

## J 1-1 PVC FLEX HOSE

**Applications:**

- for powdery solids such as dust, powder and fibre
- for gaseous media such as vapor and smoke
- for air conditioning and ventilation technology

**Construction:**

- spring steel wire integrated in wall

**Material:**

- wall: high-grade soft PVC
- spiral: spring steel wire

**Standard Color:**

- grey and transparent

**Properties:**

- good resistance to alkalis and acids
- good resistance to chemicals
- capable of electrostatic discharge by grounding the spiral
- compressible 3:1
- flame-retardant according to UL94-HB

**Temperature Range:**

- -10 °C approx. to +70 °C approx.
- short time to +80 °C approx.

**Specification:**

- ø 38 to ø 254 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 38      | 46      | 0.500            | 0.180      | 46                | 0.26        | 15              | 1-1-038-000 |
| 51      | 59      | 0.400            | 0.150      | 59                | 0.30        | 15              | 1-1-051-000 |
| 60      | 69      | 0.350            | 0.120      | 60                | 0.32        | 15              | 1-1-060-000 |
| 63      | 72      | 0.300            | 0.100      | 72                | 0.33        | 15              | 1-1-063-000 |
| 76      | 85      | 0.270            | 0.080      | 85                | 0.40        | 15              | 1-1-076-000 |
| 80      | 89      | 0.250            | 0.070      | 89                | 0.45        | 15              | 1-1-080-000 |
| 90      | 99      | 0.230            | 0.060      | 99                | 0.48        | 15              | 1-1-090-000 |
| 102     | 110     | 0.200            | 0.050      | 110               | 0.57        | 15              | 1-1-102-000 |
| 120     | 129     | 0.170            | 0.040      | 129               | 0.73        | 15              | 1-1-120-000 |
| 127     | 135     | 0.160            | 0.030      | 135               | 0.77        | 15              | 1-1-127-000 |
| 140     | 149     | 0.150            | 0.030      | 149               | 0.84        | 15              | 1-1-140-000 |
| 152     | 160     | 0.140            | 0.030      | 160               | 0.90        | 15              | 1-1-152-000 |
| 160     | 169     | 0.130            | 0.030      | 169               | 0.97        | 15              | 1-1-160-000 |
| 178     | 187     | 0.120            | 0.030      | 187               | 1.15        | 15              | 1-1-178-000 |
| 203     | 213     | 0.100            | 0.025      | 213               | 1.30        | 15              | 1-1-203-000 |
| 230     | 239     | 0.090            | 0.020      | 239               | 1.60        | 15              | 1-1-230-000 |
| 254     | 263     | 0.080            | 0.010      | 263               | 2.00        | 15              | 1-1-254-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 1-2 PU L FLEX HOSE

**Applications:**

- for abrasive solids such as dust, powder, fibre and chip
- for industrial air movement and fume control
- for extraction arms and dust collection equipment
- for CNC machine

**Construction:**

- spring steel wire integrated in wall
- wall thickness 0.4 mm approx.

**Material:**

- wall: ester-polyurethane
- spiral: spring steel wire

**Standard Color:**

- transparent

**Properties:**

- good resistance to chemical, and ozone
- small bending radius
- gas and liquid tight
- abrasion-proof
- excellent compressible 3:1
- capable of electrostatic discharge by grounding the spiral
- good tensile

**Temperature Range:**

- -40 °C approx. to +90 °C approx.
- short time to +125 °C approx.

**Specification:**

- ø 51 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 51      | 59      | 0.700            | 0.240      | 59                | 0.27        | 15              | 1-2-051-000 |
| 60      | 68      | 0.560            | 0.210      | 68                | 0.31        | 15              | 1-2-060-000 |
| 63      | 71      | 0.550            | 0.180      | 71                | 0.34        | 15              | 1-2-063-000 |
| 76      | 84      | 0.470            | 0.130      | 84                | 0.44        | 15              | 1-2-076-000 |
| 80      | 88      | 0.430            | 0.120      | 88                | 0.47        | 15              | 1-2-080-000 |
| 90      | 98      | 0.390            | 0.100      | 98                | 0.49        | 15              | 1-2-090-000 |
| 102     | 110     | 0.350            | 0.080      | 110               | 0.52        | 15              | 1-2-102-000 |
| 110     | 118     | 0.310            | 0.080      | 118               | 0.57        | 15              | 1-2-110-000 |
| 114     | 122     | 0.300            | 0.070      | 122               | 0.59        | 15              | 1-2-114-000 |
| 120     | 128     | 0.290            | 0.070      | 128               | 0.62        | 15              | 1-2-120-000 |
| 127     | 135     | 0.280            | 0.060      | 135               | 0.64        | 15              | 1-2-127-000 |
| 140     | 148     | 0.250            | 0.050      | 148               | 0.72        | 15              | 1-2-140-000 |
| 152     | 160     | 0.170            | 0.050      | 160               | 0.76        | 15              | 1-2-152-000 |
| 160     | 168     | 0.160            | 0.040      | 168               | 0.81        | 15              | 1-2-160-000 |
| 180     | 188     | 0.140            | 0.040      | 188               | 0.90        | 15              | 1-2-180-000 |
| 203     | 211     | 0.130            | 0.030      | 211               | 1.10        | 15              | 1-2-203-000 |
| 254     | 262     | 0.100            | 0.015      | 262               | 1.30        | 10              | 1-2-254-000 |
| 305     | 313     | 0.090            | 0.010      | 313               | 1.70        | 10              | 1-2-305-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 1-3 PU M FLEX HOSE

**Applications:**

- for abrasive solids such as dust, powder, fibre and chip
- for industrial air movement and fume control
- for extraction arms and dust collection equipment
- for CNC machine

**Construction:**

- spring steel wire integrated in wall
- wall thickness 0.6 mm approx.

**Material:**

- wall: ester-polyurethane
- spiral: spring steel wire

**Standard Color:**

- transparent

**Properties:**

- good resistance to chemicals
- small bending radius
- gas and liquid tight
- abrasion-proof
- compressible 3:1
- capable of electrostatic discharge by grounding the spiral
- flame-retardant according to UL94-HB

**Temperature Range:**

- -40 °C approx. to +90 °C approx.
- short time to +125 °C approx.

**Specification:**

- ø 25 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 25      | 32      | 1.600            | 0.360      | 32                | 0.17        | 15              | 1-3-025-000 |
| 32      | 39      | 1.260            | 0.340      | 39                | 0.20        | 15              | 1-3-032-000 |
| 38      | 46      | 1.170            | 0.390      | 46                | 0.23        | 15              | 1-3-038-000 |
| 51      | 59      | 0.910            | 0.312      | 59                | 0.32        | 15              | 1-3-051-000 |
| 60      | 68      | 0.728            | 0.273      | 68                | 0.39        | 15              | 1-3-060-000 |
| 63      | 71      | 0.715            | 0.234      | 71                | 0.40        | 15              | 1-3-063-000 |
| 76      | 84      | 0.611            | 0.169      | 84                | 0.53        | 15              | 1-3-076-000 |
| 80      | 88      | 0.559            | 0.156      | 88                | 0.56        | 15              | 1-3-080-000 |
| 90      | 98      | 0.507            | 0.130      | 98                | 0.59        | 15              | 1-3-090-000 |
| 102     | 110     | 0.455            | 0.104      | 110               | 0.62        | 15              | 1-3-102-000 |
| 114     | 122     | 0.390            | 0.091      | 122               | 0.70        | 15              | 1-3-114-000 |
| 120     | 128     | 0.377            | 0.091      | 128               | 0.74        | 15              | 1-3-120-000 |
| 127     | 135     | 0.364            | 0.078      | 135               | 0.77        | 15              | 1-3-127-000 |
| 140     | 148     | 0.325            | 0.065      | 148               | 0.86        | 15              | 1-3-140-000 |
| 152     | 160     | 0.221            | 0.065      | 160               | 0.91        | 15              | 1-3-152-000 |
| 160     | 168     | 0.208            | 0.052      | 168               | 0.97        | 15              | 1-3-160-000 |
| 180     | 188     | 0.182            | 0.052      | 188               | 1.07        | 15              | 1-3-180-000 |
| 203     | 211     | 0.169            | 0.039      | 211               | 1.32        | 15              | 1-3-203-000 |
| 254     | 262     | 0.130            | 0.020      | 262               | 1.56        | 10              | 1-3-254-000 |
| 305     | 313     | 0.117            | 0.013      | 313               | 2.04        | 10              | 1-3-305-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 1-10 PE FLEX HOSE

**Applications:**

- Suction and blast hose, especially suitable: for the food, pharmacy and chemical industry
- for vacuum cleaners
- for aggressive solids such as dust, powder and fibres
- for aggressive gaseous media such as vapors and smoke
- for de-dusting and suction plants

**Material:**

- wall: special polyethylene(PE)
- spiral: spring steel wire

**Properties:**

- anti-stick
- highly flexible and compressible
- good resistance to mineral oils, alkalis, and acids
- extremely good resistance to chemicals
- small bending radius
- food quality complied with FDA
- capable of electro-static discharge

**Temperature Range:**

- -35°C approx. to +80°C approx.

**Specification:**

- ø 51 to ø 160 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Stock Lengths m | Order No.    |
|---------|---------|------------------|------------|-------------------|-----------------|--------------|
| 51      | 59      | 0.369            | 0.240      | 58                | 10              | 1-10-051-000 |
| 60      | 68      | 0.305            | 0.190      | 68                | 10              | 1-10-060-000 |
| 63      | 71      | 0.285            | 0.170      | 73                | 10              | 1-10-063-000 |
| 76      | 84      | 0.250            | 0.130      | 83                | 10              | 1-10-076-000 |
| 90      | 98      | 0.200            | 0.100      | 98                | 10              | 1-10-090-000 |
| 102     | 110     | 0.185            | 0.080      | 108               | 10              | 1-10-102-000 |
| 110     | 118     | 0.170            | 0.075      | 118               | 10              | 1-10-110-000 |
| 115     | 123     | 0.160            | 0.070      | 123               | 10              | 1-10-115-000 |
| 120     | 128     | 0.155            | 0.070      | 128               | 10              | 1-10-120-000 |
| 127     | 135     | 0.150            | 0.055      | 133               | 10              | 1-10-127-000 |
| 140     | 148     | 0.135            | 0.050      | 148               | 10              | 1-10-140-000 |
| 152     | 160     | 0.125            | 0.050      | 158               | 10              | 1-10-152-000 |
| 160     | 168     | 0.115            | 0.045      | 168               | 10              | 1-10-160-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request  
MOQ: 200M

## J 1-4 PVC FABRIC AIR HOSE

**Applications:**

- for welding gas extraction
- air conditioning and ventilation of fumes, light duty dust extraction, and air movement

**Construction:**

- spring steel wire integrated in wall
- fabric-reinforced wall
- wall thickness 0.35 mm approx.

**Material:**

- wall: PVC coated fabric
- spiral: spring steel wire

**Standard Color:**

- grey and blue

**Properties:**

- highly flexible and compressible 6:1
- fabric reinforced
- good resistance to alkalis and acids
- good resistance to chemicals, UV and ozone
- capable of electrostatic discharge by grounding the spiral
- flame-retardant according to UL94-V2

**Temperature Range:**

- -10 °C approx. to +80 °C approx.
- short time to +100 °C approx.

**Specification:**

- ø 38 to ø 406 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 38      | 48      | 0.280            | 0.170      | 48                | 0.17        | 10              | 1-4-038-000 |
| 51      | 60      | 0.240            | 0.150      | 60                | 0.18        | 10              | 1-4-051-000 |
| 63      | 72      | 0.200            | 0.120      | 72                | 0.20        | 10              | 1-4-063-000 |
| 76      | 85      | 0.160            | 0.080      | 85                | 0.23        | 10              | 1-4-076-000 |
| 80      | 89      | 0.150            | 0.070      | 89                | 0.25        | 10              | 1-4-080-000 |
| 90      | 99      | 0.140            | 0.060      | 99                | 0.29        | 10              | 1-4-090-000 |
| 102     | 111     | 0.120            | 0.050      | 111               | 0.32        | 10              | 1-4-102-000 |
| 114     | 123     | 0.110            | 0.045      | 123               | 0.38        | 10              | 1-4-114-000 |
| 127     | 136     | 0.100            | 0.035      | 136               | 0.42        | 10              | 1-4-127-000 |
| 140     | 149     | 0.090            | 0.033      | 149               | 0.45        | 10              | 1-4-140-000 |
| 152     | 161     | 0.080            | 0.032      | 161               | 0.55        | 10              | 1-4-152-000 |
| 160     | 169     | 0.075            | 0.025      | 169               | 0.65        | 10              | 1-4-160-000 |
| 178     | 187     | 0.070            | 0.020      | 187               | 0.75        | 10              | 1-4-178-000 |
| 203     | 212     | 0.060            | 0.020      | 212               | 0.86        | 10              | 1-4-203-000 |
| 254     | 263     | 0.050            | 0.010      | 263               | 1.20        | 10              | 1-4-254-000 |
| 305     | 314     | 0.040            | 0.006      | 314               | 1.30        | 10              | 1-4-305-000 |
| 355     | 364     | 0.035            | 0.006      | 364               | 1.70        | 10              | 1-4-355-000 |
| 406     | 415     | 0.030            | 0.006      | 415               | 2.20        | 10              | 1-4-406-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 1-8 ALUMINUM FOIL AIR HOSE 2PLY

**Applications:**

- exhaust air ventilation

**Construction:**

- two ply aluminum foil clamped into spring steel wire

**Material:**

- wall: aluminum foil
- spiral: spring steel wire

**Standard Color:**

- silver

**Properties:**

- axially compressible
- small bending radius
- very good low temperature flexibility
- kink-proof

**Temperature Range:**

- -20 °C approx. to + 100 °C approx.

**Specification:**

- ø 50 to ø 300 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-----------------|-------------|
| 50      | 57      | 0.24             | 0.015      | 10              | 1-8-050-000 |
| 63      | 70      | 0.20             | 0.013      | 10              | 1-8-063-000 |
| 76      | 83      | 0.16             | 0.013      | 10              | 1-8-076-000 |
| 100     | 107     | 0.12             | 0.012      | 10              | 1-8-100-000 |
| 125     | 132     | 0.10             | 0.010      | 10              | 1-8-125-000 |
| 150     | 157     | 0.08             | 0.007      | 10              | 1-8-150-000 |
| 200     | 207     | 0.06             | 0.006      | 10              | 1-8-200-000 |
| 250     | 258     | 0.05             | 0.024      | 10              | 1-8-250-000 |
| 275     | 283     | 0.04             | 0.024      | 10              | 1-8-275-000 |
| 300     | 308     | 0.04             | 0.024      | 10              | 1-8-300-000 |

Delivery Variants: customer-specific product marking, diameters and lengths available on request

## J 1-5 PP AIR HOSE

**Applications:**

- ventilation for various kinds of equipment
- spring steel wire integrated in wall
- heavily corrugated and capable of axial compression into fixed position

**Material:**

- wall: PP
- spiral: spring steel wire

**Standard Color:**

- ivory and black

**Properties:**

- good resistance to alkalis and acids
- good resistance to chemicals
- good resistance to UV and ozone

**Temperature Range:**

- -20 °C approx. to +80 °C approx.

