



## Technical Hoses & Connection Systems



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A MASTERFLEX GROUP COMPANY

 **MASTERFLEX**  
 Connecting Values

# Masterflex

## - your partner for high-tech hose systems

Five good reasons why you should be a Masterflex customer.

### About Masterflex

As a globally operating corporate group, Masterflex specialises in solving complex connection challenges. We can now boast over 25 years worth of experience in the development, manufacturing and processing of high-tech spiral hoses. Our in-depth material and technological expertise helps us turn the most sophisticated high performance plastics into real products, which set international standards. Our core values determine our work philosophy and connect us directly with the whole group.

### Masterflex - Connecting Values

1

#### What makes us special

Customized hose solutions or products from stock? Whatever you require, we have the right products for your application. We solve connection tasks using high-tech plastics and technically sophisticated fabrics. Here lies our expertise and our passion. We offer added value for our customers with our many years of experience in the field of polymer materials, technically sophisticated fabrics and their processing. From the first on-site consultation and the status analysis through to the development and production of the suitable products - we're there to support you throughout the whole process with our innovative complete solutions.

*Custom-made and all from one supplier.*

2

#### Why you can always count on us

You can always rely on the constantly high quality of our products. Our products meet even the most stringent of national and international standards. This is a basic demand we place on ourselves. Whether heat, cold, extreme conditions or exposure to chemicals, our products prove themselves through their incredible durability and the long-lasting safety they bring. No matter how good our products are now, we are always working on newer and better ones for the future.

*Your satisfaction is our greatest success.*





 **MATZEN & TIMM**

 **NOVOPLAST**  
SCHLAUCHTECHNIK

 **FLEIMA-PLASTIC**

 **MASTERDUCT**

**3**

#### **We make it possible for you**

We are as flexible as the very materials we use. We tackle any challenge, because extraordinary tasks require extraordinary solutions. And that's exactly what we offer. With our in-depth specialist know-how, we develop customized product solutions for your specific application situation. You need a product quickly, require an unusual combination of materials or a delivery "just in time"? With our quick reactions and delivery times, we're the perfect partner for you:

[Because in our business, reliable connections mean much more.](#)

**4**

#### **We're there where you need us**

We develop sophisticated and customized products with greater customer benefits. For this reason, our highly experienced sales team is spread worldwide, nearer to wherever you need us. As a fundamentally strong development partner, we have our eye on the market and develop cutting-edge solutions for your specific tasks. At all of our locations throughout the world, our products are manufactured with our renowned German Engineering. This guarantees high quality, short distances, quick reaction times and the direct connection to you, the customer.

[Consultation-oriented, individual, fast and with great expertise - that makes the difference!](#)

**5**

#### **Quality, which speaks for itself**

Visionary ideas drive us forwards and are the source of our own product developments and innovations. Our creations are produced with renowned German Engineering expertise. Our Engineering, Sales and Production Teams work seamlessly to provide you with the best results. This guarantees international quality standards, worldwide. Whatever we do, we always take great care of the environment. Resource-conserving processes and sustainability are our contribution to the environment.

[Products & Services from Masterflex - we create values ... and connect them!](#)

## Hose Construction Designs

### Definition: Hoses

Flexible, pipe-shaped connections for transporting solid, liquid or gaseous media.

### Hose Construction Designs

#### Hoses/Ducting with Clip Profile Spiral

All Master-Clip hoses belong in this category, as well as the hose types Carflex 200 and Carflex 300.

##### Construction

Robust, tension-resistant connection of the inner hose material and the outer profile helix using the special "Clip" method.

##### Advantages

This method offers an extremely wide range of options for the universal processing and combination of almost any hose materials.

- External wear protection via outer clip-profile helix (Clip)
- Excellent flexibility
- Smallest bending radius
- Extremely compressible (depending on size)
- Installation-friendly thanks to the patented "Clip-Grip" special hose clamps
- Almost any production diameter possible from DN 38 - DN 2000

#### Profile-Extruded Hoses

This construction design includes all Master-PUR, Master-PVC L, Master-PVC H, Master-PE L-EL and Master-SANTO hoses, as well as the hose types Streetmaster, Cargoflex, Polderflex PUR, Inline and Flamex B se.

