



1 Safety gas hoses, rubber, without reinforcement

According to DIN 30664 section 1. Without cable armor. Connecting line for connecting between safety gas connection fitting according to DIN 3383-4 and gas burners for laboratories according to DIN 30665 section 1. For all gases according to DVGW worksheet G 260, at pressures up to 100 mbar and temperatures up to 70 °C. Installations according to DVGW-TRGI 2008 and DVGW worksheet G 621. DVGW Reg.-No. NG-4607AU2366. Supplied per metre.

Deutsch & Neumann

| Int. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|-------------------|----|-----------|
| 10 | 2 | 1 | 9.018 970 |



2 Gas safety tubing, rubber

Flexible connecting line of a rubber tubing with a contracted metal spiral and double-sided end sockets according to DVGW 5501(P). Kink resistant.

Deutsch & Neumann

For connecting between safety gas connection fitting according to DIN 3383-4 and gas burners for laboratories according to DIN 30665 section 1.

For all gases according to DVGW worksheet G 260, at pressures up to 100 mbar and temperatures up to 70 °C.

Installations according to DVGW-TRGI 2008 and DVGW worksheet G 621. DVGW Reg.-No. DG-4607AU2366.

Sold only in specified length

| Length mm | PK | Cat. No. |
|-----------|----|-----------|
| 500 | 1 | 9.018 935 |
| 600 | 1 | 9.018 936 |
| 750 | 1 | 9.018 937 |
| 1000 | 1 | 9.018 940 |
| 1250 | 1 | 9.018 942 |
| 1500 | 1 | 9.018 945 |
| 2000 | 1 | 9.018 950 |
| 3000 | 1 | 9.018 960 |



3 Tubing

Red. Rubber (NR). Durometer 45 Shore A. Supplied per metre or in standard coils of 25 m.

Deutsch & Neumann

| Int. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|-------------------|----|-----------|
| 2 | 1.0 | 1 | 9.205 157 |
| 3 | 1.0 | 1 | 9.205 158 |
| 3 | 1.5 | 1 | 9.205 159 |
| 4 | 1.0 | 1 | 9.205 160 |
| 4 | 1.5 | 1 | 9.205 166 |
| 4 | 2.0 | 1 | 6.076 831 |
| 5 | 1.5 | 1 | 9.205 170 |
| 5 | 2.0 | 1 | 9.205 171 |
| 6 | 1.5 | 1 | 9.205 173 |
| 6 | 2.0 | 1 | 9.205 174 |
| 7 | 1.5 | 1 | 9.205 179 |
| 7 | 2.0 | 1 | 9.205 180 |
| 8 | 2.0 | 1 | 9.205 184 |
| 9 | 2.0 | 1 | 9.205 187 |
| 10 | 2.0 | 1 | 9.205 192 |
| 12 | 2.5 | 1 | 9.205 195 |
| 15 | 3.0 | 1 | 6.054 526 |
| 18 | 3.0 | 1 | 9.205 200 |



4 Vacuum tubing, rubber

Red. Rubber (NR). Durometer 45 Shore A. Supplied per metre or standard coils of 25 m.

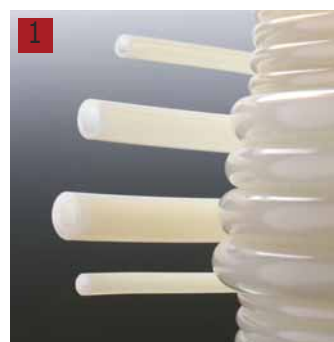
Deutsch & Neumann

| Int. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|-------------------|----|-----------|
| 4 | 4 | 1 | 9.205 804 |
| 5 | 4 | 1 | 6.075 946 |
| 5 | 5 | 1 | 9.205 805 |
| 6 | 4 | 1 | 6.079 829 |
| 6 | 5 | 1 | 9.205 806 |
| 7 | 4 | 1 | 6.077 239 |
| 7 | 5 | 1 | 9.205 807 |
| 8 | 5 | 1 | 9.205 808 |
| 8 | 6 | 1 | 6.053 348 |
| 10 | 3 | 1 | 6.078 678 |
| 10 | 5 | 1 | 9.205 809 |
| 10 | 8 | 1 | 6.078 473 |
| 12 | 5 | 1 | 6.054 195 |

1 Vacuum Tubing, Silicone

Deutsch & Neumann

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 3 | 9 | 3 | 1 | 6.071 718 |
| 4 | 12 | 4 | 1 | 6.086 397 |
| 5 | 15 | 5 | 1 | 6.302 123 |
| 6 | 12 | 3 | 1 | 6.077 377 |
| 7 | 13 | 3 | 1 | 6.052 545 |
| 7 | 15 | 4 | 1 | 6.076 513 |
| 7 | 17 | 5 | 1 | 6.210 064 |
| 8 | 16 | 4 | 1 | 6.050 803 |
| 8 | 18 | 5 | 1 | 6.077 451 |
| 10 | 20 | 5 | 1 | 6.077 452 |
| 12 | 22 | 5 | 1 | 7.604 078 |

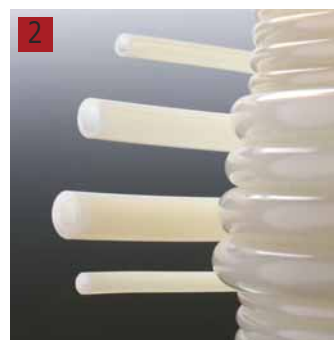


2 Tubing, Silicone

Deutsch & Neumann

Silicone rubber (VMQ), transparent, hardness 60 Shore A, food grade, temperature-resistant from -60 to 200 °C (short term up to 260 °C), suitable for peristaltic pumps. BFR XV, FDA CFR 21 § 177.2600, EP-Europ. Pharmacopoeia/DAB, biocompatibility: Cytotoxicity (USP Class 1-6), Hemolysis, Pyrogenicity, Sensitization, Dermatological Irritation, Implantation (90 days) according to ISO 10993-1. Supplied per meter.