**Specification:**

- ø 25 to ø 254 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 25      | 32      | 0.700            | 0.250      | 35                | 0.10        | 5               | 1-5-025-000 |
| 32      | 38      | 0.650            | 0.220      | 42                | 0.13        | 5               | 1-5-032-000 |
| 38      | 46      | 0.580            | 0.190      | 50                | 0.15        | 5               | 1-5-038-000 |
| 51      | 59      | 0.430            | 0.160      | 64                | 0.19        | 5               | 1-5-051-000 |
| 63      | 73      | 0.350            | 0.120      | 80                | 0.24        | 5               | 1-5-063-000 |
| 76      | 85      | 0.300            | 0.100      | 93                | 0.30        | 5               | 1-5-076-000 |
| 90      | 100     | 0.250            | 0.070      | 110               | 0.36        | 5               | 1-5-090-000 |
| 102     | 112     | 0.230            | 0.060      | 120               | 0.40        | 5               | 1-5-102-000 |
| 127     | 137     | 0.180            | 0.040      | 148               | 0.52        | 5               | 1-5-127-000 |
| 152     | 162     | 0.160            | 0.036      | 176               | 0.80        | 5               | 1-5-152-000 |
| 203     | 213     | 0.120            | 0.028      | 230               | 1.10        | 5               | 1-5-203-000 |
| 254     | 264     | 0.090            | 0.011      | 286               | 1.56        | 5               | 1-5-254-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 5-1 TPE FLEX HOSE

**Applications:**

- for powdery solids such as dust, powder and fibre
- for gaseous media such as vapor and smoke
- for steam extraction
- as conductor of hot and cold air
- for blowers and compressors

**Construction:**

- spiral: spring steel wire integrated in wall

**Material:**

- wall: thermo-plastic rubber (TPE)
- spiral: spring steel wire

**Standard Color:**

- black

**Properties:**

- excellent price to performance ratio ( patented process, low cost and robust to transport, minimal storage space )

- good resistance to alkalis, acids and chemicals
- small bending radius

- capable of electrostatic discharge by grounding the spiral

**Temperature Range:**

- -40 °C approx. to +100 °C approx.
- short time to +125 °C approx.

**Specification:**

- ø 25 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 25      | 32      | 0.350            | 0.170      | 32                | 0.12        | 15              | 5-1-025-000 |
| 32      | 39      | 0.300            | 0.160      | 39                | 0.14        | 15              | 5-1-032-000 |
| 38      | 45      | 0.300            | 0.160      | 45                | 0.16        | 15              | 5-1-038-000 |
| 51      | 59      | 0.270            | 0.130      | 59                | 0.23        | 15              | 5-1-051-000 |
| 60      | 68      | 0.230            | 0.110      | 68                | 0.27        | 15              | 5-1-060-000 |
| 63      | 71      | 0.210            | 0.090      | 71                | 0.28        | 15              | 5-1-063-000 |
| 76      | 84      | 0.180            | 0.070      | 84                | 0.33        | 15              | 5-1-076-000 |
| 80      | 88      | 0.170            | 0.065      | 88                | 0.36        | 15              | 5-1-080-000 |
| 90      | 98      | 0.150            | 0.055      | 98                | 0.44        | 15              | 5-1-090-000 |
| 102     | 110     | 0.140            | 0.045      | 108               | 0.55        | 15              | 5-1-102-000 |
| 114     | 122     | 0.115            | 0.040      | 122               | 0.58        | 15              | 5-1-114-000 |
| 120     | 128     | 0.110            | 0.040      | 128               | 0.61        | 15              | 5-1-120-000 |
| 127     | 135     | 0.105            | 0.030      | 133               | 0.66        | 15              | 5-1-127-000 |
| 140     | 148     | 0.095            | 0.030      | 148               | 0.73        | 15              | 5-1-140-000 |
| 152     | 160     | 0.090            | 0.030      | 160               | 0.79        | 15              | 5-1-152-000 |
| 160     | 168     | 0.085            | 0.025      | 168               | 0.83        | 15              | 5-1-160-000 |
| 178     | 186     | 0.075            | 0.020      | 186               | 0.94        | 15              | 5-1-178-000 |
| 203     | 211     | 0.060            | 0.020      | 211               | 1.10        | 15              | 5-1-203-000 |
| 254     | 262     | 0.040            | 0.015      | 262               | 1.30        | 10              | 5-1-254-000 |
| 305     | 313     | 0.010            | 0.010      | 313               | 1.80        | 10              | 5-1-305-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

### J 3-3 PVC RIGID BEND DUCTING HOSE



#### Applications:

- for air, fume extraction and liquid supply under low pressure
- for conveyance of powder, granules and dust extraction
- for wood dust extraction
- portable air conditioner venting hose

#### Construction:

- interlocking rigid PVC profile by rigid PVC

#### Material:

- rigid PVC

#### Standard Color:

- grey and black



#### Properties:

- self-supporting
- simple increase or reduction of size
- jointing of lengths
- good resistance to acids, alkalis, and chemicals
- maintain shape
- flame-retardant according to UL94-HB

#### Temperature Range:

- -10 °C approx. to +60 °C approx.

#### Specification:

- ø 51 to ø 200 mm

| I.D. mm | O.D. mm | Stock Lengths m | Order No.   |
|---------|---------|-----------------|-------------|
| 51      | 57      | 5               | 3-3-051-000 |
| 65      | 71      | 5               | 3-3-065-000 |
| 75      | 82      | 5               | 3-3-075-000 |
| 90      | 97      | 5               | 3-3-090-000 |
| 100     | 107     | 5               | 3-3-100-000 |
| 125     | 133     | 5               | 3-3-125-000 |
| 150     | 158     | 5               | 3-3-150-000 |
| 200     | 208     | 5               | 3-3-200-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

### J 3-2 EVA HOSE



#### Applications:

- for domestic and industrial vacuum cleaners
- for cleaning of swimming pools

#### Construction:

- self-supporting profile construction
- open profile geometry

#### Material:

- wall: EVA

#### Standard Color:

- black



#### Properties:

- good resistance to alkalis and acids
- good resistance to UV and ozone
- gas and liquid tight
- crush-proof

#### Temperature Range:

- -45 °C approx. to +65 °C approx.

#### Specification:

- ø 25 to ø 50 mm

| I.D. mm | O.D. mm | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------|-------------------|-------------|-----------------|-------------|
| 25      | 32      | 0.500      | 66                | 0.15        | 20              | 3-2-025-000 |
| 32      | 39.5    | 0.500      | 82                | 0.24        | 20              | 3-2-032-000 |
| 38      | 47      | 0.500      | 93                | 0.31        | 20              | 3-2-038-000 |
| 50      | 60.8    | 0.500      | 121               | 0.44        | 20              | 3-2-050-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

### J 1-9 PVC FIBRE GLASS HOSE



#### Applications:

- for welding fume, gas, vapor and dust
- for explosive environment

#### Construction:

- spring steel wire integrated in wall
- fibre glass reinforced wall
- wall thickness 0.35 mm approx.

#### Material:

- wall: PVC + fibre glass
- spiral: spring steel wire

#### Standard color:

- dark grey



#### Properties:

- highly flexible and compressible 4:1
- good resistance of flame and heat
- good resistance to alkalis and acids
- good resistance to chemicals
- good resistance to UV and ozone
- capable of electrostatic discharge by grounding the spiral
- flame-retardant according to UL94-V0

#### Temperature Range:

- -20 °C approx. to +100 °C approx.
- short time to +120 °C approx.

#### Specification:

- ø 51 to ø 406 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 51      | 60      | 0.240            | 0.150      | 60                | 0.18        | 6               | 1-9-051-000 |
| 63      | 72      | 0.200            | 0.120      | 72                | 0.20        | 6               | 1-9-063-000 |
| 76      | 85      | 0.160            | 0.080      | 85                | 0.23        | 6               | 1-9-076-000 |
| 80      | 89      | 0.150            | 0.070      | 89                | 0.25        | 6               | 1-9-080-000 |
| 90      | 99      | 0.140            | 0.060      | 99                | 0.29        | 6               | 1-9-090-000 |
| 102     | 111     | 0.120            | 0.050      | 111               | 0.32        | 6               | 1-9-102-000 |
| 114     | 123     | 0.110            | 0.045      | 123               | 0.38        | 6               | 1-9-114-000 |
| 127     | 136     | 0.100            | 0.035      | 136               | 0.42        | 6               | 1-9-127-000 |
| 140     | 149     | 0.090            | 0.033      | 149               | 0.45        | 6               | 1-9-140-000 |
| 152     | 161     | 0.080            | 0.032      | 161               | 0.55        | 6               | 1-9-152-000 |
| 160     | 169     | 0.075            | 0.025      | 169               | 0.65        | 6               | 1-9-160-000 |
| 178     | 187     | 0.070            | 0.020      | 187               | 0.75        | 6               | 1-9-178-000 |
| 203     | 212     | 0.060            | 0.020      | 212               | 0.86        | 6               | 1-9-203-000 |
| 254     | 263     | 0.050            | 0.010      | 263               | 1.20        | 6               | 1-9-254-000 |
| 305     | 314     | 0.040            | 0.006      | 314               | 1.30        | 6               | 1-9-305-000 |
| 355     | 364     | 0.035            | 0.006      | 364               | 1.70        | 6               | 1-9-355-000 |
| 406     | 415     | 0.030            | 0.006      | 415               | 2.70        | 6               | 1-9-406-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

### J 3-6 PVC FLEX SUPERELASTIC HOSE



#### Applications:

- Suction and blast hose, especially suitable:
- for solids such as dust, powder and fibre
- for gaseous and liquid media
- for domestic and industrial vacuum cleaners, building drying and welding gas extraction

#### Construction:

- wall: soft PVC with fibre reinforcement
- spiral: plastic coated spring steel wire

#### Material:

- PVC coated fibre
- spring steel wire

#### Standard color:

- black



#### Properties:

- good resistance to alkalis and acids
- good resistance to UV and ozone
- small bending radius
- capable of electrostatic discharge (according to BGR 132, formerly ZH 1/200) by grounding the spiral

#### Temperature Range:

- 0 °C approx. to + 85 °C approx.

#### Specification:

- ø 32 to ø 102 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.     |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|---------------|
| 32      | 38      | 1.500            | 0.200      | 32                | 0.28        | 15              | 3-6-032-000   |
| 38      | 44      | 1.400            | 0.200      | 38                | 0.34        | 15              | 3-6-038-000   |
| 41      | 47      | 1.400            | 0.180      | 41                | 0.37        | 15              | 3-6-041-000   |
| 44      | 50      | 1.300            | 0.160      | 44                | 0.38        | 15              | 3-6-044-000   |
| 51      | 57      | 1.300            | 0.150      | 51                | 0.46        | 15              | 3-6-051-000   |
| 63      | 69      | 1.000            | 0.140      | 62                | 0.53        | 15              | 3-6-063-000   |
| 76      | 82      | 0.800            | 0.100      | 76                | 0.68        | 10              | 3-6-076-000   |
| 80      | 86      | 0.700            | 0.090      | 80                | 0.83        | 10              | 3-6-080-000 ★ |
| 89      | 95      | 0.700            | 0.090      | 89                | 0.93        | 10              | 3-6-089-000 ★ |
| 102     | 108     | 0.600            | 0.080      | 102               | 1.00        | 10              | 3-6-102-000 ★ |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

★ MOQ: 600M



### J2-1 PU HOSE



**Applications:**

- for abrasive solids such as dust, powder, fibre, chip and granules
- for gaseous and liquid media
- for de-dusting and suction plant, industrial vacuum cleaners, suction of paper and textile fibre as resistant protection hose

**Construction:**

- hard plastic spiral integrated in wall

**Material:**

- wall: Ether-polyurethane
- spiral: hard PVC

**Standard Color:**

- transparent



**Properties:**

- light model
- abrasion-proof
- smooth interior
- good flexibility and durability
- good resistance to alkalis, acids and chemicals
- good resistance to UV and ozone
- small bending radius
- gas and liquid tight
- flame-retardant according to UL94-HB

**Temperature Range:**

- -20 °C approx. to +70 °C approx.
- short time to +80 °C approx.

**Specification:**

- ø 25 to ø 152 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 25      | 31      | 1.000            | 0.250      | 31                | 0.15        | 20              | 2-1-025-000 |
| 32      | 38      | 0.850            | 0.200      | 38                | 0.19        | 20              | 2-1-032-000 |
| 38      | 44      | 0.750            | 0.200      | 50                | 0.24        | 20              | 2-1-038-000 |
| 40      | 46      | 0.750            | 0.200      | 60                | 0.26        | 20              | 2-1-040-000 |
| 45      | 51      | 0.650            | 0.200      | 65                | 0.30        | 20              | 2-1-045-000 |
| 51      | 58      | 0.500            | 0.200      | 70                | 0.35        | 20              | 2-1-051-000 |
| 60      | 68      | 0.500            | 0.160      | 80                | 0.49        | 20              | 2-1-060-000 |
| 63      | 71      | 0.450            | 0.160      | 80                | 0.54        | 20              | 2-1-063-000 |
| 76      | 84      | 0.400            | 0.160      | 100               | 0.64        | 20              | 2-1-076-000 |
| 80      | 89      | 0.350            | 0.140      | 110               | 0.68        | 20              | 2-1-080-000 |
| 90      | 99      | 0.300            | 0.140      | 125               | 0.79        | 20              | 2-1-090-000 |
| 102     | 112     | 0.280            | 0.140      | 150               | 0.87        | 20              | 2-1-102-000 |
| 127     | 138     | 0.250            | 0.110      | 170               | 1.26        | 20              | 2-1-127-000 |
| 152     | 164     | 0.180            | 0.090      | 200               | 1.61        | 20              | 2-1-152-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request



### J8-2 PU M MHF FLEX HOSE J 8-1 PU L MHF FLEX HOSE 0.4 mm approx.



**Applications:**

- suitable for moist workplace
- for abrasive solids such as dust, powder, fibre and chip
- for extraction arms and dust collection equipments
- for CNC machine

**Construction:**

- spring steel wire integrated in wall
- wall thickness 0.6 mm approx.