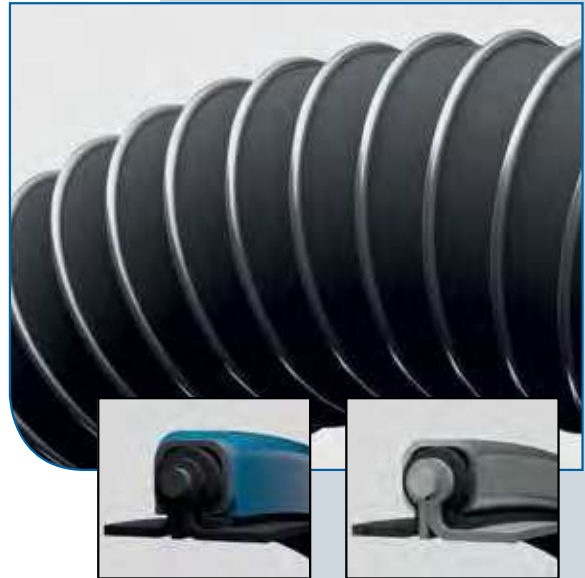
##### Construction

Extruded plastic profile with a moulded twist and dislocation-proof spring steel wire.

##### Advantages

Production variations available from lightweight and highly flexible through to heavy duty and extremely vacuum-proof.

- spiral-shaped with welded overlaps
- continuous, symmetrical folding due to robust connection between plastic and spring steel wire
- aerodynamically efficient due to smooth inner lining
- wide range of processing options available for almost all thermo-plastic materials
- production diameters available (dep. on hose type) from DN 13 - DN 500





### **Film/Foil/Fabric Hoses with Embedded Helix**

This construction design is applied for the Flamex B-F se, Master-PUR L-F Food and Master-PE L-F EL hose types.

#### **Construction**

Strips of film, foil or fabric – spiral-shaped with welded overlaps and an embedded profile made from spring steel wire.

#### **Advantages**

Variable production options for spiral hoses made from a wide range of materials including strips of film, foil or fabric.

- highly flexible
- smallest bending radius
- cost-efficient stock management and reduced transport costs thanks to compressed size with net packaging
- production diameters available (dep. on hose type) from DN 32 - DN 450



### **Film/Foil/Fabric Hoses with External Helix**

This method includes the hose types Carflex Super, Master-PUR STEP, Master-PUR STEP MHR and Master-SANTO SL.

#### **Construction**

Strips of film, foil or fabric – spiral-shaped with welded overlaps and an external profile made from plastic or plastic-coated spring steel wire.

#### **Advantages**

Variable production options for spiral hoses made from a wide range of materials including strips of film, foil or fabric.

- highly flexible
- smallest bending radius
- production diameters available (dep. on hose type) from DN 32 - DN 450



### **Spiral Hoses with Seamless Plastic Outer Coating**

This design includes the Carflex Super, Master-PUR STEP, Master-PUR STEP MHR and Master-SANTO SL.

#### **Construction**

Strips of film, foil or fabric – spiral-shaped with welded overlaps and an external profile made from plastic or plastic-coated spring steel wire.

#### **Advantages**

- seamless outer hose coating
- extremely flexible
- smallest bending radii
- production diameters available from DN 7 - DN 50

### Single/Multi-Layered Spiral Hoses made from Vulcanised Fabric Strips

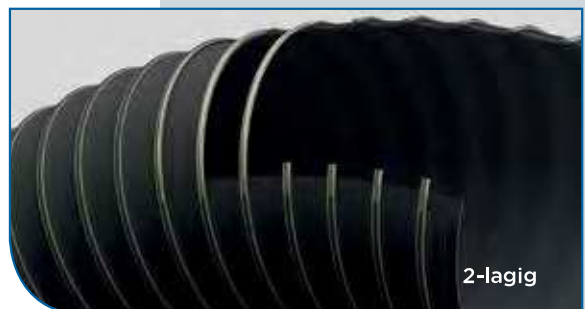
This construction design encompasses the hose types Master-NEO 1, Master-NEO 2, Master-SIL 1, Master-SIL 2, Master-SIL HD-Food and Master-SIL SD-Food.

#### Construction

Vulcanised fabric strips wound with overlaps onto an inner, free-floating or embedded helix made from spring steel wire and an additional external fibreglass fixation for the hose types NEO 1/2 and SIL 1/2.