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 0.5 | 1.3 | 0.40 | 1 | 6.056 925 |
| 0.5 | 2.5 | 1.00 | 1 | 9.205 210 |
| 0.8 | 1.6 | 0.40 | 1 | 6.077 624 |
| 1.0 | 1.8 | 0.40 | 1 | 9.205 220 |
| 1.0 | 4.0 | 1.50 | 1 | 6.090 066 |
| 1.0 | 6.0 | 2.50 | 1 | 9.205 223 |
| 1.5 | 2.3 | 0.40 | 1 | 9.205 231 |
| 1.5 | 3.0 | 0.75 | 1 | 7.510 657 |
| 1.5 | 3.5 | 1.00 | 1 | 9.205 233 |
| 1.5 | 4.0 | 1.25 | 1 | 6.070 518 |
| 2.0 | 2.6 | 0.30 | 1 | 9.205 243 |
| 2.0 | 2.8 | 0.40 | 1 | 6.077 692 |
| 2.0 | 5.0 | 1.50 | 1 | 6.077 690 |
| 2.5 | 3.3 | 0.40 | 1 | 6.200 882 |
| 2.5 | 4.5 | 1.00 | 1 | 9.205 247 |
| 3.0 | 3.8 | 0.40 | 1 | 9.205 256 |
| 4.0 | 5.0 | 0.50 | 1 | 9.205 263 |
| 4.0 | 9.0 | 2.50 | 1 | 6.800 894 |
| 5.0 | 6.0 | 0.50 | 1 | 6.510 848 |
| 5.0 | 9.0 | 2.00 | 1 | 9.205 271 |
| 5.0 | 10.0 | 2.50 | 1 | 6.051 286 |
| 6.0 | 8.0 | 1.00 | 1 | 6.054 776 |
| 7.0 | 9.0 | 1.00 | 1 | 6.078 584 |
| 8.0 | 11.0 | 1.50 | 1 | 9.205 282 |
| 8.0 | 14.0 | 3.00 | 1 | 6.076 521 |
| 8.0 | 15.0 | 3.50 | 1 | 6.052 487 |
| 9.0 | 12.0 | 1.50 | 1 | 9.205 286 |
| 10.0 | 13.0 | 1.50 | 1 | 6.077 445 |
| 10.0 | 15.0 | 2.50 | 1 | 6.077 390 |
| 10.0 | 16.0 | 3.00 | 1 | 6.075 034 |
| 10.0 | 18.0 | 4.00 | 1 | 6.078 358 |
| 11.0 | 15.0 | 2.00 | 1 | 6.076 955 |
| 12.0 | 18.0 | 3.00 | 1 | 7.059 572 |
| 13.0 | 19.0 | 3.00 | 1 | 6.051 320 |
| 14.0 | 20.0 | 3.00 | 1 | 6.054 710 |
| 15.0 | 21.0 | 3.00 | 1 | 6.059 206 |
| 16.0 | 21.0 | 2.50 | 1 | 6.056 160 |
| 18.0 | 24.0 | 3.00 | 1 | 6.056 159 |
| 20.0 | 26.0 | 3.00 | 1 | 6.085 341 |
| 25.0 | 34.0 | 4.00 | 1 | 6.078 413 |



We can supply this
**manufacturer's whole
 product range !**



DEUTSCH & NEUMANN GmbH

Tubing/Plastic

1


1 Tubings RAULAB FG® SLIDETEC, Silicone

Rehau



Suitable for food use, non talc-coated, according to BfR XV (Silicone) and FDA 177.2600. Original roll 25 meters. Discharge per meter. Durometer 60 ±5 Shore A to DIN 53505.

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 1 | 3 | 1.0 | 1 | 9.205 000 |
| 2 | 4 | 1.0 | 1 | 9.205 001 |
| 2 | 6 | 2.0 | 1 | 9.205 002 |
| 3 | 5 | 1.0 | 1 | 9.205 003 |
| 3 | 6 | 1.5 | 1 | 9.205 004 |
| 3 | 7 | 2.0 | 1 | 9.205 005 |
| 4 | 6 | 1.0 | 1 | 9.205 006 |
| 4 | 7 | 1.5 | 1 | 9.205 007 |
| 4 | 8 | 2.0 | 1 | 9.205 008 |
| 5 | 7 | 1.0 | 1 | 9.205 009 |
| 5 | 8 | 1.5 | 1 | 9.205 010 |
| 6 | 9 | 1.5 | 1 | 9.205 011 |
| 6 | 10 | 2.0 | 1 | 9.205 012 |
| 7 | 10 | 1.5 | 1 | 9.205 013 |
| 7 | 11 | 2.0 | 1 | 9.205 280 |
| 8 | 10 | 1.0 | 1 | 9.205 014 |
| 8 | 12 | 2.0 | 1 | 9.205 015 |
| 9 | 13 | 2.0 | 1 | 9.205 017 |
| 10 | 14 | 2.0 | 1 | 9.205 018 |
| 12 | 16 | 2.0 | 1 | 9.205 020 |

2

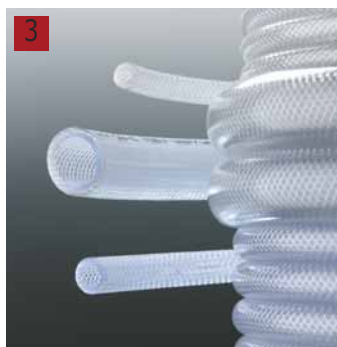

2 PVC-Tubing



Approved by BGVO directive 2002/72/EC and 2008/39/EC for food contact. Approved by KTW-C directive - Germany Federal Environment Agency for use in cold water. Durometer 77 Shore A.