**Material:**

- wall: ether-polyurethane
- spiral: spring steel wire

**Standard Color:**

- transparent

**Properties:**

- microbe and hydrolysis resistant
- food quality complied with FDA
- efficient flow characteristics
- maximum flexibility and abrasion resistance
- good resistance to UV and ozone
- small bending radius
- gas and liquid tight
- excellent compressibility 3:1
- capable of electrostatic discharge by grounding the spiral

**Temperature Range:**

- -40 °C approx. to +90 °C approx.
- short time to +125 °C approx.

**Specification:**

- ø 25 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 25      | 32      | 1.300            | 0.340      | 32                | 0.17        | 20              | 8-2-025-000 |
| 32      | 39      | 1.100            | 0.320      | 39                | 0.20        | 20              | 8-2-032-000 |
| 38      | 46      | 0.900            | 0.300      | 46                | 0.23        | 20              | 8-2-038-000 |
| 51      | 59      | 0.700            | 0.240      | 59                | 0.32        | 15              | 8-2-051-000 |
| 60      | 68      | 0.650            | 0.210      | 68                | 0.39        | 15              | 8-2-060-000 |
| 63      | 71      | 0.550            | 0.180      | 71                | 0.40        | 15              | 8-2-063-000 |
| 76      | 84      | 0.470            | 0.130      | 84                | 0.53        | 15              | 8-2-076-000 |
| 80      | 88      | 0.430            | 0.120      | 88                | 0.56        | 15              | 8-2-080-000 |
| 90      | 98      | 0.390            | 0.100      | 98                | 0.59        | 15              | 8-2-090-000 |
| 102     | 110     | 0.350            | 0.080      | 110               | 0.62        | 15              | 8-2-102-000 |
| 114     | 122     | 0.300            | 0.070      | 122               | 0.70        | 15              | 8-2-114-000 |
| 120     | 128     | 0.290            | 0.070      | 128               | 0.74        | 15              | 8-2-120-000 |
| 127     | 135     | 0.280            | 0.060      | 135               | 0.77        | 15              | 8-2-127-000 |
| 140     | 148     | 0.250            | 0.050      | 148               | 0.86        | 15              | 8-2-140-000 |
| 152     | 160     | 0.170            | 0.050      | 160               | 0.91        | 15              | 8-2-152-000 |
| 160     | 168     | 0.160            | 0.040      | 168               | 0.97        | 15              | 8-2-160-000 |
| 178     | 186     | 0.140            | 0.040      | 186               | 1.07        | 15              | 8-2-178-000 |
| 203     | 211     | 0.130            | 0.030      | 211               | 1.32        | 15              | 8-2-203-000 |
| 254     | 262     | 0.100            | 0.015      | 262               | 1.56        | 10              | 8-2-254-000 |
| 305     | 313     | 0.090            | 0.010      | 313               | 2.04        | 10              | 8-2-305-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## FOOD AND PHARMACEUTICAL INDUSTRY



## J 2-7 PU L SUCTION HOSE

**Applications:**

- for abrasive solids such as dust, powder, fibre, chip, and granules
- for de-dusting and suction plant, industrial vacuum cleaners, suction of paper and textile fibre

**Construction:**

- spring steel wire integrated in wall
- wall thickness 0.9mm approx.

**Material:**

- wall: special premium ether-polyurethane

**Spiral:** spring steel wire**Standard Color:**

- transparent

**Properties:**

- highly abrasion-proof
- smooth interior
- high tensile strength and tear resistant
- microbe and hydrolysis resistant
- good resistance to chemicals
- good resistance to UV and ozone
- small bending radius
- gas and liquid tight
- capable of electrostatic discharge by grounding the spiral
- electrical and surface resistance  $\leq 10^{10} \Omega$

**Temperature Range:**

- -40°C approx. to +90°C approx.
- short time to +125°C approx.

**Specification:**

- $\emptyset$  32 to  $\emptyset$  254 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------|-----------------|-------------|
| 32      | 39      | 2.120            | 0.460      | 0.28        | 15              | 2-7-032-000 |
| 38      | 45      | 1.795            | 0.430      | 0.32        | 15              | 2-7-038-000 |
| 51      | 58      | 1.370            | 0.365      | 0.41        | 15              | 2-7-051-000 |
| 60      | 67      | 1.150            | 0.285      | 0.49        | 15              | 2-7-060-000 |
| 63      | 70      | 1.050            | 0.205      | 0.52        | 15              | 2-7-063-000 |
| 76      | 84      | 0.920            | 0.195      | 0.63        | 15              | 2-7-076-000 |
| 90      | 98      | 0.770            | 0.155      | 0.75        | 15              | 2-7-090-000 |
| 102     | 110     | 0.685            | 0.115      | 0.97        | 15              | 2-7-102-000 |
| 114     | 122     | 0.605            | 0.105      | 1.11        | 15              | 2-7-114-000 |
| 120     | 128     | 0.580            | 0.105      | 1.16        | 15              | 2-7-120-000 |
| 127     | 135     | 0.560            | 0.085      | 1.22        | 15              | 2-7-127-000 |
| 140     | 148     | 0.495            | 0.085      | 1.34        | 15              | 2-7-140-000 |
| 152     | 160     | 0.460            | 0.075      | 1.52        | 15              | 2-7-152-000 |
| 178     | 186     | 0.385            | 0.055      | 1.81        | 15              | 2-7-178-000 |
| 203     | 211     | 0.350            | 0.050      | 2.00        | 15              | 2-7-203-000 |
| 254     | 262     | 0.280            | 0.020      | 2.39        | 10              | 2-7-254-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 4-4 SILICONE FOOD HOSE

**Applications:**

- ideal for product transfer in pharmaceutical, cosmetic, biotech and food industry
- suitable for cleaning and disinfecting

**Construction:**

- stainless steel spiral integrated in wall
- wall thickness 3.5 mm approx

**Material:**

- wall: silicone + fibre
- spiral: stainless steel wire

**Standard Color:**

- transparent exterior; white interior

**Properties:**

- robust
- smooth interior and corrugated exterior
- food grade
- good flow characteristics
- food quality complied with FDA

**Temperature Range:**

- -40°C approx. to +200°C approx.
- short time to +280 °C approx.

**Specification:**

- $\emptyset$  38 to  $\emptyset$  152 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-----------------|-------------|
| 38      | 46      | 4.300            | 1.107      | 4               | 4-4-038-000 |
| 40      | 48      | 4.300            | 1.100      | 4               | 4-4-040-000 |
| 45      | 63      | 4.100            | 0.900      | 4               | 4-4-045-000 |
| 51      | 59      | 4.000            | 0.811      | 4               | 4-4-051-000 |
| 63      | 71      | 3.700            | 0.717      | 4               | 4-4-063-000 |
| 76      | 84      | 3.400            | 0.700      | 4               | 4-4-076-000 |
| 80      | 88      | 3.300            | 0.670      | 4               | 4-4-080-000 |
| 83      | 91      | 3.300            | 0.670      | 4               | 4-4-083-000 |
| 89      | 97      | 3.200            | 0.650      | 4               | 4-4-089-000 |
| 102     | 110     | 3.100            | 0.620      | 4               | 4-4-102-000 |
| 114     | 122     | 2.700            | 0.570      | 4               | 4-4-114-000 |
| 120     | 128     | 2.900            | 0.546      | 4               | 4-4-120-000 |
| 127     | 135     | 2.900            | 0.400      | 4               | 4-4-127-000 |
| 152     | 160     | 2.800            | 0.358      | 4               | 4-4-152-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 2-4 PVC HOSE

**Applications:**

- widely applicable to discharge and suction of fluid, gas, oil, and dust in agricultural pump, oil warehouse, petrochemical equipment, engineering, mine and food industry

**Construction:**

- spring steel wire spiral embedded in wall
- wall: smooth interior and exterior

**Material:**

- wall: soft PVC
- spiral: spring steel wire

**Standard Color:**

- transparent

**Properties:**

- high visibility of the fluid conveyance and easy in control of flow rate
- very high pressure, vacuum and compression resistance
- good resistant to UV, ozone and chemical
- crystal clear and smooth
- flame-retardant according to UL94-HB
- food quality complied with FDA

**Temperature Range:**

- -20 °C approx. to +70 °C approx.
- short time to +80 °C approx.

**Specification:**

- $\emptyset$  9 to  $\emptyset$  63 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 9       | 15      | 7.000            | 0.850      | 17                | 0.15        | 100             | 2-4-009-000 |
| 12      | 18      | 6.000            | 0.850      | 23                | 0.18        | 100             | 2-4-012-000 |
| 15      | 23      | 6.000            | 0.850      | 30                | 0.25        | 100             | 2-4-015-000 |
| 19      | 25      | 5.000            | 0.850      | 32                | 0.32        | 100             | 2-4-019-000 |
| 25      | 32      | 5.000            | 0.850      | 42                | 0.50        | 50              | 2-4-025-000 |
| 32      | 41      | 4.000            | 0.850      | 64                | 0.65        | 50              | 2-4-032-000 |
| 38      | 48      | 4.000            | 0.850      | 76                | 0.80        | 40              | 2-4-038-000 |
| 45      | 55      | 4.000            | 0.800      | 89                | 1.10        | 40              | 2-4-045-000 |
| 51      | 61      | 4.000            | 0.800      | 100               | 1.24        | 40              | 2-4-051-000 |
| 60      | 72      | 3.600            | 0.800      | 170               | 1.70        | 20              | 2-4-060-000 |
| 63      | 75      | 3.600            | 0.800      | 170               | 1.80        | 20              | 2-4-063-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 3-5 PE FOOD HOSE

**Applications:**

- suction and transport hose for food and pharmaceutical industries
- for chemical industry
- available for water, acetic acid, soy sauce, oil, ethanol (20%), etc.
- for gaseous and liquid media
- for solids such as dust, powder, fibre, chip and granules
- for vacuum cleaners, conveying systems, blowers and compressors

**Construction:**

- wall: special polyethylene (PE)
- wall thickness 0.8 mm approx.
- spiral: hard plastic

**Properties:**

- smooth interior
- food grade wall
- optimized flow properties
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- odorless and tasteless
- food quality complied with FDA
- Testing as per Commission Regulation

**Temperature Range:**

- -20 °C approx. to +60 °C approx.

**Specification:**

- $\emptyset$  32 to  $\emptyset$  76 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 32      | 39      | 0.600            | 0.200      | 32                | 0.27        | 20              | 3-5-032-000 |
| 38      | 45      | 0.600            | 0.200      | 38                | 0.30        | 20              | 3-5-038-000 |
| 51      | 58      | 0.500            | 0.200      | 51                | 0.43        | 20              | 3-5-051-000 |
| 63      | 70      | 0.400            | 0.160      | 63                | 0.54        | 20              | 3-5-063-000 |
| 76      | 85      | 0.400            | 0.160      | 76                | 0.58        | 20              | 3-5-076-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 7-1 PVC BRAIDED HOSE



### Applications:

- pressure hose, for compressed air
- for gaseous and liquid media
- for conveying gas and liquid in food and pharmaceutical industry

### Construction:

- fabric reinforced wall
- smooth interior and exterior wall

### Material:

- wall: soft PVC



### Properties:

- cadmium free
- food quality complied with FDA
- good resistance to alkalis, acids, UV, ozone and chemicals
- small bending radius
- gas and liquid tight

### Temperature Range:

- -10 °C approx. to +60 °C approx.

### Specification:

- ø 6 to ø 38 mm

| I.D. mm | O.D. mm | Working Pressure kgf/cm <sup>2</sup> | Stock Lengths m | Order No.   |
|---------|---------|--------------------------------------|-----------------|-------------|
| 8       | 13.5    | 10                                   | 100             | 7-1-002-000 |
| 9       | 15      | 10                                   | 100             | 7-1-003-000 |
| 12      | 18      | 8                                    | 100             | 7-1-004-000 |
| 15      | 22      | 8                                    | 100             | 7-1-005-000 |
| 19      | 26      | 6                                    | 50              | 7-1-006-000 |
| 25      | 33      | 6                                    | 50              | 7-1-007-000 |
| 32      | 40      | 5                                    | 50              | 7-1-008-000 |
| 38      | 47      | 5                                    | 50              | 7-1-009-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 7-10 SILICONE BRAIDED HOSE



### Applications:

- pharmaceuticals
- food & beverages
- biotechnology
- cosmetics
- conveys liquids under pressure at high or low operating temperatures
- pneumatic application in sterile area

### Construction:

- fabric reinforced wall
- smooth interior and exterior wall

### Material:

- silicone

### Standard Color:

- transparent



### Properties:

- good stability
- anti-adhesive
- stress resistance
- high working pressure under high temperature
- good resistance to mineral oil, chemicals, UV and ozone
- odorless and tasteless
- food quality complied with FDA

### Temperature Range:

- -40 °C approx. to +200 °C approx.

### Specification:

- ø 5 to ø 25 mm

| I.D. mm    | O.D. mm | Working Pressure kgf/cm <sup>2</sup> | Stock Lengths m | Order No.    |
|------------|---------|--------------------------------------|-----------------|--------------|
| 5          | 12      | 7                                    | 50              | 7-10-001-000 |
| 6.5        | 13.5    | 7                                    | 50              | 7-10-002-000 |
| 8          | 15      | 7                                    | 50              | 7-10-003-000 |
| 9.5        | 16.6    | 7                                    | 50              | 7-10-004-000 |
| 12.7(1/2") | 20      | 6                                    | 50              | 7-10-005-000 |
| 16         | 24      | 6                                    | 50              | 7-10-006-000 |
| 19         | 27      | 6                                    | 25              | 7-10-007-000 |
| 25         | 33      | 5                                    | 30              | 7-10-009-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request



## ABRASION RESISTANT SUCTION HOSES

3



## Pressure Resistant Central Feeding System Machinery And Equipment Construction Vehicles



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## J 2-5 PVC GRIT HOSE

**Applications:**

- shipyards and ships
- suction and discharge for sand, grains, gravel, cement and iron
- transfer of various powder and granules

**Construction:**

- wall: soft compound abrasion PVC + rubber
- spiral: hard PVC

**Material:**

- soft compound abrasion PVC and rigid PVC helix

**Properties:**

- highly abrasion-proof
- pressure resistant
- very robust
- flame-retardant according to UL94-HB

**Temperature Range:**

- -10 °C approx. to +60 °C approx.