#### Advantages

- smooth inner lining
- flexible
- small bending radius
- good pressure-resistance
- production diameters available from DN 13 - DN 305



### templine® Heated Hoses

Hose with electrical heating for constant and consistent heat distribution over the entire hose surface.

#### Construction

Inner media hose made from polyamide or PTFE. Braided temperature-resistant material covering the entire hose surface. Four integrated (braided and set) heating cables made from different alloys with varying conductor resistances.

#### Advantages

- consistent heat supply to the transport media with minimal temperature deviation
- optimum protection of temperature-sensitive liquids, dusts, gases and granules
- greater energy efficiency – significantly reduced power consumption in comparison to conventional systems (up to 30 %)
- highly flexible and permanently twistable in all directions (360°) without any reduction in heat distribution



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# Product Overview

**1**

## Abrasion-Resistant Suction & Tr

Miniflex PU

Master-PUR STEP

Master-PUR L

Master-PUR H

Master-PUR HÜ

Master-PUR HÜ-S

Master-PUR HX

Master-PUR HX-S

Cargoflex

Master-PUR Inline

Polderflex PUR

Master-PUR Flat L Food

Master-PUR Flat H Food

Master-PUR Flat HX Food

**2**

## Suction & Transport Hoses made

Miniflex PVC

Master-PVC L

Master-PVC L-F

Master-PVC L-F EL

Master-PVC H

Master-PVC H-F

Master-PVC Flex

## Product Overview

	Master-PUR HX Food
	Master-PUR HX Food A
	Polderflex PUR Food
	Polderflex PUR Food A
	Master-PUR Flat L Food
	Master-PUR Flat H Food
	Master-PUR Flat HX Food
	Master-SIL HD Food
	Master-SIL SD Food

### 6

#### Antistatic & Electroconductive

Master-PUR L-A
Master-PUR L-A se
Master-PUR L-EL
Master-PUR L-MHR A
Master-PUR H-A
Master-PUR H-A se
Master-PUR H-EL
Master-PUR H-MHR A
Master-PUR HÜ-A
Master-PUR HX-A
Master-PUR HX-EL
Master-PE L-F EL
Master-PE L-EL

## Product Overview

	Master-Clip ISO-CAR
	Master-Clip KAPTON
	Master-Clip HT 450
	Master-Clip HT 650
	Master-Clip HTP 800
	Master-Clip HT 1.100
<b>10</b>	<b>Temperature-Resistant Hoses u</b>
	Master-Clip NEOPRENE
	Master-SANTO SL
	Master-SANTO L
	Master-SANTO H
	Master-NEO 1
	Master-NEO 2
	Master-Clip HYPALON
	Master-Clip VITON
	Master-SIL 1
	Master-SIL 2
<b>11</b>	<b>Temperature-Resistant Hoses f</b>
	Master-Clip SILICON
	Master-Clip ISO-SILICON
	Master-Clip CAR
	Master-Clip ISO-CAR
	Master-Clip HT 400

## Product Overview

<b>14</b>	<b>Electrically Heated Hose</b> templine® Heated Hose
<b>15</b>	<b>PU-Lined Pipes &amp; Pipe-Bends</b> Master-PROTECT Pipe-Bend Master-PROTECT Pipe Master-PROTECT Assembly Set
<b>16</b>	<b>Installation &amp; Connections</b> Clip-Grip Hose Clamp, screwable Clip-Grip Quick-Fix Clamp Master-Grip Hose Clamp, screwable Master-Grip Quick-Fix Clamp Car-Grip Hose Clamp, screwable Car-Grip Quick-Fix Clamp Hose Clamp with Worm-Gear Hose Clamp with Bolts Combiflex Clamp Connection Cl Combiflex Clamp Seal Ring Combiflex Clamp Connection Hi Combiflex Dairy Fitting Threade Combiflex Dairy Fitting Cone So Combiflex Dairy Fitting Ring Sea Combiflex PU Fixed Flange Combiflex PU Fixed Flange Inlin



# 1

## **Abrasion-Resistant Suction & Transport Hoses made from PU**

**Suction & transport hoses made from polyurethane, especially suitable for abrasive transport goods, excellent durability**