Price per metre.

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 2 | 4 | 1.0 | 1 | 9.205 345 |
| 3 | 5 | 1.0 | 1 | 9.205 358 |
| 3 | 6 | 1.5 | 1 | 9.205 359 |
| 4 | 6 | 1.0 | 1 | 9.205 365 |
| 4 | 7 | 1.5 | 1 | 9.205 366 |
| 5 | 7 | 1.0 | 1 | 9.205 369 |
| 5 | 8 | 1.5 | 1 | 9.205 370 |
| 6 | 8 | 1.0 | 1 | 9.205 372 |
| 6 | 9 | 1.5 | 1 | 9.205 373 |
| 6 | 10 | 2.0 | 1 | 9.205 374 |
| 7 | 10 | 1.5 | 1 | 9.205 379 |
| 7 | 11 | 2.0 | 1 | 9.205 380 |
| 8 | 11 | 1.5 | 1 | 9.205 382 |
| 8 | 12 | 2.0 | 1 | 9.205 384 |
| 9 | 12 | 1.5 | 1 | 9.205 386 |
| 9 | 13 | 2.0 | 1 | 9.205 387 |
| 10 | 14 | 2.0 | 1 | 9.205 392 |
| 12 | 16 | 2.0 | 1 | 9.205 394 |
| 15 | 19 | 2.0 | 1 | 9.205 397 |
| 18 | 22 | 2.0 | 1 | 9.205 398 |

3


3 Fabric-reinforced tubing, PVC



Transparent. Supplied per metre or in standard coils of 50M. PVC with terylene mesh reinforcement. Certified by German TÜV with due regard to regulatory of DIN EN ISO 5774:2008. Proofed by BGVO directive 2002/72/EC bis 2008/39/EC for food contact. Durometer 77 Shore A.

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 6.0 | 12.0 | 3 | 10 | 6.291 358 |
| 8.0 | 14.0 | 3 | 10 | 6.291 359 |
| 10.0 | 16.0 | 3 | 10 | 6.291 360 |
| 12.5 | 18.5 | 3 | 10 | 6.291 361 |

1 Rubber Tubing, Viton®

Supplied per metre.

Deutsch & Neumann

- Fluoroelastomer Rubber (FPM), black
- Temperature range -10 to over +200 °C
- Good resistance to ozone and weathering, as well as benzene and mineral oil
- Durometer 75 Shore A

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 2 | 4 | 1.0 | 1 | 9.205 745 |
| 3 | 5 | 1.0 | 1 | 9.205 758 |
| 4 | 6 | 1.0 | 1 | 9.205 765 |
| 5 | 7 | 1.0 | 1 | 9.205 769 |
| 6 | 8 | 1.0 | 1 | 9.205 772 |
| 6 | 10 | 2.0 | 1 | 9.205 774 |
| 8 | 11 | 1.5 | 1 | 9.205 782 |
| 8 | 12 | 2.0 | 1 | 9.205 784 |
| 9 | 13 | 2.0 | 1 | 9.205 787 |
| 10 | 14 | 2.0 | 1 | 9.205 792 |
| 12 | 16 | 2.0 | 1 | 6.083 415 |



2 Tubing, PFA

PFA fluorocarbon resin. Highly chemical resistant and temperature resistant up to +260 °C. Supplied per metre.

BOLA

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 0.80 | 1.60 | 0.4 | 1 | 9.205 824 |
| 1.58 | 3.18 | 0.8 | 1 | 9.205 825 |
| 2.00 | 4.00 | 1.0 | 1 | 9.205 827 |
| 4.00 | 6.00 | 1.0 | 1 | 9.205 830 |
| 6.00 | 8.00 | 1.0 | 1 | 9.205 833 |
| 8.00 | 10.00 | 1.0 | 1 | 9.205 836 |
| 10.00 | 12.00 | 1.0 | 1 | 9.205 839 |



3 Tubing, PTFE

Highly chemical resistant and withstands temperatures from -200 °C to +250 °C. Supplied per metre.

BOLA

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 0.5 | 1.0 | 0.25 | 1 | 9.205 608 |
| 0.5 | 1.6 | 0.55 | 1 | 9.205 609 |
| 0.8 | 1.6 | 0.40 | 1 | 9.205 616 |
| 1.0 | 1.6 | 0.40 | 1 | 9.205 619 |
| 1.0 | 2.0 | 0.50 | 1 | 9.205 621 |
| 1.5 | 2.1 | 0.30 | 1 | 9.205 630 |
| 1.6 | 3.2 | 0.80 | 1 | 9.205 634 |
| 2.0 | 3.0 | 0.50 | 1 | 9.205 644 |
| 2.0 | 4.0 | 1.00 | 1 | 9.205 645 |
| 3.0 | 4.0 | 0.50 | 1 | 9.205 657 |
| 3.0 | 5.0 | 1.00 | 1 | 9.205 658 |
| 4.0 | 6.0 | 1.00 | 1 | 9.205 665 |
| 5.0 | 6.0 | 0.50 | 1 | 9.205 668 |
| 6.0 | 8.0 | 1.00 | 1 | 9.205 672 |
| 8.0 | 10.0 | 1.00 | 1 | 9.205 680 |



Tubing/Plastic



1 Tubing Norprene® A 60 G

Black, Thermoplastic elastomer, Shore A 61. Suitable for use as tubing for peristaltic pumps. High endurance. Resistant to many aggressive chemicals. Supplied per metre or in standard coils of 15 m.