**Specification:**

- ø 38 to ø 152 mm

| I.D. mm | O.D. mm | Overpressure bar | Stock Lengths m | Order No.   |
|---------|---------|------------------|-----------------|-------------|
| 38      | 52      | 1.5              | 20              | 2-5-038-000 |
| 51      | 62      | 1.2              | 20              | 2-5-051-000 |
| 63      | 75      | 1.2              | 20              | 2-5-063-000 |
| 76      | 89      | 1.2              | 20              | 2-5-076-000 |
| 102     | 118     | 1.2              | 20              | 2-5-102-000 |
| 127     | 144     | 1.2              | 20              | 2-5-127-000 |
| 152     | 173     | 1.2              | 20              | 2-5-152-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J2-3 PU HOSE WITH ELECTRIC WIRE

**Applications:**

- for suction and transportation for abrasive solids such as dust, powder, fibers, chip and granulates
- for gaseous and liquid media
- for industrial vacuum cleaner, suction of paper and printing machines, blowers and compressors as robust protection hose

**Construction:**

- spring steel wire integrated in wall

**Material:**

- wall: special premium ether-polyurethane
- spiral: hard PVC

**Properties:**

- light model
- smooth interior
- abrasion proof
- good resistance to alkalis, acids, chemicals, uv and ozone
- capable of electrostatic discharge by grounding the spiral

**Temperature Range:**

- -20 °C approx. to +60 °C approx.

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 38      | 45      | 0.750            | 0.200      | 31                | 0.200       | 20              | 2-3-038-000 |
| 40      | 47      | 0.750            | 0.200      | 40                | 0.210       | 20              | 2-3-040-000 |
| 51      | 58      | 0.500            | 0.200      | 45                | 0.290       | 20              | 2-3-051-000 |
| 60      | 68      | 0.500            | 0.200      | 50                | 0.430       | 20              | 2-3-060-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 2-2 PU SUCTION HOSE-CU

**Applications:**

- for central feeding and vacuum industrial deducting in the plastics industry
- for suction and transportation for abrasive solids, such as wood chip, granules, oil and fuel
- for gaseous and liquid media
- for industrial vacuum cleaners, granulate conveying systems, printing machines, blowers and compressors as robust protection hose

**Construction:**

- spring steel wire integrated in wall
- Wall thickness 3.2mm approx.

**Material:**

- wall: interior PU, exterior soft PVC
- spiral: rigid PVC

**Properties:**

- heavy model
- smooth interior
- increase pressure and vacuum resistance
- high axial strength
- good resistance to chemicals
- capable of electrostatic discharge by grounding the spiral

**Temperature Range:**

- -20 °C approx. to +70 °C approx.
- short time to +80 °C approx.

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 38      | 46      | 5.000            | 0.700      | 182               | 0.59        | 30              | 2-2-038-000 |
| 40      | 48      | 5.000            | 0.700      | 195               | 0.62        | 30              | 2-2-040-000 |
| 51      | 60      | 5.000            | 0.700      | 235               | 0.88        | 30              | 2-2-051-000 |
| 60      | 69      | 5.000            | 0.700      | 275               | 1.13        | 30              | 2-2-060-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J2-13 SUPERFLEX GRIT HOSE

**Applications:**

- construction vehicle
- waste management
- agriculture: suction and transport of liquids

**Material:**

- wall: compound material (PVC + rubber)
- spiral: Hard PVC

**Standard Color:**

- black with grey spiral

**Properties:**

- smooth interior
- high flexibility at extreme low temperatures
- highly abrasion-proof
- pressure resistant
- very robust
- easy dragging on the ground

**Temperature Range:**

- -40 °C approx. to +50 °C approx.

**Specification:**

- ø 51 to ø 102 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths M | Order No.    |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|--------------|
| 51      | 60      | 3.3              | 7          | 160               | 0.97        | 20              | 2-13-051-000 |
| 63      | 74      | 3                | 7          | 210               | 1.38        | 20              | 2-13-063-000 |
| 76      | 88      | 3                | 7          | 250               | 1.67        | 20              | 2-13-076-000 |
| 102     | 116     | 2.2              | 6          | 335               | 2.77        | 20              | 2-13-102-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 3-1 PVC HOSE

**Applications:**

- indoor ventilation, air conditioning
- suction of metal sludge from metal processing machines
- air suction in dust collectors, factories, mines etc.
- transportation of powder, gas, liquid and granules
- dust suction for furniture and wood processing

**Construction:**

- wall made by soft PVC and spiral made by hard PVC helix

**Material:**

- wall: soft PVC
- spiral: hard PVC

**Standard Color:**

- grey

**Properties:**

- outer surface is corrugated, inner surface is smooth
- good resistance to chemicals
- flame-retardant according to UL94-HB

**Temperature Range:**

- -10 °C approx. to +60 °C approx.

**Specification:**

- ø 32 to ø 152 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 32      | 39      | 0.600            | 0.200      | 32                | 0.27        | 20              | 3-1-032-000 |
| 38      | 45      | 0.600            | 0.200      | 38                | 0.30        | 20              | 3-1-038-000 |
| 51      | 59      | 0.500            | 0.200      | 51                | 0.43        | 20              | 3-1-051-000 |
| 63      | 71      | 0.400            | 0.160      | 63                | 0.54        | 20              | 3-1-063-000 |
| 76      | 84      | 0.400            | 0.160      | 76                | 0.58        | 20              | 3-1-076-000 |
| 102     | 111     | 0.300            | 0.140      | 102               | 0.88        | 20              | 3-1-102-000 |
| 127     | 137     | 0.200            | 0.110      | 127               | 1.10        | 20              | 3-1-127-000 |
| 152     | 166     | 0.200            | 0.090      | 152               | 1.70        | 20              | 3-1-152-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 2-6 PVC BRAIDED SUCTION HOSE

**Applications:**

- for conveying water and solids such as dust, powder, fibre and granules
- for high pressure engineering vehicles

**Construction:**

- wall: PVC + yarn
- spiral: hard PVC

**Properties:**

- smooth interior, fabric reinforced, and can afford high pressure
- food quality complied with FDA

**Temperature Range:**

- -10 °C approx. to +60 °C approx.

**Specification:**

- ø 25 to ø 203 mm

| I.D. mm | O.D. mm | Pressure (MPa)    |                   | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|-------------------|-------------------|-------------|-----------------|-------------|
|         |         | Positive Pressure | Negative Pressure |             |                 |             |
| 25      | 34      | 0.50              | 0.10              | 0.38        | 20              | 2-6-025-000 |
| 32      | 42      | 0.50              | 0.10              | 0.46        | 20              | 2-6-032-000 |
| 38      | 49      | 0.50              | 0.10              | 0.58        | 20              | 2-6-038-000 |
| 51      | 65      | 0.50              | 0.10              | 0.95        | 20              | 2-6-051-000 |
| 64      | 80      | 0.50              | 0.10              | 1.40        | 20              | 2-6-064-000 |
| 76      | 93      | 0.50              | 0.10              | 1.80        | 20              | 2-6-076-000 |
| 101     | 119     | 0.50              | 0.10              | 2.45        | 20              | 2-6-101-000 |
| 126     | 152     | 0.50              | 0.10              | 4.10        | 20              | 2-6-126-000 |
| 152     | 184     | 0.50              | 0.10              | 5.80        | 20              | 2-6-152-000 |
| 203     | 238     | 0.35              | 0.10              | 8.60        | 20              | 2-6-203-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 2-8 PU H SUCTION HOSE

**Applications:**

- for high flow-rates of hot and abrasive solids such as powder, chip and granules
- for industrial vacuum cleaners, granule conveying systems, printing machines, blowers and compressors
- as robust protection hose

**Construction:**

- spring steel wire integrated in wall
- wall thickness 1.5mm approx.

**Material:**

- wall: special premium ester-polyurethane
- spiral: spring steel wire

**Standard Color:**

- transparent

**Properties:**

- highly abrasion-proof
- smooth interior
- increased pressure and vacuum resistance
- high tensile strength and tear resistant
- good resistance to chemicals
- small bending radius
- gas and liquid tight
- capable of electrostatic discharge by grounding the spiral
- electrical and surface resistance  $\leq 10^{10} \Omega$

**Temperature Range:**

- -40°C approx. to +90°C approx.
- short time to +125°C approx.

**Specification:**

- ø 32 to ø 203 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Stock Lengths m | Weight kg/m | Order No.   |
|---------|---------|------------------|------------|-----------------|-------------|-------------|
| 32      | 40      | 3.095            | 0.875      | 15              | 0.44        | 2-8-032-000 |
| 38      | 46      | 2.925            | 0.865      | 15              | 0.52        | 2-8-038-000 |
| 51      | 59      | 2.330            | 0.835      | 15              | 0.66        | 2-8-051-000 |
| 60      | 68      | 1.955            | 0.730      | 15              | 0.78        | 2-8-060-000 |
| 63      | 71      | 1.815            | 0.675      | 15              | 0.84        | 2-8-063-000 |
| 76      | 85      | 1.575            | 0.555      | 15              | 1.05        | 2-8-076-000 |
| 90      | 99      | 1.300            | 0.425      | 15              | 1.25        | 2-8-090-000 |
| 102     | 111     | 1.190            | 0.355      | 15              | 1.49        | 2-8-102-000 |
| 114     | 123     | 1.090            | 0.335      | 15              | 1.68        | 2-8-114-000 |
| 120     | 129     | 1.050            | 0.315      | 15              | 1.77        | 2-8-120-000 |
| 127     | 136     | 0.960            | 0.265      | 15              | 1.84        | 2-8-127-000 |
| 140     | 149     | 0.900            | 0.240      | 15              | 2.03        | 2-8-140-000 |
| 152     | 161     | 0.800            | 0.180      | 15              | 2.41        | 2-8-152-000 |
| 178     | 187     | 0.705            | 0.150      | 15              | 2.87        | 2-8-178-000 |
| 203     | 212     | 0.600            | 0.120      | 15              | 3.12        | 2-8-203-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J20-10 PVC S-AGRO SUCTION HOSE

**Applications:**

- for conveyance of powders, slurry and water in agriculture
- for conveying water in high pressure
- for seeder, slurry, irrigation for farmland
- for engineering vehicles and pumps

**Construction:**

- Wall thickness: 3.5mm
- wall: soft PVC
- spiral: hard PVC

**Properties:**

- high visibility of the fluid conveyance and easy in control of flow rate
- smooth interior
- abrasion resistance

**Temperature Range:**

- -10 °C ~+60 °C

| I.D. mm | O.D. mm | Pressure (MPa)    |                   | Bending Radius mm | KG/ M | Stock Lengths m | Order No.     |
|---------|---------|-------------------|-------------------|-------------------|-------|-----------------|---------------|
|         |         | Positive pressure | Negative pressure |                   |       |                 |               |
| 25      | 31      | 0.40              | -0.10             | 150               | 0.30  | 20              | 20-10-025-000 |
| 32      | 37      | 0.35              | -0.10             | 210               | 0.39  | 20              | 20-10-032-000 |
| 38      | 44      | 0.30              | -0.10             | 270               | 0.48  | 20              | 20-10-038-000 |
| 51      | 58      | 0.30              | -0.10             | 360               | 0.80  | 20              | 20-10-051-000 |
| 63      | 72      | 0.30              | -0.10             | 500               | 1.16  | 20              | 20-10-063-000 |
| 76      | 86      | 0.30              | -0.10             | 600               | 1.66  | 20              | 20-10-076-000 |
| 102     | 112     | 0.25              | -0.10             | 900               | 2.36  | 20              | 20-10-102-000 |

### J 3-7 PU L SWEEPER HOSE

#### J 3-8 PU M SWEEPER HOSE 1.5 mm approx.



#### Applications:

- for sweeper machine, sweeper

#### Construction:

- wall thickness 1mm approx.

#### Material:

- wall: polyurethane
- spiral: spring steel wire

#### Properties:

- flexible and compressible
- highly abrasion resistance
- exterior folds
- good resistance to oil, gasoline and chemical

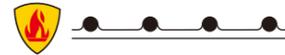
#### Temperature Range:

- -40°C approx. to +90°C approx.

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-----------------|-------------|
| 150     | 159     | 0.46             | 0.07       | 100               | 10              | 3-7-150-000 |
| 178     | 189     | 0.38             | 0.05       | 118               | 10              | 3-7-178-000 |
| 203     | 211     | 0.35             | 0.05       | 130               | 10              | 3-7-203-000 |
| 254     | 263     | 0.28             | 0.02       | 160               | 10              | 3-7-254-000 |

Delivery Variants: customer-specific product marking, diameters and lengths available on request

### J 2-12 PVC SUCTION HOSE



#### Applications:

- for plastic industry
- for abrasive solids such as dust, powder, fibre, chip and granules
- for gaseous and liquid media
- for de-dusting and suction plant, industrial vacuum cleaners, suction of paper and textile fibre as resistant protection hose

#### Material:

- wall: PVC
- spiral: hard PVC

#### Standard Color:

- transparent

#### Properties:

- abrasion-proof
- smooth interior
- increased pressure and vacuum resistance
- high tensile strength and tear resistant
- good resistance to chemicals
- gas and liquid tight
- flame-retardant, anti-adhesive

#### Temperature Range:

- -10°C approx. to +60°C approx.
- short time to +80°C approx

#### Specification:

- ø 32 to ø 150 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Stock Lengths m | Order No.    |
|---------|---------|------------------|------------|-------------------|-----------------|--------------|
| 32      | 40      | 2.000            | 1.000      | 120               | 20              | 2-12-032-001 |
| 38      | 47      | 2.000            | 1.000      | 140               | 20              | 2-12-038-001 |
| 51      | 61      | 2.000            | 1.000      | 180               | 20              | 2-12-051-001 |
| 63      | 73      | 2.000            | 1.000      | 225               | 20              | 2-12-063-001 |
| 76      | 90      | 2.000            | 1.000      | 265               | 20              | 2-12-076-001 |
| 90      | 105     | 2.000            | 0.700      | 315               | 20              | 2-12-090-001 |
| 102     | 120     | 2.000            | 0.700      | 350               | 20              | 2-12-102-001 |
| 127     | 154     | 2.000            | 0.700      | 445               | 20              | 2-12-127-001 |
| 152     | 182     | 2.000            | 0.700      | 540               | 20              | 2-12-152-001 |

Delivery Variants: customer-specific product marking, diameters and lengths available on request



## ANTISTATIC AND ELECTRICALLY CONDUCTIVE HOSES

Electronics  
Chemical Industry  
Explosion Proof  
Organic Gases

### J 9-7 EVA EL HOSE



**Applications:**

- for domestic and industrial vacuum cleaners
- for cleaning of swimming pools

**Construction:**

- self-supporting profile construction
- open profile geometry

**Material:**

- wall: EVA EL

**Standard Color:**

- black



**Properties:**

- good resistance to alkalis and acids
- good resistance to UV and ozone
- gas and liquid tight
- crush-proof
- static conductive model is available on request
- electrical and surface resistance  $\leq 10^6 \Omega$

**Temperature Range:**

- -45 °C approx. to +65 °C approx.