## Miniflex PU

PU Protection & Suction Hose with plastic-coated wire helix



**TOP TIP:**  
Also available as  
PVC & TPVse  
versions

### Material

wall: pure polyether polyurethane  
spiral: spring steel wire, plastic-coated  
wall thickness: 0,3 - 1,2mm, dep. on DN

### Applications

- Protective Hose against mechanical wear
- Cable protection Hose
- Protective & Suction Hose for solids, liquids and gases
- Suction Hose for fine-grained particles, e.g. dust, powders, fibres
- Ventilation (gauge pressure & low pressure range)
- Suction Hose for handheld machines

### Properties

- extremely flexible
- highly abrasion-resistant
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- protection class IP 68, EN 60 529
- axial flexible and compressable
- extremely lightweight
- Bending radius = outer diameter
- ageing-resistant

### Temperature Range

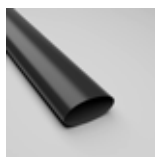
- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
7	0,23	7700	10	10	0,06	410-007-118	/
10	0,22	7600	14	14	0,11	410-010-118	50m
13	0,21	7550	17	17	0,13	410-013-118	/
15	0,2	7500	19	19	0,14	410-015-118	50m
16	0,2	7500	21	21	0,19	410-016-118	/
22	0,18	7350	27	27	0,24	410-022-118	50m
25	0,17	7250	30	30	0,31	410-025-118	/
30	0,15	7000	36	36	0,36	410-030-118	/
32	0,13	7000	38	38	0,44	410-032-118	25m
38	0,11	6750	45	45	0,59	410-038-118	25m
40	0,1	6750	47	47	0,61	410-040-118	/
44	0,09	6000	52	52	0,76	410-044-118	/
45	0,09	6000	53	53	0,76	410-045-118	/
48	0,08	5400	56	56	0,81	410-048-118	/
50	0,08	5250	58	58	0,83	410-050-118	25m

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes in blue, Ral 5015.  
 Available on request in other lengths, other sizes, in different colours  
 Subject to technical changes and colour deviations



Hose Clamp with  
Worm-Gear Drive



Heat-Shrink Cuff



## Master-PUR Step

PU Film Hose,  
crush-resistant, hardly  
inflammable acc. to  
DIN 4102 B1



### Material

wall: pure polyester polyurethane with flame-retardant additives (acc. to DIN ISO 4649 more abrasion-resistant than polyether polyurethane)

spiral: polyurethane, flame-retardant, with integrated wire

### Applications

- Suction & Transport Hose for abrasive solids, liquids and gases
- Ideal as Suction Hose for floor-level areas where conventional hoses are subjected to rough conditions and can be permanently deformed
- Wood processing
- Protective hose

### Properties

- generally good UV and ozone resistance
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- good flow characteristics
- crush-resistant
- excellent recovery properties
- hardly inflammable acc. to DIN 4102 B1
- withstands high mechanical loads
- abrasion-resistant
- super lightweight
- highly flexible

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
50	0,78	2050	50	68	0,39	311-050-618	10m
60	0,76	1900	65	80	0,45	311-060-618	/
75	0,61	1300	75	95	0,61	311-075-618	10m
80	0,53	1300	80	100	0,65	311-080-618	10m
100	0,46	950	100	120	0,8	311-100-618	10m
120	0,38	950	120	140	0,95	311-120-618	10m
140	0,3	650	140	160	1,15	311-140-618	/
150	0,3	650	150	170	1,2	311-150-618	10m
160	0,3	650	160	180	1,3	311-160-618	/

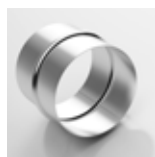
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Car-Grip Quick-Fix  
Clamp



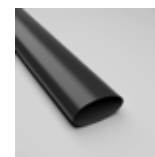
Car-Grip Hose Clamp,  
screwable



Hose Connector



PU Cuff, pre-fitted



Heat-Shrink Cuff

## Master-PUR L

PU Suction & Transport Hose, light duty

**NEW!**  
**Multifunction Hose:**  
**antistatic AND**  
**microbe-resistant**



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 0.7 mm

### Applications

- Suction/extraction of paper and textile fibres
- Transport of fine-grained particles, such as dust and powder
- Suction & Transport Hose for abrasive solids, liquids and gases
- Protective Hose against mechanical wear
- Oil mist extraction/suction