- Temperature range -60 to +135 °C
- Superior weathering
- Abrasion resistant
- Low gas permeability versus rubber tubing
- Ozone (300 pphm) and UV light resistant

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 1.6 | 4.8 | 1.6 | 1 | 9.206 941 |
| 3.2 | 6.4 | 1.6 | 1 | 9.206 944 |
| 4.8 | 8.0 | 1.6 | 1 | 9.206 951 |
| 6.4 | 9.6 | 1.6 | 1 | 9.206 956 |
| 6.4 | 11.2 | 2.4 | 1 | 9.206 957 |
| 8.0 | 11.2 | 1.6 | 1 | 9.206 961 |
| 8.0 | 12.8 | 2.4 | 1 | 9.206 962 |
| 9.5 | 12.7 | 1.6 | 1 | 9.206 967 |
| 9.5 | 14.4 | 2.4 | 1 | 9.206 968 |
| 9.5 | 15.9 | 3.2 | 1 | 9.206 969 |
| 11.1 | 14.3 | 1.6 | 1 | 9.206 973 |
| 12.7 | 15.9 | 1.6 | 1 | 9.206 976 |
| 12.7 | 17.5 | 2.4 | 1 | 9.206 977 |



2 Tubing Versilic®, Silicone

Versilic® 60 shore tubing is biologically inert and does not inhibit cell culture. It stays flexible down to -50 °C and maintains its chemical, mechanical and electrical performance up to +200 °C. Versilic® meets the European Pharmacopoeia requirements for silicone elastomer for closures and tubing, USP Class VI biological tests and ISO 10993 biocompatibility (systemic toxicity, irritation, sensitization, citotoxicity, hemocompatibility and Ames test).

Saint Gobain

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 0.5 | 2.5 | 1.0 | 1 | 9.205 300 |
| 1.0 | 3.0 | 1.0 | 1 | 9.205 301 |
| 2.0 | 4.0 | 1.0 | 1 | 9.205 302 |
| 3.0 | 5.0 | 1.0 | 1 | 9.205 303 |
| 4.0 | 6.0 | 1.0 | 1 | 9.205 304 |
| 4.0 | 8.0 | 2.0 | 1 | 9.205 267 |
| 5.0 | 7.0 | 1.0 | 1 | 9.205 305 |
| 6.0 | 9.0 | 1.5 | 1 | 6.236 287 |
| 6.0 | 10.0 | 2.0 | 1 | 9.205 275 |
| 7.0 | 11.0 | 2.0 | 1 | 9.205 306 |
| 8.0 | 11.0 | 1.5 | 1 | 6.235 261 |
| 8.0 | 12.0 | 2.0 | 1 | 9.205 285 |
| 9.0 | 13.0 | 2.0 | 1 | 9.205 307 |
| 10.0 | 14.0 | 2.0 | 1 | 9.205 308 |
| 12.0 | 17.0 | 2.5 | 1 | 9.205 309 |



3 Tubing Iso-Versinic

Synthetic fluoroelastomer. Chemically resistant to hydrocarbons (aromatic and aliphatic), oils, strong acids, oxidizing agents and chlorous solvents. Excellent resistance to abrasion and flexing. Good ozone and radiation protection. Impermeable to gas and steam. Shore A, Density 1.9. Temperature range -20 °C to +200 °C (up to +300 °C for short periods). Elongation at tear >250 %. Suitable for transporting corrosive liquids. Supplied per metre.

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 1 | 3 | 1.0 | 1 | 9.205 700 |
| 2 | 4 | 1.0 | 1 | 9.205 701 |
| 3 | 5 | 1.0 | 1 | 9.205 702 |
| 4 | 6 | 1.0 | 1 | 9.205 703 |
| 5 | 8 | 1.5 | 1 | 9.205 704 |
| 6 | 9 | 1.5 | 1 | 9.205 705 |
| 7 | 10 | 1.5 | 1 | 9.205 706 |
| 8 | 12 | 2.0 | 1 | 9.205 707 |
| 10 | 14 | 2.0 | 1 | 9.205 708 |
| 12 | 17 | 2.5 | 1 | 9.205 709 |

1 Tubing Tygon® E-3603

Transparent. Shore A 55. Universal laboratory tubing with very good gripping properties on glass or plastic fittings. Very low gas permeability level similar to rubber. Resistant to most laboratory chemicals. Suitable for peristaltic pumps and for food and beverage dispensing. Meets FDA and USP class VI. Supplied per metre or in standard coils of 15 m.

- Temperature range -50 to +74 °C
- Smooth inner surface
- Contains no BPA or phthalates



| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 0.8 | 2.4 | 0.8 | 1 | 9.205 515 |
| 1.6 | 3.2 | 0.8 | 1 | 9.205 536 |
| 1.6 | 4.8 | 1.6 | 1 | 9.205 537 |
| 2.4 | 4.0 | 0.8 | 1 | 9.205 550 |
| 2.4 | 5.6 | 1.6 | 1 | 9.205 551 |
| 3.2 | 4.8 | 0.8 | 1 | 9.205 561 |
| 3.2 | 6.4 | 1.6 | 1 | 9.205 562 |
| 4.0 | 5.6 | 0.8 | 1 | 9.205 564 |
| 4.0 | 7.1 | 1.6 | 1 | 9.205 566 |
| 4.8 | 6.4 | 0.8 | 1 | 9.205 568 |
| 4.8 | 7.9 | 1.6 | 1 | 9.205 567 |
| 4.8 | 9.5 | 2.4 | 1 | 9.205 569 |
| 4.8 | 11.1 | 3.2 | 1 | 9.205 570 |
| 6.4 | 7.9 | 0.8 | 1 | 9.205 575 |
| 6.4 | 9.5 | 1.6 | 1 | 9.205 576 |
| 6.4 | 11.1 | 2.4 | 1 | 9.205 577 |
| 6.4 | 12.7 | 3.2 | 1 | 9.205 578 |
| 7.9 | 11.1 | 1.6 | 1 | 9.205 583 |
| 7.9 | 12.7 | 2.4 | 1 | 9.205 584 |
| 7.9 | 14.3 | 3.2 | 1 | 9.205 585 |
| 7.9 | 15.9 | 4.0 | 1 | 9.205 586 |
| 9.5 | 12.7 | 1.6 | 1 | 9.205 588 |
| 9.5 | 14.3 | 2.4 | 1 | 9.205 589 |
| 9.5 | 15.9 | 3.2 | 1 | 9.205 590 |
| 11.1 | 14.3 | 1.6 | 1 | 9.205 591 |
| 11.1 | 15.9 | 2.4 | 1 | 9.205 592 |
| 11.1 | 17.5 | 3.2 | 1 | 9.205 593 |
| 12.7 | 15.9 | 1.6 | 1 | 9.205 595 |
| 12.7 | 17.5 | 2.4 | 1 | 9.205 596 |
| 12.7 | 19.0 | 3.2 | 1 | 9.205 597 |
| 12.7 | 20.6 | 4.0 | 1 | 9.205 598 |
| 15.9 | 22.2 | 3.2 | 1 | 9.206 524 |
| 19.0 | 27.0 | 4.0 | 1 | 9.206 545 |