**Specification:**

- $\varnothing$  25 to  $\varnothing$  50 mm

| I.D. mm | O.D. mm | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------|-------------------|-------------|-----------------|-------------|
| 25      | 32      | 0.500      | 66                | 0.15        | 15              | 9-7-025-000 |
| 32      | 39.5    | 0.500      | 82                | 0.24        | 15              | 9-7-032-000 |
| 38      | 47      | 0.500      | 93                | 0.31        | 15              | 9-7-038-000 |
| 50      | 60.8    | 0.500      | 121               | 0.44        | 15              | 9-7-050-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

### J 9-6 EPDM EL HOSE



**Applications:**

- for area easy to burst mixtures such as dust, powder, fibre, chip and particles
- for gas and liquid environments, vacuum cleaners, conveying systems and compressors
- for the electronics, chemical and other industries
- metal grinding machines for dust collection.

**Material:**

- Wall: EPDM+PP
- spiral: PP



**Properties:**

- conductive rubber material can be antistatic
- good resistance to sparking
- good resistance to alkalis and acids
- highly abrasion-proof
- smooth interior
- flame-retardant according to UL94-V2
- electrical and surface resistance  $\leq 10^6 \Omega$

**Temperature Range:**

- -30° C approx. to +80° C approx.

**Specification:**

- $\varnothing$  25 to  $\varnothing$  102 mm

| I.D. mm | O.D. mm | Pressure (MPa)    |                   | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|-------------------|-------------------|-------------|-----------------|-------------|
|         |         | Positive Pressure | Negative Pressure |             |                 |             |
| 25      | 33      | 0.15              | 0.07              | 0.30        | 20              | 9-6-025-000 |
| 32      | 39      | 0.10              | 0.07              | 0.32        | 20              | 9-6-032-000 |
| 38      | 47      | 0.08              | 0.07              | 0.43        | 20              | 9-6-038-000 |
| 51      | 60      | 0.08              | 0.06              | 0.52        | 20              | 9-6-051-000 |
| 64      | 71      | 0.07              | 0.05              | 0.71        | 20              | 9-6-064-000 |
| 76      | 86      | 0.06              | 0.04              | 0.83        | 20              | 9-6-076-000 |
| 90      | 100     | 0.05              | 0.03              | 0.99        | 20              | 9-6-090-000 |
| 102     | 112     | 0.05              | 0.02              | 1.13        | 20              | 9-6-102-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

### J 9-1 PVC AS FLEX HOSE



**Applications:**

- for transporting inflammable bulk materials and in areas liable to contain explosive mixtures (explosion protection)
- for powdery solids such as dust, powder and fibre
- for gaseous media such as vapor and smoke
- for air conditioning and ventilation technology

**Construction:**

- spring steel wire integrated in wall

**Material:**

- wall: antistatic PVC
- spiral: zinc-coated spring steel wire

**Standard Color:**

- beige:transparent



**Properties:**

- optimized flow properties
- good resistance to alkalis and acids
- good resistance to chemicals
- capable of electrostatic discharge by grounding the spiral
- compressible 3:1
- flame-retardant according to UL94-HB
- electrical and surface resistance  $\leq 10^9 \Omega$

**Temperature Range:**

- -10 °C approx. to +70 °C approx.
- short time to +80 °C approx.

**Specification:**

- $\varnothing$  38 to  $\varnothing$  203 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 38      | 46      | 0.500            | 0.180      | 46                | 0.26        | 15              | 9-1-038-000 |
| 51      | 59      | 0.400            | 0.150      | 59                | 0.30        | 15              | 9-1-051-000 |
| 63      | 71      | 0.300            | 0.100      | 71                | 0.33        | 15              | 9-1-063-000 |
| 76      | 84      | 0.270            | 0.080      | 84                | 0.40        | 15              | 9-1-076-000 |
| 102     | 110     | 0.200            | 0.050      | 110               | 0.57        | 15              | 9-1-102-000 |
| 127     | 135     | 0.160            | 0.030      | 135               | 0.77        | 15              | 9-1-127-000 |
| 152     | 160     | 0.140            | 0.030      | 160               | 0.90        | 15              | 9-1-152-000 |
| 178     | 186     | 0.120            | 0.030      | 186               | 1.15        | 15              | 9-1-178-000 |
| 203     | 211     | 0.100            | 0.025      | 211               | 1.30        | 15              | 9-1-203-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

### J 9-5 TPV EL AIR HOSE



**Applications:**

- suction and blast hose, especially suitable: in areas liable to contain explosive mixtures (explosion protection)
- for welding gas extraction
- for air conditioning and ventilation of fumes, light duty dust extraction and air movement

**Construction:**

- spring steel wire integrated in wall
- fabric-reinforced wall
- wall thickness 0.5mm approx.

**Material:**

- wall: TPV EL coated fabric
- spiral: spring steel wire



**Standard color:**

- black

**Properties:**

- excellent compressibility 4:1
- good resistance to alkalis, acids, chemicals, UV and ozone
- flame-retardant according to UL94-HB
- electrical and surface resistance  $\leq 10^6 \Omega$

**Temperature Range:**

- -20 °C approx. to +150 °C approx.

**Specification:**

- $\varnothing$  51 to  $\varnothing$  406 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-----------------|-------------|
| 51      | 61      | 0.240            | 0.145      | 10              | 9-5-051-000 |
| 63      | 73      | 0.195            | 0.115      | 10              | 9-5-063-000 |
| 76      | 86      | 0.160            | 0.080      | 10              | 9-5-076-000 |
| 102     | 112     | 0.120            | 0.050      | 10              | 9-5-102-000 |
| 127     | 137     | 0.100            | 0.035      | 10              | 9-5-127-000 |
| 152     | 162     | 0.080            | 0.035      | 10              | 9-5-152-000 |
| 178     | 188     | 0.070            | 0.020      | 10              | 9-5-178-000 |
| 203     | 213     | 0.060            | 0.020      | 10              | 9-5-203-000 |
| 254     | 264     | 0.050            | 0.010      | 10              | 9-5-254-000 |
| 305     | 315     | 0.040            | 0.005      | 10              | 9-5-305-000 |
| 356     | 366     | 0.035            | 0.005      | 10              | 9-5-356-000 |
| 406     | 416     | 0.030            | 0.003      | 10              | 9-5-406-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

**J 9-8 PE EL HOSE New Developed Soft Material**    



**Applications:**

- Suction and blast hose, especially suitable:
- in areas liable to contain explosive mixtures (explosion protection)
- for aggressive solids such as dust, powder, fibres and aggressive gaseous media such as vapors and smoke
- for de-dusting, suction plants and chemical industry

**Material:**

- wall: newly improved softer EL PE material
- spiral: spring steel wire

**Properties:**

- electrical and surface resistance  $\leq 10^8 \Omega$
- anti-stick
- highly flexible and compressible
- good resistance to mineral oils, alkalis, and acids
- extremely good resistance to chemicals
- capable of electro-static discharge

**Temperature Range:**

- -35°C approx. to +80°C approx.

**Specification:**

- $\phi$  51 to  $\phi$  160 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-----------------|-------------|
| 51      | 59      | 0.369            | 0.240      | 59                | 10              | 9-8-051-000 |
| 60      | 68      | 0.305            | 0.190      | 68                | 10              | 9-8-060-000 |
| 63      | 71      | 0.285            | 0.170      | 73                | 10              | 9-8-063-000 |
| 76      | 84      | 0.250            | 0.130      | 83                | 10              | 9-8-076-000 |
| 90      | 98      | 0.200            | 0.100      | 98                | 10              | 9-8-090-000 |
| 102     | 110     | 0.185            | 0.080      | 108               | 10              | 9-8-102-000 |
| 110     | 118     | 0.170            | 0.075      | 118               | 10              | 9-8-110-000 |
| 115     | 123     | 0.160            | 0.070      | 123               | 10              | 9-8-115-000 |
| 120     | 128     | 0.155            | 0.070      | 128               | 10              | 9-8-120-000 |
| 127     | 135     | 0.150            | 0.055      | 133               | 10              | 9-8-127-000 |
| 140     | 148     | 0.135            | 0.050      | 148               | 10              | 9-8-140-000 |
| 152     | 160     | 0.125            | 0.050      | 158               | 10              | 9-8-152-000 |
| 160     | 168     | 0.115            | 0.045      | 168               | 10              | 9-8-160-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

**J2-12 PVC AS SUCTION HOSE**    



**Applications:**

- for plastic industry
- for abrasive solids such as dust, powder, fibre, chip and granules
- for gaseous and liquid media
- for de-dusting and suction plant, industrial vacuum cleaners, suction of paper and textile fibre as resistant protection hose

**Material:**

- wall: antistatic PVC
- spiral: antistatic hard PVC

**Properties:**

- abrasion-proof
- smooth interior
- increased pressure and vacuum resistance
- high tensile strength and tear resistant
- good resistance to chemicals
- gas and liquid tight
- flame-retardant, anti-adhesive
- electrical and surface resistance  $\leq 10^8 \Omega$

**Temperature Range:**

- -10°C approx. to +60°C approx.
- short time to +80°C approx

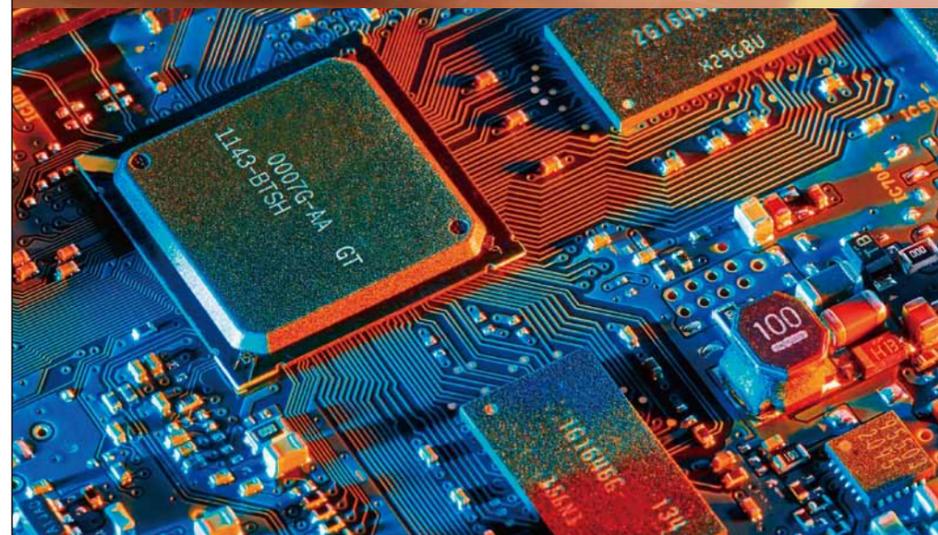
| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Stock Lengths m | Order No.    |
|---------|---------|------------------|------------|-------------------|-----------------|--------------|
| 32      | 40      | 2.000            | 1.000      | 120               | 20              | 2-12-032-000 |
| 38      | 47      | 2.000            | 1.000      | 140               | 20              | 2-12-038-000 |
| 51      | 61      | 2.000            | 1.000      | 180               | 20              | 2-12-051-000 |
| 63      | 73      | 2.000            | 1.000      | 225               | 20              | 2-12-063-000 |
| 76      | 90      | 2.000            | 1.000      | 265               | 20              | 2-12-076-000 |
| 90      | 105     | 2.000            | 0.700      | 315               | 20              | 2-12-090-000 |
| 102     | 120     | 1.500            | 0.700      | 350               | 20              | 2-12-102-000 |
| 127     | 154     | 1.000            | 0.700      | 445               | 20              | 2-12-127-000 |
| 152     | 182     | 1.000            | 0.700      | 540               | 20              | 2-12-152-000 |

Delivery Variants: customer-specific product marking, diameters and lengths available on request



**HIGH TEMPERATURE EXHAUST EXTRACTION HOSES**

5



**High Temperature Vehicle Exhaust Extraction System**



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## J 4-1 SILICONE 2 PLY HOSE

**Applications:**

- suitable for high temperature air handling applications
- for granules dryer in the plastics industry
- for printing machines, blowers and compressors
- for exhaust gas technology, engine warming and military construction

**Construction:**

- spring steel wire integrated in wall
- fabric-reinforced tape
- spiral yarn fixing

**Material:**

- wall: silicone coated fiberglass
- spiral: spring steel wire
- thread: special yarn

**Standard Color:**

- red and black

**Properties:**

- double-layer
- very good heat resistance
- leak-proof
- smooth interior
- fabric reinforced
- small bending radius
- flame-retardant according to UL94-HB

**Temperature Range:**

- -70 °C approx. to +260 °C approx.
- short time to +280 °C approx.