### Properties

- halogen and plasticizer-free
- extremely flexible
- light
- highly abrasion resistant
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance < 10<sup>9</sup> Ohm

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
25	3,22	8000	31	31	0,25	110-025-401	10m/15m
32	2,52	7250	40	40	0,35	110-032-401	10m/15m
38	2,1	6750	46	46	0,39	110-038-401	10m/15m
40	2,1	6750	48	48	0,4	110-040-401	10m/15m
45	1,84	6000	53	53	0,42	110-045-401	10m/15m
50	1,68	5250	58	58	0,45	110-050-401	10m/15m
55	1,54	4500	63	63	0,51	110-055-401	10m/15m
60	1,4	4500	68	68	0,53	110-060-401	10m/15m
65	1,26	3750	73	73	0,64	110-065-401	10m/15m
70	1,12	3750	78	78	0,68	110-070-401	10m/15m
75	1,12	3000	84	84	0,72	110-075-401	10m/15m
80	0,98	3000	88	88	0,76	110-080-401	10m/15m
90	0,84	2250	99	99	0,88	110-090-401	10m/15m
100	0,84	2250	110	110	0,95	110-100-401	10m/15m
110	0,7	2250	119	119	1,03	110-110-401	10m/15m
115	0,7	2250	124	124	1,06	110-115-401	10m/15m
120	0,7	2250	129	129	1,12	110-120-401	10m/15m
125	0,7	2250	135	135	1,18	110-125-401	10m/15m
130	0,56	2250	139	139	1,2	110-130-401	10m/15m
140	0,56	1500	149	149	1,38	110-140-401	10m/15m
150	0,56	1500	161	161	1,48	110-150-401	10m/15m
160	0,56	1500	170	170	1,74	110-160-401	10m/15m
170	0,42	1500	180	180	1,8	110-170-401	10m/15m
175	0,42	1500	185	185	1,85	110-175-401	10m/15m
180	0,42	1500	190	190	1,9	110-180-401	10m/15m
200	0,42	1500	214	214	2,3	110-200-401	10m/15m
225	0,28	750	235	235	2,55	110-225-401	10m/15m
250	0,28	750	260	260	3,02	110-250-401	10m/15m
275	0,28	750	284	284	3,11	110-275-401	10m
280	0,28	750	290	290	3,14	110-280-401	10m
300	0,25	675	310	310	3,2	110-300-401	10m
315	0,25	675	325	325	3,32	110-315-401	10m
325	0,25	675	335	335	3,4	110-325-401	10m
350	0,13	675	360	360	3,6	110-350-401	10m
375	0,13	525	386	386	3,85	110-375-401	/
400	0,13	525	410	411	4,45	110-400-401	10m
450	0,13	525	460	461	5,06	110-450-401	10m
500	0,13	525	510	511	5,7	110-500-401	10m

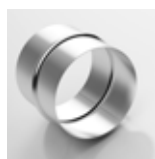
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