Further products can be found in our online shop.

2 Tubing Tygon® 3350

Silicone-platinum tubing, Shore A 50. For sterile filling systems, chemistry and blood analyzers and liquid chromatography. Biocompatibility for sensitive applications. To FDA and USP Class VI, in accordance with ISO 10993. Supplied in 15 m coil.

Saint Gobain

- Temperature range -81 to +200 °C
- Smooth inner surface
- High flexibility
- Ozone and UV resistant



| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 1.6 | 3.2 | 0.8 | 15 | 6.300 493 |
| 3.2 | 6.4 | 1.6 | 15 | 9.208 380 |
| 4.8 | 8.0 | 1.6 | 15 | 9.208 381 |
| 6.4 | 9.6 | 1.6 | 15 | 9.208 382 |
| 6.4 | 11.2 | 2.4 | 15 | 9.208 383 |
| 8.0 | 12.8 | 2.4 | 15 | 9.208 384 |
| 9.5 | 12.7 | 1.6 | 15 | 9.208 385 |
| 12.7 | 15.9 | 1.6 | 15 | 9.208 386 |
| 12.7 | 17.5 | 2.4 | 15 | 9.208 387 |

➔ More tubing in chapter 8 near the peristaltic pumps, see page 1047.

Tubing/Plastic

1


1 Tygon® tubing ELFL

Transparent, flexible, Shore A 56. *Saint Gobain*
 Temperature range -54 to +74 °C. Tygon tubing with the longest "Flex-Life" (lifespan) when used in peristaltic pumps. To FDA/USP Class VI. ISO 10993, according to REACH without phthalates. Suitable for food, drinks or pharmaceutical applications. Resists ageing and non-toxic. Resistant to many chemicals. Supplied in 7.5 m coil.

| Int. diam. mm | Ext. diam. mm | Wall thickness mm | PK | Cat. No. |
|---------------|---------------|-------------------|----|-----------|
| 1.6 | 4.8 | 1.6 | 7 | 9.208 439 |
| 3.2 | 6.4 | 1.6 | 7 | 9.208 440 |
| 4.8 | 8.0 | 1.6 | 7 | 9.208 441 |
| 6.4 | 9.6 | 1.6 | 7 | 9.208 442 |
| 8.0 | 11.2 | 1.6 | 7 | 9.208 443 |
| 9.5 | 15.9 | 3.2 | 7 | 9.208 444 |
| 12.7 | 19.1 | 3.2 | 7 | 9.208 445 |

2


2 Flow indicators LaboPlast®


Bürkle

Gives a visual indication of liquid or gas flow in tubing. Operates in both directions and at any angle. Can accommodate flow rates down to approx. 150 ml/min Length incl. nozzle 88 mm. For tubing from 6mm to 11 mm diameter. Maximum pressure: 2 bar. Food Safe.

Choice of models:

- LiquiMobil made of SAN up to 30 °C working temperature
- CheMobil made of PMP up to 60 °C working temperature, autoclavable good, chemically resistance

| Type | Colour | PK | Cat. No. |
|----------------|--------|----|-----------|
| LiquiMobil/SAN | blue | 1 | 9.003 910 |
| LiquiMobil/SAN | red | 1 | 9.003 911 |
| LiquiMobil/SAN | black | 1 | 9.003 912 |
| CheMobil/ PMP | blue | 1 | 9.003 913 |
| CheMobil/ PMP | red | 1 | 9.003 901 |
| CheMobil/PMP | black | 1 | 9.003 914 |

3


3 LLG-Hose cutter

A perfect tool to cut even thick hoses with external diameter from 6.0 mm to 25 mm. The cut edges of tubings with the tube cutter are always clean and flat. Offers a clean and sharp cut of tubings in few seconds. Hose cutter has a two end blade which can be turned when one gets blunt and the other sharp side used.

| Description | PK | Cat. No. |
|---------------------|----|-----------|
| for diam. 6 - 25 mm | 1 | 6.267 395 |

Spare blades for LLG-Hose cutter

For dia. 6 - 25 mm.

| Type | PK | Cat. No. |
|----------------------------------|----|-----------|
| Spare blades for LLG-Hose cutter | 30 | 4.671 809 |

4


4 Plastic tubing cutter

Portable, pocket-sized cutter cuts flexible tubing from 1.6 to 19 mm O.D. *Bel-Art Products*
 The jaw is lightly spring-loaded and will remain closed for safety when not in use. A replaceable, hardened steel blade makes clean, straight cuts.