**Specification:**

- ø 20 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 20      | 24      | 3.000            | 0.730      | 24                | 0.12        | 4               | 4-1-020-000 |
| 25      | 29      | 2.800            | 0.710      | 29                | 0.19        | 4               | 4-1-025-000 |
| 32      | 36      | 2.700            | 0.650      | 36                | 0.28        | 4               | 4-1-032-000 |
| 38      | 43      | 2.600            | 0.600      | 43                | 0.31        | 4/8             | 4-1-038-000 |
| 44      | 49      | 2.600            | 0.580      | 49                | 0.35        | 4/8             | 4-1-044-000 |
| 51      | 57      | 2.600            | 0.520      | 57                | 0.39        | 4/8             | 4-1-051-000 |
| 63      | 68      | 2.400            | 0.460      | 68                | 0.49        | 4/8             | 4-1-063-000 |
| 76      | 81      | 2.100            | 0.430      | 81                | 0.60        | 4/8             | 4-1-076-000 |
| 90      | 95      | 2.000            | 0.400      | 95                | 0.71        | 4/8             | 4-1-090-000 |
| 102     | 107     | 1.900            | 0.350      | 107               | 0.80        | 4/8             | 4-1-102-000 |
| 114     | 120     | 1.500            | 0.300      | 120               | 0.89        | 4/8             | 4-1-114-000 |
| 127     | 133     | 1.400            | 0.230      | 133               | 0.96        | 4/8             | 4-1-127-000 |
| 140     | 146     | 1.300            | 0.200      | 146               | 1.10        | 4/8             | 4-1-140-000 |
| 152     | 158     | 1.200            | 0.170      | 158               | 1.40        | 4/8             | 4-1-152-000 |
| 165     | 171     | 0.900            | 0.120      | 171               | 1.70        | 4               | 4-1-165-000 |
| 178     | 184     | 0.800            | 0.120      | 184               | 1.80        | 4               | 4-1-178-000 |
| 203     | 209     | 0.700            | 0.090      | 209               | 1.90        | 4               | 4-1-203-000 |
| 254     | 260     | 0.500            | 0.070      | 260               | 2.09        | 4               | 4-1-254-000 |
| 305     | 311     | 0.500            | 0.070      | 311               | 2.61        | 4               | 4-1-305-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 4-2 SILICONE HOSE

**Applications:**

- electric equipment for hot and cold air
- for granules dryers in the plastics industry
- for printing machines, blowers and compressors
- for exhaust gas technology, engine construction, engine warming and military construction

**Construction:**

- wall: silicone-coated sealed fiberglass fabric
- spiral: spring steel wire integrated in wall

**Material:**

- wall: silicone-coated sealed fiberglass fabric
- spiral: spring steel wire

**Standard Color:**

- red, OEM(grey)

**Properties:**

- double-layer
- smooth interior
- good flow characteristics
- good overpressure and vacuum tightness
- superior heat and cold resistance
- flame-retardant according to UL94-HB
- de-dusting in clean room

**Temperature Range:**

- -70 °C approx. to +260 °C approx.
- short time to +280 °C approx.

**Specification:**

- ø 25 to ø 203 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 25      | 29      | 2.800            | 0.710      | 29                | 0.19        | 6               | 4-2-025-000 |
| 32      | 36      | 2.700            | 0.650      | 36                | 0.28        | 6               | 4-2-032-000 |
| 38      | 43      | 2.600            | 0.600      | 43                | 0.31        | 6               | 4-2-038-000 |
| 44      | 49      | 2.600            | 0.580      | 49                | 0.35        | 6               | 4-2-044-000 |
| 51      | 57      | 2.600            | 0.520      | 57                | 0.39        | 6               | 4-2-051-000 |
| 63      | 68      | 2.400            | 0.460      | 68                | 0.49        | 6               | 4-2-063-000 |
| 76      | 81      | 2.100            | 0.430      | 81                | 0.60        | 6               | 4-2-076-000 |
| 90      | 95      | 2.000            | 0.400      | 95                | 0.71        | 6               | 4-2-090-000 |
| 102     | 107     | 1.900            | 0.350      | 107               | 0.80        | 6               | 4-2-102-000 |
| 114     | 120     | 1.500            | 0.300      | 120               | 0.89        | 6               | 4-2-114-000 |
| 127     | 133     | 1.400            | 0.230      | 133               | 0.96        | 6               | 4-2-127-000 |
| 140     | 146     | 1.300            | 0.200      | 146               | 1.10        | 6               | 4-2-140-000 |
| 152     | 158     | 1.200            | 0.170      | 158               | 1.40        | 6               | 4-2-152-000 |
| 165     | 171     | 0.900            | 0.120      | 171               | 1.70        | 6               | 4-2-165-000 |
| 203     | 209     | 0.700            | 0.090      | 209               | 1.90        | 6               | 4-2-203-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 4-3 RIGID SILICONE HOSE

**Applications:**

- welding fume extraction
- conveying heat granules for feeding equipment
- for food and pharmaceutical industry

**Construction:**

- wall: silicone-coated sealed fiberglass fabric
- spiral spring steel wire integrated in wall
- wall thickness 5 mm

**Material:**

- wall: silicone-coated sealed fiberglass fabric
- spiral spring steel wire integrated in wall

**Standard Color:**

- red

**Properties:**

- double-layer
- smooth interior
- good flow characteristics
- good overpressure and vacuum tightness
- superior heat and cold resistance
- flame-retardant according to UL94-V1
- de-dusting in clean room
- food quality complied with FDA

**Temperature Range:**

- -40 °C approx. to +200 °C approx.
- short time to +280 °C approx.

**Specification:**

- ø 38 to ø 152 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-----------------|-------------|
| 38      | 46      | 4.300            | 1.107      | 4               | 4-3-038-000 |
| 40      | 48      | 4.300            | 1.100      | 4               | 4-3-040-000 |
| 45      | 53      | 4.100            | 0.900      | 4               | 4-3-045-000 |
| 51      | 59      | 4.000            | 0.811      | 4               | 4-3-051-000 |
| 63      | 71      | 3.700            | 0.717      | 4               | 4-3-063-000 |
| 76      | 84      | 3.400            | 0.700      | 4               | 4-3-076-000 |
| 80      | 88      | 3.300            | 0.670      | 4               | 4-3-080-000 |
| 83      | 91      | 3.300            | 0.670      | 4               | 4-3-083-000 |
| 89      | 97      | 3.200            | 0.650      | 4               | 4-3-089-000 |
| 102     | 110     | 3.100            | 0.620      | 4               | 4-3-102-000 |
| 114     | 122     | 2.700            | 0.570      | 4               | 4-3-114-000 |
| 120     | 128     | 2.900            | 0.546      | 4               | 4-3-120-000 |
| 127     | 135     | 2.900            | 0.400      | 4               | 4-3-127-000 |
| 152     | 160     | 2.800            | 0.358      | 4               | 4-3-152-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 5-2 TPV MEMORY HOSE

**Applications:**

- special exhaust gas hose, especially suitable:
- for suction of vehicle engine exhaust gas
- for hose reel
- for slotted floor channels
- for above and below floor suction extraction

**Construction:**

- plastic profile supporting spiral
- fabric-reinforced wall
- wall thickness 0.55 mm approx.

**Material:**

- wall: TPV coated fabric
- spiral: special hollow plastic helix

**Standard color:**

- black, custom color and blue

**Properties:**

- vibration resistant
- crush-proof
- highly flexible and compressible
- fabric reinforced
- good resistance to chemicals
- small bending radius
- gas and liquid tight
- flame-retardant according to UL94-HB

**Temperature Range:**

- exhaust gas temperatures to +180 °C
- when correctly applied with exhaust gas funnels and sufficient fresh air supply 50% approx.

**Specification:**

- ø 51 to ø 203 mm

| I.D. mm | O.D. mm | Vacuum bar | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------|-------------|-----------------|-------------|
| 51      | 68      | 0.400      | 0.41        | 15              | 5-2-051-000 |
| 63      | 80      | 0.280      | 0.51        | 15              | 5-2-063-000 |
| 76      | 93      | 0.180      | 0.54        | 15              | 5-2-076-000 |
| 102     | 119     | 0.050      | 0.72        | 15              | 5-2-102-000 |
| 127     | 144     | 0.035      | 0.88        | 15              | 5-2-127-000 |
| 152     | 169     | 0.025      | 1.05        | 15              | 5-2-152-000 |
| 203     | 220     | 0.010      | 1.39        | 15              | 5-2-203-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 6-6 PTFE FABRIC CLIP HOSE

**Applications:**

- for solids such as dust, powder, fibre and chip
- for gaseous media such as vapors and smoke
- for food and pharmaceutical industry
- for chemical industry

**Construction:**

- PTFE mechanically clamped into metal band

**Material:**

- wall: PTFE coated glass fabric
- wall thickness: 0.4mm approx.
- clamp: stainless steel

**Properties:**

- light-weight
- kink-proof
- anti-adhesive
- small bending radius
- strongly clamp into the wall
- odorless and tasteless
- good resistance to high temperature
- good resistance to alkalis, acids and chemicals
- good resistance to UV and ozone
- flame-retardant complied with FM 4910

**Temperature Range:**

- -40 °C approx. to +250 °C approx.

**Specification:**

- ø 76 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-----------------|-------------|
| 76      | 88      | 0.330            | 0.180      | 93                | 3               | 6-6-076-000 |
| 102     | 114     | 0.190            | 0.100      | 119               | 3               | 6-6-102-000 |
| 127     | 139     | 0.165            | 0.070      | 144               | 3               | 6-6-127-000 |
| 152     | 164     | 0.105            | 0.040      | 169               | 3               | 6-6-152-000 |
| 203     | 215     | 0.085            | 0.025      | 220               | 3               | 6-6-203-000 |
| 254     | 266     | 0.060            | 0.020      | 271               | 3               | 6-6-254-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 6-1 ALUMINUM FOIL AIR HOSE

**Applications:**

- exhaust air ventilation
- electrical component manufacture
- PCB manufacture
- for ventilation technology, clean rooms and electrical plants

**Construction:**

- two ply aluminum foil mechanically clamped into metal band

**Material:**

- wall: 0.1 mm thick aluminum foil
- spiral: 8 mm wide galvanized steel band
- silver

**Properties:**

- axially compressible
- bending radius equals 1.25 times of diameter
- small bending radius
- de-dusting

**Temperature Range:**

- -20 °C approx. to +130 °C approx.

**Specification:**

- ø 38 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 38      | 42      | 0.350            | 0.190      | 48                | 0.30        | 5               | 6-1-038-000 |
| 51      | 55      | 0.330            | 0.170      | 60                | 0.36        | 5               | 6-1-051-000 |
| 63      | 67      | 0.290            | 0.170      | 68                | 0.47        | 5               | 6-1-063-000 |
| 76      | 80      | 0.250            | 0.150      | 80                | 0.54        | 5               | 6-1-076-000 |
| 90      | 94      | 0.200            | 0.130      | 95                | 0.57        | 5               | 6-1-090-000 |
| 102     | 106     | 0.200            | 0.130      | 105               | 0.60        | 5               | 6-1-102-000 |
| 127     | 131     | 0.180            | 0.130      | 130               | 0.74        | 5               | 6-1-127-000 |
| 152     | 156     | 0.150            | 0.090      | 155               | 0.89        | 5               | 6-1-152-000 |
| 203     | 207     | 0.100            | 0.080      | 205               | 1.10        | 5               | 6-1-203-000 |
| 254     | 258     | 0.080            | 0.030      | 255               | 1.40        | 5               | 6-1-254-000 |
| 305     | 309     | 0.050            | 0.030      | 308               | 1.70        | 5               | 6-1-305-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 6-2 ALUMINUM FOIL AND FABRIC AIR HOSE

**Applications:**

- drying equipment
- hot air suction and ventilation applications

**Construction:**

- wall: two ply aluminized fiberglass mechanically incorporating a high tensile steel helix sewn externally

**Material:**

- wall: aluminized fiberglass
- spiral: 8 mm galvanized steel band

**Standard Color:**

- white

**Properties:**

- high temperature resistance
- easy to install
- flame-retardant according to UL94-V0

**Temperature Range:**

- -20 °C approx. to +180 °C approx.

**Specification:**

- ø 51 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 51      | 56      | 0.330            | 0.170      | 61                | 0.40        | 5               | 6-2-051-000 |
| 63      | 68      | 0.290            | 0.170      | 73                | 0.51        | 5               | 6-2-063-000 |
| 76      | 81      | 0.250            | 0.150      | 86                | 0.60        | 5               | 6-2-076-000 |
| 90      | 95      | 0.200            | 0.130      | 100               | 0.64        | 5               | 6-2-090-000 |
| 102     | 107     | 0.200            | 0.130      | 112               | 0.67        | 5               | 6-2-102-000 |
| 127     | 132     | 0.180            | 0.120      | 137               | 0.84        | 5               | 6-2-127-000 |
| 152     | 157     | 0.150            | 0.090      | 162               | 1.01        | 5               | 6-2-152-000 |
| 203     | 208     | 0.100            | 0.060      | 213               | 1.30        | 5               | 6-2-203-000 |
| 254     | 259     | 0.080            | 0.030      | 264               | 1.60        | 5               | 6-2-254-000 |
| 305     | 310     | 0.050            | 0.030      | 315               | 1.90        | 5               | 6-2-305-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 6-3 SILICONE FOIL AND FABRIC AIR HOSE

**Applications:**

- air direction
- used in place, where the exhaust gas temperatures are higher, for instance in construction machinery, harvesters, granules dryers in the plastics industry or for the extraction of hot air from ovens

**Construction:**

- wall: one ply silicone coated fiberglass mechanically clamped into stainless steel band

**Material:**

- wall: silicone fiberglass
- spiral: 8mm wide stainless steel band

**Standard Color:**

- grey

**Properties:**

- very good heat resistance
- leak-proof
- fibre reinforced
- small bending radius
- flame-retardant according to UL94-V0

**Temperature Range:**

- -70 °C approx. to +300 °C approx.

**Specification:**

- ø 51 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 51      | 55      | 0.180            | 0.170      | 61                | 0.37        | 5               | 6-3-051-000 |
| 63      | 67      | 0.150            | 0.170      | 73                | 0.48        | 5               | 6-3-063-000 |
| 76      | 80      | 0.130            | 0.150      | 86                | 0.55        | 5               | 6-3-076-000 |
| 90      | 94      | 0.100            | 0.130      | 100               | 0.59        | 5               | 6-3-090-000 |
| 102     | 106     | 0.100            | 0.130      | 112               | 0.65        | 5               | 6-3-102-000 |
| 127     | 131     | 0.090            | 0.130      | 137               | 0.80        | 5               | 6-3-127-000 |
| 152     | 156     | 0.080            | 0.090      | 162               | 0.99        | 5               | 6-3-152-000 |
| 203     | 207     | 0.050            | 0.060      | 213               | 1.30        | 5               | 6-3-203-000 |
| 254     | 258     | 0.030            | 0.030      | 264               | 1.60        | 5               | 6-3-254-000 |
| 305     | 309     | 0.020            | 0.030      | 315               | 1.90        | 5               | 6-3-305-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 6-4 PTFE AIR HOSE

**Applications:**

- for solids such as dust, powder, fibre and chip
- for gaseous media such as vapors and smoke
- for food and pharmaceutical industry
- for chemical industry

**Construction:**

- PTFE mechanically clamped into metal band

**Material:**

- wall: PTFE coated fiberglass
- clamp profile: stainless steel

**Properties:**

- anti-adhesive
- small bending radius
- strongly clamp into the wall
- odorless and tasteless
- good resistance to high temperature
- good resistance to alkalis, acids and chemicals
- good resistance to UV and ozone
- flame-retardant according to UL94-V0

**Temperature Range:**

- -70°C approx. to +250°C approx.

