ethylamine | D | C | D | D | B | - |
| Ethylene chlorhydrin | A | B | D | B | A | A |
| Ethylene dichloride | C | D | D | D | D | B |
| Ethylene glycol | A | A | A | A | A | A |
| Ethylene oxide | A | D | A | A | A | D |
| F Fatty acids | C | B | B | C | C | C |
| Ferric chloride 40 % in W. | A | A | A | A | A | B |
| Ferric sulfate 5 % in W. | A | A | A | A | A | A |
| Ferrous chloride 43 % in W. | A | A | A | A | A | - |
| Ferrous sulfate 5 % in W. | A | A | A | A | A | - |
| Fluoboric acid, 10 % in W. | D | D | A | A | A | - |
| Fluoroborate salts | A | - | A | A | A | - |
| Fluosilicic acid | C | B | D | B | A | - |
| Formaldehyde, 37 % in W. | D | C | D | D | C | D |
| Formic acid, 25 % in W. | A | A | A | C | A | D |
| Freon 11 | A | A | A | A | - | - |
| Fruit juice | A | A | A | A | A | A |
| G Gasoline, high-aromatic | D | D | D | B | D | A |
| Gasoline, non-aromatic | D | D | D | B | D | A |
| Glycerin | A | A | A | A | A | A |
| H Hydrobromic acid, 20 – 50 % | D | D | A | A | A | A |
| Hydrochloric acid, 10 % in W. | A | D | A | A | A | A |
| Hydrochloric acid, 37 % in W. | B | D | A | D | A | B |

Tubing Resistance

| Chemical | P | S | T | TU | TK | V |
|--------------------------------------|---|---|---|----|----|---|
| Hydrocyanic acid | A | A | A | A | A | A |
| Hydrofluoric acid, 10 % in W. | D | D | C | A | A | B |
| Hydrofluoric acid, 50 % | D | D | D | D | A | A |
| Hydrogen peroxide, 10 % in W. | A | A | A | A | A | A |
| Hydrogen peroxide, 90 % in W. | B | C | D | D | B | - |
| Hydroiodic acid | B | B | A | A | A | - |
| Hypochlorous acid, 25 % in W | A | A | A | A | A | A |
| I Iodine solutions | A | C | A | A | A | - |
| K Ketones | D | D | D | D | C | - |
| L Lactic acid, 10 % in W. | A | A | A | A | A | - |
| Lactic acid, 85 % in W. | B | D | D | D | - | - |
| Lead acetate, 35 % in W. | A | A | A | A | A | - |
| M Manganese salts | A | A | A | A | A | - |
| Magnesium chloride, 35 % in W. | A | A | A | A | A | A |
| Magnesium sulfate, 25 % in W. | A | A | A | A | A | - |
| Mercury salts | A | A | A | A | A | - |
| Methane | A | - | A | A | A | A |
| Methanol | A | B | D | B | A | D |
| Methyl Ethyl Ketone | D | D | D | D | C | D |
| Monoethanolamine | C | D | D | D | D | D |
| N Naphtha | D | D | D | D | D | A |
| Nickel salts | A | A | A | A | A | - |
| Nitric acid, 10 % in W. | A | C | A | D | A | A |
| Nitric acid, 35 % in W. | A | D | A | D | A | A |
| Nitric acid, 68 – 71 % in W. | D | D | D | D | D | - |
| Nitrobenzene | D | D | D | D | C | - |
| Nitrous acid, 10 % in W. | A | B | A | C | A | - |
| O Oils, animal | C | A | D | A | B | - |
| Oils, mineral | D | D | C | A | D | A |
| Oleic acid | C | B | D | B | D | B |
| P Perchloric acid, 67 % in W. | A | D | C | D | A | A |
| Perchloroethylene | C | D | D | D | D | A |
| Phenol, 91 % in W. | A | D | D | C | A | - |
| Phosphoric acid 25 % in W. | A | D | A | A | A | A |
| Phthalic acid, 9 % in Alc. | A | B | D | C | B | - |
| Potassium carbonate, 55 % in W. | A | A | A | A | A | - |
| Potassium cyanide, 33 % in W. | A | A | A | A | - | - |
| Potassium hydroxide, <10 % in W. | A | A | A | D | - | B |
| Potassium iodide, 56 % in W. | A | A | A | A | A | - |
| Propanol (propyl alcohol) | C | A | D | D | A | B |
| Pyridine | C | D | D | D | C | D |

| Chemical | P | S | T | TU | TK | V |
|------------------------------------|---|---|---|----|----|---|
| S Silicone oils | C | D | B | A | B | A |
| Silver nitrate, 55 % in W. | A | A | A | A | A | A |
| Soap solutions | B | A | A | A | A | A |
| Sodium bicarbonate, 7 % in W. | A | A | A | A | A | A |
| Sodium bisulfate | A | - | A | A | A | - |
| Sodium borate | A | A | A | A | A | A |
| Sodium carbonate | A | A | A | A | A | B |
| Sodium ferrocyanide | A | A | A | D | - | - |
| Sodium hydrosulfite | A | - | A | A | A | - |
| Sodium hydroxide, 10 – 15 % in W. | A | A | A | D | A | B |
| Sodium hydroxide, 30 – 40 % in W. | A | C | C | D | A | B |
| Sodium nitrate, 3.5 % in W. | A | A | A | A | A | - |
| Sodium sulfate, 3.6 % in W. | A | A | A | A | - | A |
| Sodium sulfide, 13 % in W. | A | A | A | A | A | - |
| Stearic acid, 5 % in Alc. | C | D | D | B | B | - |
| Sulfuric acid, 10 % in W. | A | A | A | B | A | A |
| Sulfuric acid, 30 % in W. | A | B | A | B | A | A |
| Sulfuric acid, 95 – 98 % in W. | D | D | D | D | C | A |
| Sulfurous acid | A | A | A | A | A | A |
| T Tannic acid, 75 % in W. | B | A | B | D | A | - |
| Tartaric acid, 56 % in W. | A | A | A | A | A | A |
| Tin salts | A | A | A | A | A | - |
| Toluene (toluol) | D | D | D | D | C | A |
| Trichloroacetic acid, 90 % in W. | B | D | A | D | A | C |
| Trichlorethylene | C | D | D | D | C | A |
| Trisodium phosphate | A | A | A | A | A | A |
| Turpentine | D | D | D | B | A | A |
| U Urea, 20 % in W. | A | A | A | A | A | - |
| Uric acid | A | A | A | C | A | - |
| X Xylene | D | D | D | D | C | B |
| Z Zinc chloride, 80 % in W. | A | A | A | A | A | A |

Tubing:

P = PharMed®
 S = Silicone
 T = Tygon® standard
 TU = Tygon® for hydrocarbons
 TK = Tygon® 2001 for food
 V = Viton®

Resistance:

A = excellent
B = good
C = conditional
D = unsuitable
 - = not tested

Please note:

All information provided here is not guaranteed to be correct.
 Recommended testing of tubing prior to application use.