| Type | PK | Cat. No. |
|-------------------|----|-----------|
| Tubing cutter | 1 | 9.205 898 |
| Replacement blade | 1 | 9.205 899 |

1. General laboratory consumables

Tubing/Adapters, Clips, Clamps

1 Messfix tubing gauge

Small, red, handy polypropylene gauge.
For rapid measurement of internal and external diameters of tubing, test tubes etc. within the range 1.5 mm to 16 mm.

schuett-biotec



| Width mm | Depth mm | Height mm | PK | Cat. No. |
|----------|----------|-----------|----|-----------|
| 50 | 120 | 12 | 1 | 9.205 800 |

General Purpose Couplings with valve, PMC Series, Acetal

PMC coupling natural white, for standard applications, such as optical testing equipment, analytical equipment for chemicals, medical equipment and gas testing systems. Both coupling elements are fitted with a valve. When disconnecting the coupling, both sides close tightly. Main components and stop valve made of acetal. Unlocking button, springs and pins made of stainless steel 316. Material O-rings: Buna-N

Colder Products Company

- Unlocking button for one-handed operation
- Integrated connections for short installation lengths and fast installation
- With stop valve
- Combinable with MC Series couplings

Specifications

Nominal size: 1/8"
Operating pressure: Vacuum up to 8.3 bar
Operating temperature: -40 ... 82 °C



| Type | Connection diam. inside | Overall length mm | PK | Cat. No. |
|--|-------------------------|-------------------|----|-----------|
| Coupling PMCD1002BSPT, thread | 1/8" BSPT | 25.4 | 1 | 4.662 891 |
| Coupling PMCD1004BSPT, thread | 1/4" BSPT | 27.9 | 1 | 4.662 893 |
| Coupling PMCD1601, tubing nozzle | 1/16", 1.6 mm | 35.6 | 1 | 4.662 897 |
| Coupling PMCD1602, tubing nozzle | 1/8", 3.2 mm | 41.9 | 1 | 4.662 899 |
| Coupling PMCD1603, tubing nozzle | 3/16", 4.8 mm | 47.0 | 1 | 4.662 901 |
| Coupling PMCD1604, tubing nozzle | 1/4", 6.4 mm | 47.0 | 1 | 4.662 902 |
| Coupling PMCD1701, tubing nozzle | 1/16", 1.6 mm | 35.8 | 1 | 4.662 904 |
| Coupling PMCD1702, tubing nozzle | 1/8", 3.2 mm | 41.9 | 1 | 4.662 906 |
| Coupling PMCD1703, tubing nozzle | 3/16", 4.8 mm | 47.0 | 1 | 4.662 908 |
| Coupling PMCD1704, tubing nozzle | 1/4", 6.4 mm | 47.0 | 1 | 4.662 909 |
| Coupling PMCD13025, In-Line compression fitting | 0.10", 2.5 mm | 41.9 | 1 | 4.662 894 |
| Coupling PMCD1304, In-Line compression fitting | 0.17", 4.3 mm | 44.5 | 1 | 4.662 895 |
| Coupling plug PMCD2402BSPT, thread | 1/8" BSPT | 36.6 | 1 | 4.662 926 |
| Coupling plug PMCD2404BSPT, thread | 1/4" BSPT | 36.1 | 1 | 4.662 928 |
| Coupling plug PMCD4201, tubing nozzle | 1/16", 1.6 mm | 38.1 | 1 | 4.662 929 |
| Coupling plug PMCD4202, tubing nozzle | 1/8", 3.2 mm | 44.5 | 1 | 4.662 930 |
| Coupling plug PMCD4203, tubing nozzle | 3/16", 4.8 mm | 49.5 | 1 | 4.662 931 |
| Coupling plug PMCD4204, tubing nozzle | 1/4", 6.4 mm | 49.5 | 1 | 4.662 932 |
| Coupling plug PMCD2201, tubing nozzle | 1/16", 1.6 mm | 37.3 | 1 | 4.662 915 |
| Coupling plug PMCD2202, tubing nozzle | 1/8", 3.2 mm | 42.4 | 1 | 4.662 917 |
| Coupling plug PMCD2203, tubing nozzle | 3/16", 4.8 mm | 47.8 | 1 | 4.662 919 |
| Coupling plug PMCD2204, tubing nozzle | 1/4", 6.4 mm | 43.2 | 1 | 4.662 920 |
| Coupling plug PMCD2302, tubing nozzle | 1/8", 3.2 mm | 30.7 | 1 | 4.662 922 |
| Coupling plug PMCD2304, tubing nozzle | 1/4", 6.4 mm | 30.7 | 1 | 4.662 924 |
| Coupling plug PMCD20025, In-Line compression fitting | 0.10", 2.5 mm | 41.9 | 1 | 4.662 911 |
| Coupling plug PMCD2004, In-Line compression fitting | 0.17", 4.3 mm | 39.9 | 1 | 4.662 912 |
| Coupling plug PMCD2006, In-Line compression fitting | 0.25", 6.4 mm | 38.6 | 1 | 4.662 914 |



1


4.662 896

General Purpose Couplings with valve, PMC12 Series, PP

PMC12 coupling beige, for more demanding applications, such as microbiological analysis equipment, cleaner concentrates, electroplating fluids, sterilisation equipment and water pollutant analysis. Both coupling parts are fitted with a valve. When disconnecting the coupling, both sides close tightly. Main components and stop valve made of PP. Unlocking button, springs and pins made of stainless steel 316.