**Specification:**

- ø 51 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 51      | 55      | 0.180            | 0.170      | 61                | 0.35        | 5               | 6-4-051-000 |
| 63      | 67      | 0.150            | 0.170      | 73                | 0.45        | 5               | 6-4-063-000 |
| 76      | 80      | 0.130            | 0.150      | 86                | 0.52        | 5               | 6-4-076-000 |
| 90      | 94      | 0.100            | 0.130      | 100               | 0.55        | 5               | 6-4-090-000 |
| 102     | 106     | 0.100            | 0.130      | 112               | 0.61        | 5               | 6-4-102-000 |
| 127     | 131     | 0.090            | 0.130      | 137               | 0.76        | 5               | 6-4-127-000 |
| 152     | 159     | 0.080            | 0.090      | 162               | 0.93        | 5               | 6-4-152-000 |
| 203     | 207     | 0.050            | 0.060      | 213               | 1.10        | 5               | 6-4-203-000 |
| 254     | 258     | 0.030            | 0.030      | 264               | 1.30        | 5               | 6-4-254-000 |
| 305     | 309     | 0.020            | 0.030      | 315               | 1.70        | 5               | 6-4-305-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 6-5 STAINLESS STEEL AIR HOSE

**Applications:**

- hot ventilation in clean room
- semiconductor manufacture and chemical plant
- electrical component manufacture

**Construction:**

- stainless steel foil mechanically clamped into stainless steel spiral

**Material:**

- wall: 0.05 mm stainless steel foil
- spiral: stainless steel band

**Properties:**

- good resistance to alkalis and acids
- bendable
- high temperature
- rigid
- long life

**Temperature Range:**

- -70°C approx. to +400°C approx.

**Specification:**

- ø 51 to ø 305 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Bending Radius mm | Weight kg/m | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-------------------|-------------|-----------------|-------------|
| 51      | 55      | 0.180            | 0.210      | 61                | 0.36        | 2               | 6-5-051-000 |
| 63      | 67      | 0.150            | 0.210      | 73                | 0.47        | 2               | 6-5-063-000 |
| 76      | 80      | 0.130            | 0.210      | 86                | 0.54        | 2               | 6-5-076-000 |
| 102     | 106     | 0.100            | 0.150      | 112               | 0.60        | 2               | 6-5-102-000 |
| 127     | 131     | 0.090            | 0.150      | 137               | 0.74        | 2               | 6-5-127-000 |
| 152     | 156     | 0.080            | 0.130      | 162               | 0.89        | 2               | 6-5-152-000 |
| 203     | 207     | 0.050            | 0.100      | 213               | 1.10        | 2               | 6-5-203-000 |
| 254     | 258     | 0.030            | 0.060      | 264               | 1.40        | 2               | 6-5-254-000 |
| 305     | 309     | 0.020            | 0.060      | 315               | 1.70        | 2               | 6-5-305-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 1-7 TPV FABRIC AIR HOSE

**Applications:**

- for welding gas extraction
- for air conditioning and ventilation technology

**Construction:**

- spring steel wire integrated in wall
- fabric-reinforced wall
- wall thickness 0.5 mm approx.

**Material:**

- wall: TPV coated fabric
- spiral: spring steel wire

**Standard Color:**

- black

**Properties:**

- compressible 4:1
- excellent resistance to alkalis, acids, chemicals, UV, and ozone
- flame-retardant according to UL94-HB

**Temperature Range:**

- -20 °C approx. to +150 °C approx.
- short time to +170 °C approx.

**Specification:**

- ø 51 to ø 406 mm

| I.D. mm | O.D. mm | Overpressure bar | Vacuum bar | Stock Lengths m | Order No.   |
|---------|---------|------------------|------------|-----------------|-------------|
| 51      | 61      | 0.240            | 0.145      | 10              | 1-7-051-000 |
| 63      | 73      | 0.195            | 0.115      | 10              | 1-7-063-000 |
| 76      | 86      | 0.160            | 0.080      | 10              | 1-7-076-000 |
| 102     | 112     | 0.120            | 0.050      | 10              | 1-7-102-000 |
| 127     | 137     | 0.100            | 0.035      | 10              | 1-7-127-000 |
| 152     | 162     | 0.080            | 0.035      | 10              | 1-7-152-000 |
| 178     | 187     | 0.070            | 0.020      | 10              | 1-7-178-000 |
| 203     | 213     | 0.060            | 0.020      | 10              | 1-7-203-000 |
| 254     | 264     | 0.050            | 0.010      | 10              | 1-7-254-000 |
| 305     | 315     | 0.040            | 0.005      | 10              | 1-7-305-000 |
| 356     | 366     | 0.035            | 0.005      | 10              | 1-7-356-000 |
| 406     | 416     | 0.030            | 0.003      | 10              | 1-7-406-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 20-6 SUS MICROBEND AIR HOSE

**Applications:**

- for high temperature environment and equipment
- temperature-resistant to 400 °C approx.
- for semiconductor, chemical, electronics, wafer processing, LCD, secondary piping in clean room
- high-winding

**Construction:**

- wall thickness: 0.05mm

**Standard Color:**

- silver

**Properties:**

- low cost
- micro-bend, easy to construct
- high temperature resistant
- clean room available

**Temperature Range:**

- -70°C~+400°C

**Specification:**

- ø 51- 203mm

| I.D. mm | O.D. mm | Stock Lengths m | Order No.    |
|---------|---------|-----------------|--------------|
| 51      | 55      | 4               | 20-6-051-000 |
| 76      | 80      | 4               | 20-6-076-000 |
| 102     | 106     | 4               | 20-6-102-000 |
| 127     | 131     | 4               | 20-6-127-000 |
| 152     | 156     | 4               | 20-6-152-000 |
| 203     | 208     | 4               | 20-6-203-000 |

Delivery Variants: customer-specific product marking, diameters and lengths available on request



6 INDUSTRIAL TUBES

Industrial Tubes  
Pneumatic Tools  
Pressure Spraying

J 7-2 PU BRAIDED TUBE



**Applications:**

- pressure hose
- for compressed air
- for pneumatic tools
- for gaseous and liquid media

**Construction:**

- fabric reinforced wall
- smooth interior and exterior wall

**Material:**

- ester-polyurethane

**Standard Color:**

- blue

**Properties:**

- high tensile strength and tear resistant
- hydrolysis resistant
- small bending radius
- gas and liquid tight
- crush-proof
- very robust

**Temperature Range:**

- -40 °C approx. to +90 °C approx.

**Specification:**

- ø 4 to ø 12 mm

| I.D. mm | O.D. mm | Working Pressure kgf/cm <sup>2</sup> | Stock Lengths m | Order No.   | Color  |
|---------|---------|--------------------------------------|-----------------|-------------|--------|
| 4       | 6       | 15                                   | 100             | 7-2-001-000 | blue   |
| 5       | 8       | 15                                   | 100             | 7-2-002-000 | blue   |
| 6.5     | 10      | 15                                   | 100             | 7-2-003-000 | orange |
| 8       | 12      | 15                                   | 100             | 7-2-004-000 | blue   |
| 12      | 16      | 15                                   | 100             | 7-2-006-000 | orange |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

J 7-3 PU TUBE



**Applications:**

- pressure hose
- for compressed air
- for pneumatic tools
- for gaseous and liquid media

**Construction:**

- smooth interior and exterior wall

**Material:**

- ether-polyurethane

**Standard Color:**

- blue, black, orange and transparent



**Properties:**

- high tensile strength and tear resistant
- hydrolysis resistant
- small bending radius
- gas and liquid tight
- crush-proof
- very robust

**Temperature Range:**

- -40 °C approx. to +90 °C approx.

**Specification:**

- ø 2.5 to ø 8 mm

| I.D. mm | O.D. mm | Working Pressure kgf/cm <sup>2</sup> | Stock Lengths m | Order No.   |
|---------|---------|--------------------------------------|-----------------|-------------|
| 2.5     | 4       | 8                                    | 200             | 7-3-001-000 |
| 4       | 6       | 8                                    | 200             | 7-3-002-000 |
| 5       | 8       | 8                                    | 100             | 7-3-003-000 |
| 6.5     | 10      | 8                                    | 100             | 7-3-005-000 |
| 8       | 12      | 8                                    | 100             | 7-3-006-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 7-4 LDPE TUBE

**Applications:**

- pressure hose
- for electronics, mechanical and food industry
- for conveying water, oil and gas under normal working condition

**Construction:**

- smooth interior and exterior wall

**Material:**

- LDPE

**Standard Color:**

- black and transparent

**Properties:**

- odourless and tasteless
  - good resistance to mineral oil, chemicals, UV and ozone
  - small bending radius
  - free of softener and halogen
  - gas and liquid tight
  - food complied with FDA
- Temperature Range:**
- -20 °C approx. to +70 °C approx.
- Specification:**
- $\varnothing$  2 to  $\varnothing$  9.53 mm

| I.D. mm   | O.D. mm    | Working Pressure kgf/cm <sup>2</sup> | Stock Lengths m | Order No.   |
|-----------|------------|--------------------------------------|-----------------|-------------|
| 2         | 3.175(1/8) | 15                                   | 200             | 7-4-001-000 |
| 2         | 4          | 15                                   | 200             | 7-4-002-000 |
| 2.5       | 4          | 13                                   | 200             | 7-4-003-000 |
| 4         | 6          | 13                                   | 100             | 7-4-004-000 |
| 4.57      | 6.35(1/4)  | 10                                   | 100             | 7-4-005-000 |
| 6         | 8          | 10                                   | 100             | 7-4-006-000 |
| 7         | 9.53(3/8)  | 9                                    | 100             | 7-4-007-000 |
| 7.5       | 10         | 9                                    | 100             | 7-4-008-000 |
| 9         | 12         | 9                                    | 100             | 7-4-009-000 |
| 9.53(3/8) | 12.7       | 9                                    | 100             | 7-4-010-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 7-5 NYLON TUBE

**Applications:**

- pressure hose
- for electronics, mechanical and food industry
- for conveying water, oil and gas under normal working condition

**Construction:**

- smooth interior and exterior wall

**Material:**

- PA6
- PA11 \ PA12

**Standard Color:**

- black and transparent

**Properties:**

- odourless and tasteless
  - hydrolysis resistant
  - good resistance to mineral oil, chemicals, UV and ozone
  - free of softener and halogen
  - gas and liquid tight
  - very robust
- Temperature Range:**
- -20 °C approx. to +70 °C approx.
- Specification:**
- $\varnothing$  2 to  $\varnothing$  9.53 mm

| I.D. mm   | O.D. mm    | Working Pressure kgf/cm <sup>2</sup> | Stock Lengths m | Order No.   |
|-----------|------------|--------------------------------------|-----------------|-------------|
| 2         | 3.175(1/8) | 30                                   | 200             | 7-5-001-000 |
| 2         | 4          | 36                                   | 200             | 7-5-002-000 |
| 2.5       | 4          | 16                                   | 200             | 7-5-003-000 |
| 4         | 6          | 17                                   | 100             | 7-5-004-000 |
| 4.57      | 6.35(1/4)  | 14                                   | 100             | 7-5-005-000 |
| 6         | 8          | 13                                   | 100             | 7-5-006-000 |
| 7         | 9.53(3/8)  | 14                                   | 100             | 7-5-007-000 |
| 7.5       | 10         | 14                                   | 100             | 7-5-008-000 |
| 9         | 12         | 14                                   | 100             | 7-5-009-000 |
| 9.53(3/8) | 12.7       | 14                                   | 100             | 7-5-010-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 7-6 PTFE TUBE

**Applications:**

- pressure hose
- for heat exchanger
- for transportation of all kinds of corrosive medium, chemical material and medical intermediate.
- for transportation of hot and cold liquid and gas
- for insulates and adiabatic sleeve

**Construction:**

- smooth interior and exterior wall

**Material:**

- PTFE

**Standard Color:**

- white

**Properties:**

- food quality complied with FDA
  - odourless and tasteless
  - insulation
  - good resistance to alkalis, acids, and chemicals
  - small bending radius
  - free of softener and halogen
  - gas and liquid tight
- Temperature Range:**
- -73 °C approx. to +260 °C approx.
- Specification:**
- $\varnothing$  2 to  $\varnothing$  9.53 mm

| I.D. mm    | O.D. mm | Working Pressure kgf/cm <sup>2</sup> | Stock Lengths m | Order No.   |
|------------|---------|--------------------------------------|-----------------|-------------|
| 2          | 4       | 15                                   | 100             | 7-6-001-000 |
| 2.5        | 4       | 12                                   | 100             | 7-6-002-000 |
| 4          | 6       | 10                                   | 100             | 7-6-003-000 |
| 4.76(3/16) | 6.35    | 8                                    | 100             | 7-6-004-000 |
| 6          | 8       | 7                                    | 100             | 7-6-005-000 |
| 5          | 8       | 7                                    | 100             | 7-6-006-000 |
| 6.35(1/4)  | 9.53    | 7                                    | 100             | 7-6-007-000 |
| 8          | 10      | 6                                    | 100             | 7-6-008-000 |
| 7.5        | 10      | 6                                    | 100             | 7-6-009-000 |
| 11         | 13      | 5                                    | 100             | 7-6-010-000 |
| 10         | 12      | 5                                    | 100             | 7-6-011-000 |
| 9          | 12      | 5                                    | 100             | 7-6-012-000 |
| 9.53(3/8)  | 12.7    | 5                                    | 100             | 7-6-013-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 7-7 FEP TUBE

**Applications:**

- pressure hose
- for solids
- for gaseous and liquid media

**Construction:**

- smooth interior and exterior wall

**Material:**

- FEP

**Standard Color:**

- transparent

**Properties:**

- food quality complied with FDA
  - odourless and tasteless
  - anti-adhesive
  - good resistance to alkalis, acids, and chemicals
  - small bending radius
  - free of softener and halogen
  - gas and liquid tight
  - high transparency
- Temperature Range:**
- -60 °C approx. to +200 °C approx.
- Specification:**
- $\varnothing$  2 to  $\varnothing$  9.53 mm

| I.D. mm    | O.D. mm | Working Pressure kgf/cm <sup>2</sup> | Stock Lengths m | Order No.   |
|------------|---------|--------------------------------------|-----------------|-------------|
| 2          | 4       | 15                                   | 100             | 7-7-001-000 |
| 2.5        | 4       | 12                                   | 100             | 7-7-002-000 |
| 4          | 6       | 10                                   | 100             | 7-7-003-000 |
| 4.76(3/16) | 6.35    | 8                                    | 100             | 7-7-004-000 |
| 6          | 8       | 7                                    | 100             | 7-7-005-000 |
| 5          | 8       | 7                                    | 100             | 7-7-006-000 |
| 6.35(1/4)  | 9.53    | 7                                    | 100             | 7-7-007-000 |
| 8          | 10      | 6                                    | 100             | 7-7-008-000 |
| 7.5        | 10      | 6                                    | 100             | 7-7-009-000 |
| 11         | 13      | 5                                    | 100             | 7-7-010-000 |
| 10         | 12      | 5                                    | 100             | 7-7-011-000 |
| 9          | 12      | 5                                    | 100             | 7-7-012-000 |
| 9.53(3/8)  | 12.7    | 5                                    | 100             | 7-7-013-000 |

Delivery Variants: customer-specific product marking, further diameters and lengths available on request

## J 7-8 PAINT TUBE

**Applications:**

- pressurized paint
- paint transport Tank & Pump
- best for the pressurized solvent transport

**Construction:**

- smooth interior and exterior wall

**Material:**

- inner: Nylon
- outer: polyurethane

**Standard Color:**

- transparent

**Properties:**

- crush-proof
- excellent resistance against solvents

**Temperature Range:**

- -5 °C approx. to +70 °C approx.