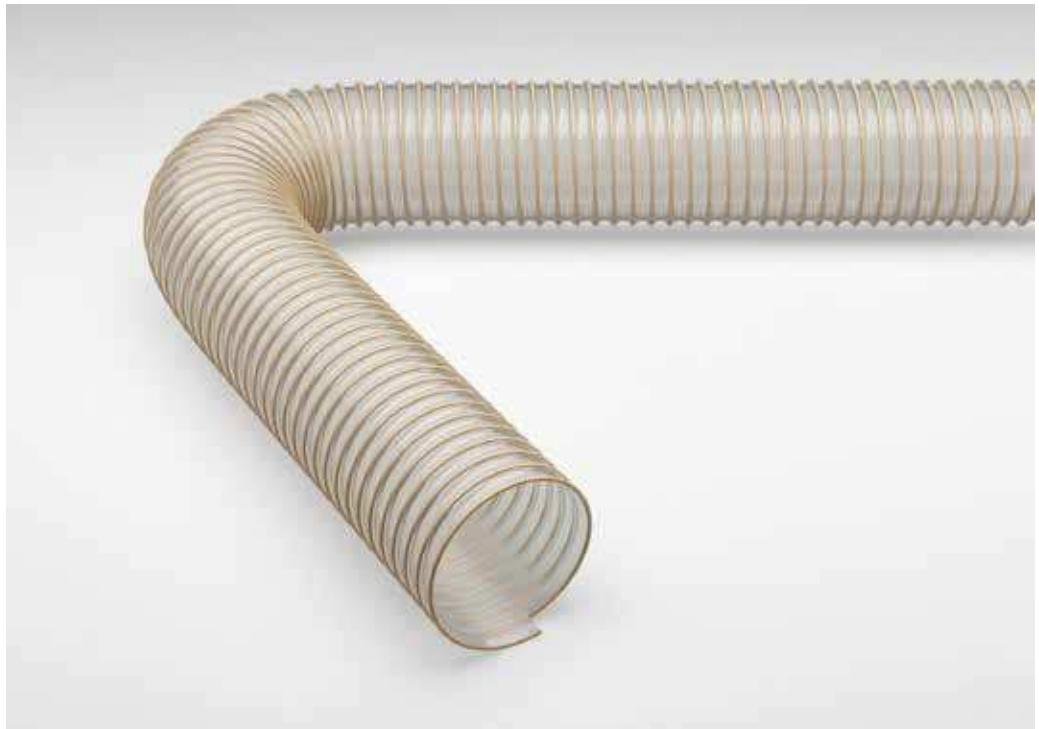
Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixe

## Master-PUR H

PU Suction & Transport Hose, medium duty



**NEW!**  
**Multifunction Hose:**  
**antistatic AND**  
**microbe-resistant**

### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 1.4 mm

### Applications

- Suction of coarse-grained media with high flow rate
- For abrasive solids, gaseous and liquid media
- Standard hose for industrial vacuum cleaners
- Granulate transport hose
- Transport of chips/shavings
- Suction and transport of paper fibres
- Oil mist extraction/suction

### Properties

- highly abrasion-resistant
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- extremely flexible, lightweight
- small bending radii
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance  $< 10^9$  Ohm

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
13	4,7	9400	38	19	0,15	111-013-401	10m/15m
16	4,5	9400	40	22	0,2	111-016-401	10m/15m
20	4,3	9400	43	26	0,22	111-020-401	10m/15m
25	4,16	9400	47	33	0,29	111-025-401	10m/15m
32	3,25	9400	60	41	0,39	111-032-401	10m/15m
38	3,12	8400	69	47	0,46	111-038-401	10m/15m
40	3	8350	72	49	0,49	111-040-401	10m/15m
45	2,95	8250	80	55	0,55	111-045-401	10m/15m
50	2,9	8000	87	61	0,71	111-050-401	10m/15m
55	2,75	7750	95	65	0,77	111-055-401	10m/15m
60	2,55	7500	102	70	0,84	111-060-401	10m/15m
65	2,4	6750	112	75	0,91	111-065-401	10m/15m
70	2,25	6750	117	80	0,97	111-070-401	10m/15m
75	2	6000	126	87	1,06	111-075-401	10m/15m
80	2	6000	132	91	1,11	111-080-401	10m/15m
90	1,65	5250	149	101	1,25	111-090-401	10m/15m
100	1,5	4500	165	112	1,48	111-100-401	10m/15m
110	1,35	4500	179	121	1,61	111-110-401	10m/15m
115	1,35	3125	186	126	1,68	111-115-401	10m/15m
120	1,3	3125	194	131	1,75	111-120-401	10m/15m
125	1,3	3125	203	138	1,91	111-125-401	10m/15m
130	1,3	3125	209	141	1,96	111-130-401	10m/15m
140	1,05	2500	224	151	2,11	111-140-401	10m/15m
150	1,05	2500	242	163	2,29	111-150-401	10m/15m
160	0,9	2500	255	171	2,51	111-160-401	10m/15m
170	0,9	1875	270	181	2,67	111-170-401	10m/15m
175	0,9	1875	278	186	2,74	111-175-401	10m/15m
180	0,75	1875	285	191	2,82	111-180-401	10m/15m
200	0,75	1875	321	215	3,3	111-200-401	10m/15m
225	0,6	1250	353	237	3,65	111-225-401	10m/15m
250	0,6	1250	390	263	3,84	111-250-401	10m/15m
275	0,45	1250	426	288	4,22	111-275-401	10m
280	0,45	1250	435	293	4,3	111-280-401	10m
300	0,45	1250	465	313	4,94	111-300-401	10m
315	0,45	1250	488	328	5,19	111-315-401	/
325	0,45	1250	503	338	5,35	111-325-401	10m
350	0,45	1250	540	363	6,96	111-350-401	10m
375	0,3	675	580	388	7,45	111-375-401	/
400	0,3	675	615	413	7,95	111-400-401	10m
450	0,3	675	690	463	8,94	111-450-401	10m
500	0,3	675	765	513	9,93	111-500-401	10m