Colder Products Company

Material O-rings: EPDM

- Unlocking button for one-handed operation
- Integrated connections for short installation lengths and fast installation
- With stop valve
- Sterilizable with gamma rays

2


4.662 923

Specifications

Nominal size valve: 1/8"
 Operating pressure: 8.3 bar, 120 psi
 Operating temperature: 0 ... 71 °C

| Type | Connection diam. inside | Overall length mm | PK | Cat. No. |
|---|-------------------------|-------------------|----|-----------|
| Coupling PMCD100212BSPT, thread | 1/8" BSPT | 25.4 | 1 | 4.662 890 |
| Coupling PMCD100412BSPT, thread | 1/4" BSPT | 27.9 | 1 | 4.662 892 |
| Coupling PMCD160112, tubing nozzle | 1/16", 1,6 mm | 35.6 | 1 | 4.662 898 |
| Coupling PMCD160212, tubing nozzle | 1/8", 3,2 mm | 41.9 | 1 | 4.662 900 |
| Coupling PMCD160412, tubing nozzle | 1/4", 6,4 mm | 47.0 | 1 | 4.662 903 |
| Coupling PMCD170112, tubing nozzle | 1/16", 1,6 mm | 36.1 | 1 | 4.662 905 |
| Coupling PMCD170212, tubing nozzle | 1/8", 3,2 mm | 42.4 | 1 | 4.662 907 |
| Coupling PMCD170412, tubing nozzle | 1/4", 6,4 mm | 47.5 | 1 | 4.662 910 |
| Coupling PMCD130412, In-Line compression fitting | 0.17", 4,3 mm | 44.2 | 1 | 4.662 896 |
| Coupling plug PMCD24042812, thread | 1/4" UNF | 40.2 | 1 | 4.662 927 |
| Coupling plug PMCD220112, tubing nozzle | 1/16", 1,6 mm | 37.3 | 1 | 4.662 916 |
| Coupling plug PMCD220212, tubing nozzle | 1/8", 3,2 mm | 42.4 | 1 | 4.662 918 |
| Coupling plug PMCD220412, tubing nozzle | 1/4", 6,4 mm | 43.4 | 1 | 4.662 921 |
| Coupling plug PMCD230212, tubing nozzle | 1/8", 3,2 mm | 30.7 | 1 | 4.662 923 |
| Coupling plug PMCD230412, tubing nozzle | 1/4", 6,4 mm | 30.7 | 1 | 4.662 925 |
| Coupling plug PMCD200412, In-Line compression fitting | 0.17", 4,3 mm | 40.1 | 1 | 4.662 913 |

3


4.662 851

General Purpose Couplings with valve, PLC12 Series, PP

PLC12 coupling, beige, for more demanding applications, such as battery filling systems, disinfectants, dosing pumps, pharmaceutical production and chemical processing in the semiconductor industry. Both coupling parts are fitted with a valve. When disconnecting the coupling, both sides close tightly. Main components and stop valve made of PP. Unlocking button, springs and pins made of stainless steel 316.

Colder Products Company

Material O-rings: EPDM

- Unlocking button for one-handed operation
- Integrated connections for short installation lengths and fast installation
- With stop valve
- Sterilizable with gamma rays

4


4.662 873

Specifications

Nominal size valve: 1/4"
 Operating pressure: 8.3 bar, 120 psi
 Operating temperature: 0 ... 71 °C

| Type | Connection diam. inside | Overall length mm | PK | Cat. No. |
|---|-------------------------|-------------------|----|-----------|
| Coupling PLCD1000412BSPT, thread | 1/4" BSPT | 29.2 | 1 | 4.662 845 |
| Coupling PLCD1000612BSPT, thread | 3/8" BSPT | 29.2 | 1 | 4.662 847 |
| Coupling PLCD1600412, tubing nozzle | 1/4", 6,4 mm | 49.5 | 1 | 4.662 855 |
| Coupling PLCD1600612, tubing nozzle | 3/8", 9,5 mm | 49.5 | 1 | 4.662 858 |
| Coupling PLCD1700412, tubing nozzle | 1/4", 6,4 mm | 49.8 | 1 | 4.662 860 |
| Coupling PLCD1700612, tubing nozzle | 3/8", 9,5 mm | 49.8 | 1 | 4.662 863 |
| Coupling PLCD1300612, In-Line compression fitting | 0.25", 6,4 mm | 49.8 | 1 | 4.662 851 |
| Coupling plug PLCD2400412, thread | 1/4" NPT | 42.4 | 1 | 4.662 878 |
| Coupling plug PLCD2200412, tubing nozzle | 1/4", 6,4 mm | 50.8 | 1 | 4.662 870 |
| Coupling plug PLCD2200612, tubing nozzle | 3/8", 9,5 mm | 46.2 | 1 | 4.662 873 |
| Coupling plug PLCD2300412, tubing nozzle | 1/4", 6,4 mm | 34.5 | 1 | 4.662 875 |
| Coupling plug PLCD2300612, tubing nozzle | 3/8", 9,5 mm | 36.1 | 1 | 4.662 877 |
| Coupling plug PLCD2000612, In-Line compression fitting | 0.25", 6,4 mm | 46.2 | 1 | 4.662 866 |
| Coupling plug PLCD4200412, panel mounting tubing nozzle | 1/4", 6,4 mm | 52.1 | 1 | 4.662 886 |
| Coupling plug PLCD4200612, panel mounting tubing nozzle | 3/8", 9,5 mm | 52.1 | 1 | 4.662 889 |

1. General laboratory consumables

Tubing/Adapters, Clips, Clamps

General Purpose Couplings with valve, PLC Series, Acetal

PMC coupling natural white, the most used coupling series, especially for applications such as floor cleaning equipment, deionized water filtration, automated machines, compression therapy and leak detectors. Both coupling elements are fitted with a valve. When disconnecting the coupling, both sides close tightly. Main components and stop valve made of acetal. Unlocking button, springs and pins made of stainless steel 316. Material O-rings: Buna-N

Colder Products Company

- Unlocking button for one-handed operation
- Integrated connections for short installation lengths and fast installation
- With stop valve
- Combinable with LC Series couplings