**Specification:**

- ø 5 to ø 8 mm

| I.D.<br>mm | O.D.<br>mm | Working Pressure<br>kgf/cm <sup>2</sup> | Stock Lengths<br>m | Order No.   |
|------------|------------|---|--------------------|-------------|
| 5          | 8          | 7                                       | 100                | 7-8-001-000 |
| 6.35       | 9.65       | 7                                       | 100                | 7-8-002-000 |
| 8          | 11         | 7                                       | 100                | 7-8-003-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 7-9 PAINT-TWIN TUBE

**Applications:**

- pressurized paint & Thinner transport
- pressurized paint transport Tank & Pump

**Construction:**

- the air hose and the pressurized solvent transport hose are paired

**Material:**

- inner: Nylon
- outer: polyurethane
- air hose material: PU
- air hose reinforcement: ester-polyurethane

**Properties:**

- crush-proof
- excellent resistance against solvents
- best for the pressurized solvent transport

**Temperature Range:**

- -5 °C approx. to +50 °C approx.

| I.D.<br>mm | O.D.<br>mm | Working Pressure<br>kgf/cm <sup>2</sup> | Stock Lengths<br>m | Order No.   |
|------------|------------|---|--------------------|-------------|
| air 6.5    | 10         | 6                                       | 100                | 7-9-001-000 |
| paint 6.5  | 10         | 6                                       | 100                |             |
| air 6.5    | 10         | 6                                       | 100                | 7-9-002-000 |
| paint 8    | 11         | 7                                       | 100                |             |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 10-1 HOSE CLAMP

**Applications:**

- clamp for attachment of light-duty hoses with smooth exterior

**Material:**

- clamp band: stainless steel
- screw: chrome-plated steel

**Properties:**

- easily and quickly fitted
- re-usable
- rust-proof

| Clamping Range<br>I.D.<br>mm | Band Width<br>mm | Order No.    | Clamping Range<br>I.D.<br>mm | Band Width<br>mm | Order No.    |
|------------------------------|------------------|--------------|------------------------------|------------------|--------------|
| 13-27                        | 9                | 10-1-013-000 | 89-115                       | 14               | 10-1-089-000 |
| 19-38                        | 9                | 10-1-019-000 | 102-127                      | 14               | 10-1-102-000 |
| 25-51                        | 9                | 10-1-025-000 | 115-140                      | 14               | 10-1-115-000 |
| 38-64                        | 11               | 10-1-038-000 | 127-152                      | 14               | 10-1-127-000 |
| 51-76                        | 12               | 10-1-051-000 | 152-180                      | 14               | 10-1-152-000 |
| 64-89                        | 14               | 10-1-064-000 | 165-190                      | 14               | 10-1-165-000 |
| 78-102                       | 14               | 10-1-078-000 | 215-255                      | 14               | 10-1-215-000 |

Delivery Variants: customer-specific product marking, further colors, diameters and lengths available on request

## J 10-2 HOSE CLAMP

**Applications:**

- special clamp for attachment of exterior corrugated spiral hoses

**Construction:**

- stainless steel (VA).

**Material:**

- clamp band: stainless steel
- bridge: stainless steel
- screw: chrome-plated steel

**Properties:**

- practically leak-proof and firmly clamped with special bridge
- easily and quickly fitted geometry
- re-usable
- rust-proof
- very robust

| Clamping Range<br>I.D.<br>mm | Order No.    | Clamping Range<br>I.D.<br>mm | Order No.    |
|------------------------------|--------------|------------------------------|--------------|
| 27-47                        | 10-2-027-000 | 115-135                      | 10-2-115-000 |
| 35-55                        | 10-2-035-000 | 145-165                      | 10-2-145-000 |
| 45-65                        | 10-2-045-000 | 185-205                      | 10-2-185-000 |
| 55-75                        | 10-2-055-000 | 195-215                      | 10-2-195-000 |
| 65-85                        | 10-2-065-000 | 215-235                      | 10-2-215-000 |
| 85-105                       | 10-2-085-000 | 245-265                      | 10-2-245-000 |
| 95-115                       | 10-2-095-000 | 295-315                      | 10-2-295-000 |

## J 10-3 PLASTIC FITTING HOSE CLAMP

**Applications:**

- special clamp for attachment of exterior corrugated spiral hoses
- can install only by hands, easily and quickly fitted

**Material:**

- clamp: stainless steel
- bridge: stainless steel
- connector: plastic steel

| Clamping Range<br>I.D.<br>mm | Order No.    | Clamping Range<br>I.D.<br>mm | Order No.    |
|------------------------------|--------------|------------------------------|--------------|
| 27-47                        | 10-3-027-000 | 115-135                      | 10-3-115-000 |
| 35-55                        | 10-3-035-000 | 145-165                      | 10-3-145-000 |
| 45-65                        | 10-3-045-000 | 185-205                      | 10-3-185-000 |
| 55-75                        | 10-3-055-000 | 195-215                      | 10-3-195-000 |
| 65-85                        | 10-3-065-000 | 215-235                      | 10-3-215-000 |
| 85-105                       | 10-3-085-000 | 245-265                      | 10-3-245-000 |
| 95-115                       | 10-3-095-000 | 295-315                      | 10-3-295-000 |

## J 10-4 PINTLE HOSE CLAMP

**Applications:**

- clamp for high-pressure environment

**Material:**

- clamp band: stainless steel
- bridge: steel pintle

| Clamping Range<br>I.D.<br>mm | Order No.    | Clamping Range<br>I.D.<br>mm | Order No.    |
|------------------------------|--------------|------------------------------|--------------|
| 17-19                        | 10-4-017-000 | 48-51                        | 10-4-048-000 |
| 20-22                        | 10-4-020-000 | 52-55                        | 10-4-052-000 |
| 23-25                        | 10-4-023-000 | 56-59                        | 10-4-056-000 |
| 26-28                        | 10-4-026-000 | 60-63                        | 10-4-060-000 |
| 29-31                        | 10-4-029-000 | 64-67                        | 10-4-064-000 |
| 32-35                        | 10-4-032-000 | 68-73                        | 10-4-068-000 |
| 36-39                        | 10-4-036-000 | 74-79                        | 10-4-074-000 |
| 40-43                        | 10-4-040-000 | 80-85                        | 10-4-080-000 |
| 44-47                        | 10-4-044-000 |                              |              |

## J 11-1 RUBBER CONNECTOR



### Applications:

- soft sleeve for interior and exterior connections

### Material:

- special rubber

### Standard Color:

- white and black

### Temperature Range:

- -20 °C approx. to +125 °C approx.

### Suitable For Hose:

- J 1-1 • J 1-10
- J 1-2 • J 2-1
- J 1-3 • J 2-7
- J 1-4 • J 5-1
- J 1-5

| I.D.<br>mm | Order No.    | I.D.<br>mm | Order No.    |
|------------|--------------|------------|--------------|
| 50         | 11-1-050-000 | 125        | 11-1-125-000 |
| 63         | 11-1-063-000 | 150        | 11-1-150-000 |
| 76         | 11-1-076-000 | 200        | 11-1-200-000 |
| 100        | 11-1-100-000 | 250        | 11-1-250-000 |

## J 11-2 STAINLESS STEEL CONNECTOR



### Applications:

- to connect, reduce and extend hose lines

### Material:

- stainless steel (VA) 1.4301/ AISI 304/ W2

### Properties:

- easily and quickly fitted

### Temperature Range:

- +400 °C approx.

| I.D.<br>mm | Order No.    |
|------------|--------------|
| 50         | 11-2-050-000 |
| 63         | 11-2-063-000 |
| 76         | 11-2-076-000 |
| 100        | 11-2-100-000 |
| 125        | 11-2-125-000 |
| 150        | 11-2-150-000 |
| 200        | 11-2-200-000 |
| 250        | 11-2-250-000 |

## J 11-3 SILICONE CONNECTOR



### Applications:

- soft sleeve for interior and exterior connections

### Material:

- wall: silicone

### Standard Color:

- red

### Temperature Range:

- -40 °C approx. to +260 °C approx.

### Suitable For Hose:

- J 6-1
- J 6-2
- J 6-3
- J 6-4
- J 6-5

| I.D.<br>mm | Order No.    | I.D.<br>mm | Order No.    |
|------------|--------------|------------|--------------|
| 50         | 11-3-050-000 | 125        | 11-3-125-000 |
| 63         | 11-3-063-000 | 150        | 11-3-150-000 |
| 75         | 11-3-075-000 | 200        | 11-3-200-000 |
| 100        | 11-3-100-000 | 250        | 11-3-250-000 |

## J 11-4 HOSE INSULATOR



### Applications:

- suitable for heat and cold transport hose
- thermal insulation

### Material:

- high density compound foam

### Standard Color:

- black

### Construction:

- adjustable Velcro strap

### Temperature Range:

- -20 °C approx. to +160 °C approx.

| I.D.<br>inch | Wall thickness<br>mm | Stock Lengths<br>m | Order No.    |
|--------------|----------------------|--------------------|--------------|
| 2            | 6                    | 1                  | 11-4-002-000 |
| 3            | 6                    | 1                  | 11-4-003-000 |
| 4            | 6                    | 1                  | 11-4-004-000 |
| 5            | 6                    | 1                  | 11-4-005-000 |
| 6            | 6                    | 1                  | 11-4-006-000 |
| 8            | 6                    | 1                  | 11-4-008-000 |

## J 11-5 EVA HOSE CONNECTOR



### Application:

- soft sleeve for interior and exterior connections

### Material:

- rubber

### Standard Color:

- white and black

### Temperature Range:

- -20 °C approx. to +125 °C approx.

### Suitable For Hose:

- J 3-2

| I.D.<br>mm | Order No.    |
|------------|--------------|
| 25         | 11-5-025-000 |
| 32         | 11-5-032-000 |
| 38         | 11-5-038-000 |
| 50         | 11-5-050-000 |

## J 11-6 STAINLESS STEEL CONNECTOR



### Applications:

- transmission of fluid and granule

### Material:

- stainless steel

### Suitable For Hose:

- J 2-4
- J 2-5
- J 2-6

| I.D.<br>mm | Order No.    | I.D.<br>mm | Order No.    |
|------------|--------------|------------|--------------|
| 25         | 11-6-025-000 | 76         | 11-6-076-000 |
| 32         | 11-6-032-000 | 102        | 11-6-102-000 |
| 38         | 11-6-038-000 | 127        | 11-6-127-000 |
| 51         | 11-6-051-000 | 152        | 11-6-152-000 |
| 63         | 11-6-063-000 |            |              |

## J3-4 HDPE EL RIGID BEND HOSE



### Applications:

- for air, fume extraction and liquid supply at low pressures
- for conveyance of powders, granules and dust extraction
- for woodworking dust
- portable air conditioner venting hose

### Construction:

- wall: HDPE

### Standard Color:

- black

### Properties:

- self-supporting
- superior resistance to alkalis and acids
- simply increase or decrease the size
- jointing of lengths
- able to maintain shape
- electrical and surface resistance  $\leq 10^6 \Omega$

### Temperature Range:

- $-20^\circ\text{C} \sim +70^\circ\text{C}$

## J20-5 VACUUM LIFT HOSE



### Applications:

- for vacuum lift equipment

### Material:

- wall: rubber
- spiral: elastic steel wire

### Properties:

- high working pressure

### Temperature Range:

- $-20^\circ\text{C} \sim +150^\circ\text{C}$

### Specification:

- $\varnothing$  100-180mm

## J 1-12 PVC ALUMINUM FLEX HOSE



### Applications:

- for transfer of air, air conditioning ductwork

### Material:

- wall: PVC with Aluminum
- spiral: spring steel wire

### Properties:

- small bending radius
- very good low temperature flexibility
- kink-proof
- outside PVC protection

### Temperature Range:

- $-20^\circ\text{C}$  approx. to  $+80^\circ\text{C}$  approx.

## BRAIDED TUBE



### Applications:

- for conveying water, oil, air pressure tube

### Material:

- inner: PVC, NBR, PU, EPDM, etc.
- outer (fabric): PP, Nylon, Kevlar, etc.

## CUSTOMER SPECIFIC CONNECTORS



### Applications:

- for hose connector processing for automotive, pneumatic lines, oiling machine and machinery industry
- for all tube connector processing, we provide customization service for your needs

## STRETCH HOSE



- Applications: for powdery solids such as dust, powder and fibre

### Material:

- PVC, PU

### Properties:

- compressible 1:7
- freely stretch and compression customer-specific

## PNEUMATIC SPIRAL TUBE



### Applications:

- for pneumatic lines, pressure tube for conveying water, oil and air

### Material:

- Nylon, PU, PE, PTFE, FEP

### Properties:

- freely stretch and compression

## CORRUGATED TUBE



- Applications: for electrical, semiconductor, PCB, LCD, chemical plant

### Material:

- PTFE, FEP, PFA (PFA 951HP or PFA451H)

### Properties:

- good resistance to alkalis and acids, chemicals
- high transparency
- low coefficient of friction, anti-sticking customer-specific

## EXHAUST HOSE



- Applications: exhaust hose for modified car

### Material:

- TPV

### Construction:

- wall thickness 0.5 mm
- TPV mechanically clamped into width 8 mm stainless steel band

### Properties:

- good resistance to high temperature