



## Master-PUR HX Trivolution

Article Master No.: 000158

PU Transport hose & Suction Hose, highly abrasion resistant and vacuum proof, with reinforcement underneath the spiral, antistatic, microbe-resistant, hardly inflammable acc. to DIN 4102 B1



antistatic



microbe resistant



flame retardant



transparent



moderately flexible



heavy



very pressure resistant

### Product Details

#### Construction / Material

- Type of construction: profile extruded hose with metal spiral
- Spiral Design: made of steel wire
- Material of the spiral: spring steel
- Execution of the wall: made of pure material / made of specified material / extremely abrasion resistant due to specific reinforcement underneath the spiral / addition of a non-migrating permanent antistatic agent / wall thickness between the spirals approx. 2.0 mm
- Material of the wall: Polyester Polyurethane
- Specifications of the wall: surface resistance  $R_0 < 10^9$  Ohm, measured according to DIN EN ISO 8031 / flame retardant according to DIN 4102 B1

#### Properties

- Specifications of the product: complies with DIN 26057 Type IV / according to TRGS 727 and ATEX 2014/34 EU
- Chemical Properties: microbe-resistant / good UV resistance / halogen-free / good resistance to oil / good resistance to petrol / good ozone resistance / plasticiser-free
- Flexibility: moderately flexible
- Physical Properties: permanently antistatic
- Weight: heavy

- Pressure Resistance: very pressure resistant
- Colour: transparent
- Other: high vacuum and peak pressure resistance / configurable as a hose system with digital interface for compatibility with the AMPIUS® app

### Operating Temperature

- Temperature Range: -40 to 90 °C
- short-term maximum temperature: peaks to 125 °C

### Delivery Information

- Delivery, type of production: various nominal widths in standard lengths are available ex-production, individual nominal widths and lengths also ex-stock

### Application Areas

- Areas of application: Agriculture / Automotive / Plant & Mechanical Engineering / Industry / Semiconductor Industry / Bulk & Construction / Sea & Rail transport / Wood / Chemistry / Food & Pharma / Waste Disposal & Cleaning Technology / Plastics / Conveying, lifting & feeding technology / Textile / Printing & Paper / Vehicle Construction / Metal & Toolmaking

### Customizing Options

- optional item modification (on request): other colours / other lengths / other nominal widths / with customer-specific imprint

## Article Variants

| Extended Article Number | Article number | Nominal Size (DN) mm | Outer diameter mm | Bending radius* mm | Weight kg/m | Operating pressure bar | Negative pressure bar | Max. Production length m | Stock Lengths m                | Length (standard lengths available for order) m |
|-------------------------|----------------|----------------------|-------------------|--------------------|-------------|------------------------|-----------------------|--------------------------|--------------------------------|---|
| 000158:32:x             | 000158         | 32                   | 42                | 80                 | 0.66        | 4.85                   | 0.94                  | 20.00                    | 5 / 7.50 / 10                  | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:38:x             | 000158         | 38                   | 48                | 95                 | 0.78        | 4.39                   | 0.94                  | 20.00                    | 5 / 7.50 / 10 / 15             | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:40:x             | 000158         | 40                   | 50                | 100                | 0.83        | 4.27                   | 0.94                  | 20.00                    | 5 / 7.50 / 10 / 15 / 20        | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:45:x             | 000158         | 45                   | 55                | 115                | 0.92        | 4.10                   | 0.94                  | 20.00                    | 5 / 7.50 / 10 / 15             | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:51:x             | 000158         | 51                   | 61                | 125                | 1.04        | 4.00                   | 0.94                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15 / 20 | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:55:x             | 000158         | 55                   | 65                | 140                | 1.10        | 3.75                   | 0.89                  | 20.00                    | 2.50 / 5 / 7.50 / 10           | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:60:x             | 000158         | 60                   | 70                | 150                | 1.20        | 3.60                   | 0.89                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15 / 20 | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:65:x             | 000158         | 65                   | 75                | 165                | 1.29        | 3.30                   | 0.89                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15      | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:70:x             | 000158         | 70                   | 80                | 175                | 1.38        | 3.15                   | 0.89                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15      | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:76:x             | 000158         | 76                   | 87                | 190                | 1.50        | 2.92                   | 0.89                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15      | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:80:x             | 000158         | 80                   | 93                | 200                | 1.93        | 2.77                   | 0.89                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15      | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:90:x             | 000158         | 90                   | 103               | 225                | 2.16        | 2.40                   | 0.89                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15      | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:100:x            | 000158         | 100                  | 113               | 238                | 2.53        | 2.15                   | 0.88                  | 20.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |

| Extended Article Number | Article number | Nominal Size (DN) mm | Outer diameter mm | Bending radius* mm | Weight kg/m | Operating pressure bar | Negative pressure bar | Max. Production length m | Stock Lengths m                | Length (standard lengths available for order) m |
|-------------------------|----------------|----------------------|-------------------|--------------------|-------------|------------------------|-----------------------|--------------------------|--------------------------------|---|
| 000158:102:x            | 000158         | 102                  | 115               | 250                | 2.60        | 2.10                   | 0.87                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15 / 20 | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:110:x            | 000158         | 110                  | 124               | 275                | 2.82        | 1.95                   | 0.87                  | 20.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:115:x            | 000158         | 115                  | 129               | 290                | 2.94        | 1.80                   | 0.87                  | 20.00                    | 2.50 / 5 / 7.50 / 10           | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:120:x            | 000158         | 120                  | 134               | 300                | 3.07        | 1.65                   | 0.87                  | 20.00                    | 2.50 / 5 / 7.50 / 10           | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:125:x            | 000158         | 125                  | 138               | 311                | 3.34        | 1.65                   | 0.87                  | 20.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:127:x            | 000158         | 127                  | 140               | 315                | 3.44        | 1.65                   | 0.87                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15 / 20 | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:130:x            | 000158         | 130                  | 143               | 325                | 3.54        | 1.65                   | 0.84                  | 20.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:140:x            | 000158         | 140                  | 153               | 350                | 3.81        | 1.50                   | 0.83                  | 20.00                    | 2.50 / 5 / 7.50 / 10           | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:150:x            | 000158         | 150                  | 165               | 434                | 4.08        | 1.50                   | 0.82                  | 20.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:152:x            | 000158         | 152                  | 167               | 450                | 4.13        | 1.50                   | 0.82                  | 20.00                    | 2.50 / 5 / 7.50 / 10 / 15 / 20 | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:160:x            | 000158         | 160                  | 175               | 500                | 4.81        | 1.35                   | 0.81                  | 20.00                    | 2.50 / 5 / 7.50 / 10           | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:170:x            | 000158         | 170                  | 185               | 600                | 5.10        | 1.20                   | 0.80                  | 20.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:175:x            | 000158         | 175                  | 190               | 650                | 5.25        | 1.20                   | 0.79                  | 20.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:180:x            | 000158         | 180                  | 195               | 700                | 5.40        | 1.20                   | 0.77                  | 20.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15 / 20                    |
| 000158:200:x            | 000158         | 200                  | 217               | 918                | 6.30        | 1.07                   | 0.68                  | 15.00                    | /                              | 2.5 / 5 / 7.5 / 10 / 15                         |
| 000158:203:x            | 000158         | 203                  | 220               | 950                | 6.43        | 1.05                   | 0.66                  | 15.00                    | 2.50 / 5 / 7.50 / 10 / 15      | 2.5 / 5 / 7.5 / 10 / 15                         |
| 000158:225:x            | 000158         | 225                  | 241               | 1150               | 7.11        | 0.90                   | 0.58                  | 10.00                    | 2.50 / 5 / 7.50 / 10           | 2.5 / 5 / 7.5 / 10                              |
| 000158:250:x            | 000158         | 250                  | 267               | 1300               | 7.91        | 0.90                   | 0.51                  | 10.00                    | 2.50 / 5 / 7.50 / 10           | 2.5 / 5 / 7.5 / 10                              |
| 000158:254:x            | 000158         | 254                  | 271               | 1325               | 8.04        | 0.88                   | 0.50                  | 10.00                    | /                              | 2.5 / 5 / 7.5 / 10                              |
| 000158:275:x            | 000158         | 275                  | 292               | 1450               | 8.68        | 0.75                   | 0.47                  | 10.00                    | /                              | 2.5 / 5 / 7.5 / 10                              |
| 000158:300:x            | 000158         | 300                  | 317               | 1600               | 9.45        | 0.60                   | 0.42                  | 10.00                    | /                              | 2.5 / 5 / 7.5 / 10                              |

All data refer to a medium and ambient temperature of +20°C.

Specification of the bending radius related to the inside of the hose bend

Subject to technical changes and colour deviations

## Delivery Variants

Available in other lengths, other nominal diameters, with customer-specific customer-specific imprint.

## Disposal instructions

After use, the product must be disposed of in accordance with the legal regulations applicable in the user's region (in Germany in accordance with the applicable Waste Catalogue Ordinance (AVV)).

## Suitable for the product



### Combiflex PU Swivel Flange

screw-on plastic collar with loose flange for Master-PUR L, Master-PUR H, Master-PUR HX and Master-PUR Performance, for counterflanges acc. to DIN 2632 / DIN 2633 / DIN 2673



### Combiflex PU Cone Flange, screwable

screw-on quick connector system for all Master-PUR L, Master-PUR H and Master-PUR HX hose types, following DIN 3016



### Combiflex PU Fixed Flange

screw-on plastic flange for Master-PUR L, Master-PUR H, Master-PUR HX and Master-PUR Performance, for counterflanges according to DIN 2632 / DIN 2633 / DIN 2673



### Combiflex PU Threaded Sockets

PU threaded connector for all Master-PUR L, Master-PUR H and Master-PUR HX hose types, based on DIN ISO 228



### Hose Clamp with Bolts

special clamp for fastening medium and heavy spiral hoses to connection pipes on mobile and stationary units



### Hose Clamp with Bolts, Steel quality W4, stainless steel 1.4301

Special clamp for fastening medium and heavy spiral hoses to connection pipes on mobile and stationary units

### Individual consultation

We offer consultation by phone:  
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Product requests via  
[masterflex.de/en](http://masterflex.de/en)

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