Specifications

Nominal size valve: 1/4"
 Operating pressure: 8.3 bar, 120 psi
 Operating temperature: -40 ... 82 °C

1



4.662 852

2



4.662 880

| Type | Connection diam. inside | Overall length mm | PK | Cat. No. |
|--|-------------------------|-------------------|----|-----------|
| Coupling PLCD10004BSPT, thread | 1/4" BSPT | 29.2 | 1 | 4.662 846 |
| Coupling PLCD10006BSPT, thread | 3/8" BSPT | 29.2 | 1 | 4.662 848 |
| Coupling PLCD16004, tubing nozzle | 1/4", 6,4 mm | 49.5 | 1 | 4.662 854 |
| Coupling PLCD16005, tubing nozzle | 5/16", 7,9 mm | 49.5 | 1 | 4.662 856 |
| Coupling PLCD16006, tubing nozzle | 3/8", 9,5 mm | 49.5 | 1 | 4.662 857 |
| Coupling PLCD17004, tubing nozzle | 1/4", 6,4 mm | 49.5 | 1 | 4.662 859 |
| Coupling PLCD17005, tubing nozzle | 5/16", 7,9 mm | 49.5 | 1 | 4.662 861 |
| Coupling PLCD17006, tubing nozzle | 3/8", 9,5 mm | 49.5 | 1 | 4.662 862 |
| Coupling PLCD13004, In-Line compression fitting | 0.17", 4,3 mm | 46.2 | 1 | 4.662 849 |
| Coupling PLCD130M8, In-Line compression fitting | 0.17", 6,0 mm | 49.5 | 1 | 4.662 853 |
| Coupling PLCD13006, In-Line compression fitting | 0.25", 6,4 mm | 49.5 | 1 | 4.662 850 |
| Coupling PLCD130M10, In-Line compression fitting | 0.25", 8,0 mm | 49.5 | 1 | 4.662 852 |
| Coupling plug PLCD24004BSPT, thread | 1/4" BSPT | 42.2 | 1 | 4.662 879 |
| Coupling plug PLCD24006BSPT, thread | 3/8" BSPT | 41.4 | 1 | 4.662 880 |
| Coupling plug PLCD42004, tubing nozzle | 1/4", 6,4 mm | 52.1 | 1 | 4.662 885 |
| Coupling plug PLCD42005, tubing nozzle | 5/16", 7,9 mm | 52.1 | 1 | 4.662 887 |
| Coupling plug PLCD42006, tubing nozzle | 3/8", 9,5 mm | 52.1 | 1 | 4.662 888 |
| Coupling plug PLCD22004, tubing nozzle | 1/4", 6,4 mm | 50.5 | 1 | 4.662 869 |
| Coupling plug PLCD22005, tubing nozzle | 5/16", 7,9 mm | 50.5 | 1 | 4.662 871 |
| Coupling plug PLCD22006, tubing nozzle | 3/8", 9,5 mm | 46.0 | 1 | 4.662 872 |
| Coupling plug PLCD23004, tubing nozzle | 1/4", 6,4 mm | 32.5 | 1 | 4.662 874 |
| Coupling plug PLCD23006, tubing nozzle | 3/8", 9,5 mm | 32.5 | 1 | 4.662 876 |
| Coupling plug PLCD20004, In-Line compression fitting | 0.17", 4,3 mm | 47.8 | 1 | 4.662 864 |
| Coupling plug PLCD200M8, In-Line compression fitting | 0.17", 6,0 mm | 46.2 | 1 | 4.662 868 |
| Coupling plug PLCD20006, In-Line compression fitting | 0.25", 6,4 mm | 46.2 | 1 | 4.662 865 |
| Coupling plug PLCD200M10, In-Line compression fitting | 0.25", 8,0 mm | 46.2 | 1 | 4.662 867 |
| Coupling plug PLCD40004, panel mounting compression fitting | 0.17", 4,3 mm | 48.5 | 1 | 4.662 881 |
| Coupling plug PLCD400M8, panel mounting compression fitting | 0.17", 6,0 mm | 51.6 | 1 | 4.662 884 |
| Coupling plug PLCD40006, panel mounting compression fitting | 0.25", 6,4 mm | 52.1 | 1 | 4.662 882 |
| Coupling plug PLCD400M10, panel mounting compression fitting | 0.25", 8,0 mm | 52.1 | 1 | 4.662 883 |

General Purpose Couplings with valve, Sixtube™-Series, Acetal

The coupling elements provide a quick lock for up to six independent connections for liquid media. Stop valves can be used in the coupling, but not in the plug. With the unlocking button, six lines can be disconnected at once by pressing with the thumb. The coupling is designed for various applications, such as packaging systems, pneumatic regulators, filling of air chambers, semiconductor production, water softeners and measuring equipment. Main components, stop valve (natural white) and unlocking button (turquoise green) made of acetal, springs made of stainless steel 316. Material O-rings: Buna-N.

Colder Products Company

- Unlocking button for one-handed operation
- Integrated connections for short installation lengths and fast installation for up to six connections
- With stop valve

Specifications

Operating pressure: 6.9 bar, 100 psi
 Operating temperature: -40 ... 82 °C

3



4.662 934

4



4.662 936

| Type | Connection diam. inside | Overall length mm | PK | Cat. No. |
|--|-------------------------|-------------------|----|-----------|
| with coupling inserts, with stop valve | 1/16", 1,6 mm | 47.8 | 1 | 4.662 933 |
| with coupling inserts, with stop valve | 1/8", 3,2 mm | 47.8 | 1 | 4.662 934 |
| with plug inserts, without stop valve | 1/16", 1,6 mm | 27.9 | 1 | 4.662 935 |
| with plug inserts, without stop valve | 1/8", 3,2 mm | 27.9 | 1 | 4.662 936 |