

The new Superheroes from Masterflex

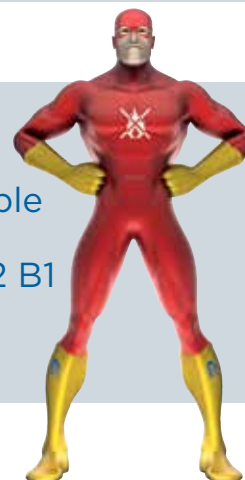
Antistatic acc. to TRBS 2153



The hoses in the new **Master-PUR Trivolution** series are all antistatic. This is thanks to a non-migrating permanent antistatic agent now included in the raw material mixture. This means the hose series accords to ATEX/TRBS 2153 ("Avoidance of ignition hazards due to electrostatic charges") and can be freely applied for all such applications. The new hoses are especially suitable for processing plants in Ex-zones and for transporting flammable powder and bulk goods.

The raw material applied in the **Master-PUR Trivolution** hose series is equipped with a special flame-retardant additive and therefore makes the entire hose series "hardly flammable" acc. to DIN 4102 B1. The new **Master-PUR Trivolution** from Masterflex is made from abrasion-resistant polyester-PU in contrast to most other competitor products.

Hardly Flammable acc. to DIN 4102 B1



Microbe- Resistant



The polyester-polyurethane applied in the **Master-PUR Trivolution** hose series is, thanks to its special mixture of raw materials and additives, extremely resistant to microbe-induced corrosion. In contrast, polyester-polyurethane without such additional microbe protection runs the risk of being destroyed through longer exposure to microbial attack.



Masterflex SE
Willy-Brandt-Allee 300
45891 Gelsenkirchen
Germany
Tel +49 209 97077-0
Fax +49 209 97077-33
www.masterflex.de
info@masterflex.de

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 **MASTERFLEX**
Connecting Values



World-First!

Master-PUR Trivolution - A superpowered combination!

Antistatic + Hardly Inflammable + Microbe-Resistant



Master-PUR Trivolution

A Powerhouse with Unbeatable Features!

Master-PUR Trivolution is the brand new superhero in the Masterflex product range and offers unbeatable **antistatic, hardly inflammable & microbe-resistant** features.

The **Master-PUR Trivolution** series is a further development of the industry-renowned Master-PUR hose range, which is a direct result of our customers' wishes. The **Master-PUR Trivolution** consists of pure polyester-polyurethane (PU). The polyester-PU applied here is equipped with much improved mechanical features in comparison to the more often-used and conventional polyether-PU.

The optimised hose series is available in the following versions:

- Master-PUR L-F Trivolution (0.4 - 0.5 mm)
- Master-PUR L Trivolution (0.7 mm)
- Master-PUR H Trivolution (1.4 mm)
- Master-PUR HÜ Trivolution (1.7 mm)
- Master-PUR HX Trivolution (1.7 - 2.1 mm)



Result:

The combined powers of the **Master-PUR Trivolution** create a quantifiable added value and at no extra cost!

Even with its newly modified raw material mix, the high-performance materials guarantee unbeatable product life-cycles, making the all-new **Master-PUR Trivolution** highly versatile & universally applicable.

User Benefits:

- Thanks to its combination of antistatic, hardly inflammable and microbe-resistant features, it offers a huge spectrum of applications for the widest range of media
- The **Master-PUR Trivolution** offers added value at no extra cost compared to previous models in the Master-PUR range
- The polyester-PU applied provides even greater mechanical features than the conventional and often-used Polyether-PU
- The special new raw material mixture of the **Master-PUR Trivolution** makes it officially "hardly inflammable" according to DIN 4102 B1
- The **Master-PUR Trivolution's** antistatic feature fulfills all requirements of the TRBS 2153 standard and 94/9/EG (ATEX 95) guideline for the avoidance of ignition hazards due to electrostatic charges
- Profit directly from the simplified product selection, highly improved product availability and reduced storage costs
- Playing it safe just got easier with this new and certified powerhouse of a product

All the facts at a glance:



Master-PUR Trivolution Series:
PU Suction & Transport Hose,
antistatic, surface resistance
 $R_o < 10^9$, hardly inflammable
acc. to DIN 4102 B1,
microbe-resistant

Versions:

Master-PUR L-F / L / H / HÜ / HX Trivolution

Material

Spiral: spring steel wire

Wall: pure polyester-polyurethane

Wall thickness: dep. on version

Applications (dep. on version)

- Transport of fine-grained particles, such as dust and powder
- Suction & transport hose for highly abrasive solids, liquids and gases,
- Oil mist extraction/suction
- heavy-duty to reinforced versions for suction of coarse-grained media with a high flow-rate
- Granule transport hose
- Transport of woodchips & splinters
- for silo vehicles & loading stations
- for problematic transport goods such as sand, gravel, grain & granules

Properties

- hardly inflammable acc. to DIN 4102 B1
- antistatic, surface resistance $R_o < 10^9$ acc. to TRBS 2153 (Zone 20) for flammable dusts/bulk goods for the dissipation of electrostatic charges with grounding at both spiral ends
- microbe-resistant
- oil/petroleum-proof
- highly abrasion-resistant
- good flexibility
- halogen/plasticizer-free
- good chemical resistance
- generally good UV/ozone resistance
- high tensile strength (dep. on version)

Temperature Range

- -40°C to +90°C
- peaks to +125°C

Depending on version and hose type, there are a wide range of connectors available:



Master-Grip
Hose Clamp



Master-Grip
Quick-Grip Clamp



Hose Clamp with
Bolts



Hose Reducer,
symmetrical



Combiflex PU
Fixed Flange



Hose Connector



PU-Cuff,
electroconductive



Combiflex PU
Cone Flange,
screwable/fixed



Combiflex PU
Threaded Socket,
screwable/fixed



Combiflex PU
Swivel Flange