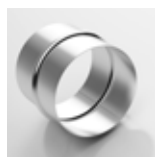
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff, electrocon-  
ductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixable

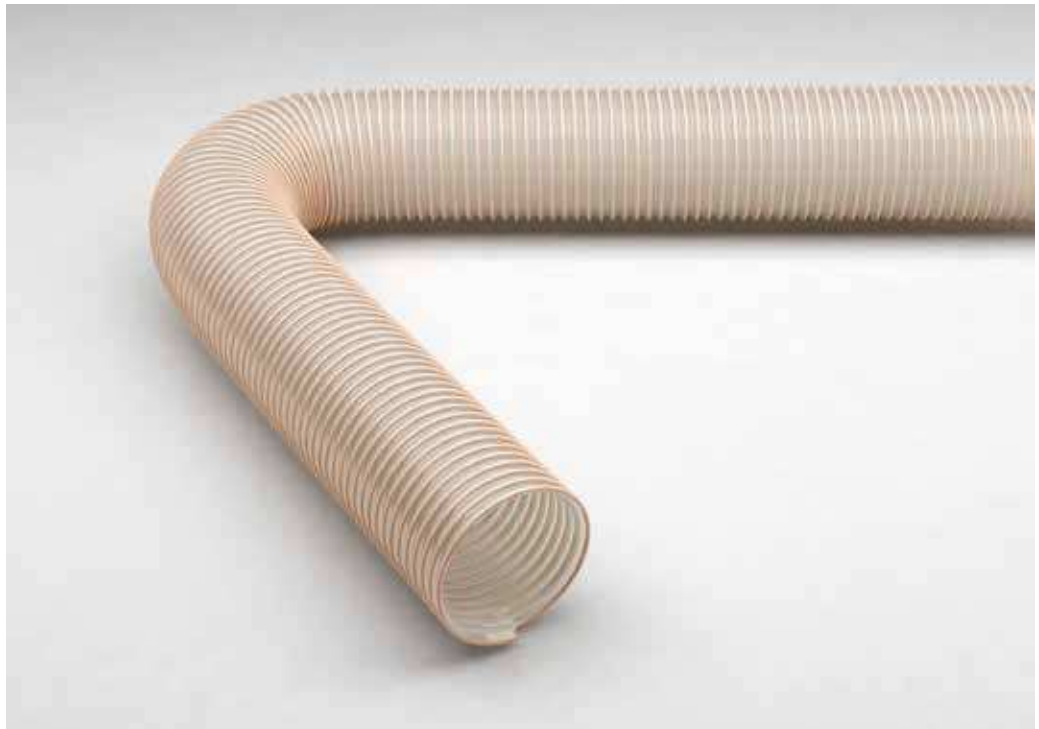
Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

## Master-PUR HÜ

PU Suction & Transport Hose, medium duty / reinforced

**NEW!**  
Multifunction Hose:  
antistatic AND  
microbe-resistant



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 1.7 - 2.1 mm depending on DN

### Applications

- Protective Hose against mechanical wear
- Special hose for dry suction vehicles
- Light, flexible head hose

### Properties

- highly abrasion-resistant
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- small bending radii
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- reinforced version of standard Master-PUR H
- extremely flexible
- light duty
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance <math>< 10^9 \text{ Ohm}</math>

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
100	1,77	6300	187	111	1,72	112-100-101	/
125	1,54	4375	230	137	2,18	112-125-101	10m
150	1,26	3625	275	162	2,38	112-155-101	/

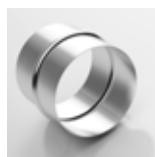
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Also available in reinforced version with 2.1mm wall thickness.  
 Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



Hose Clamp with Bolts



Combiflex PU Cone  
Flange



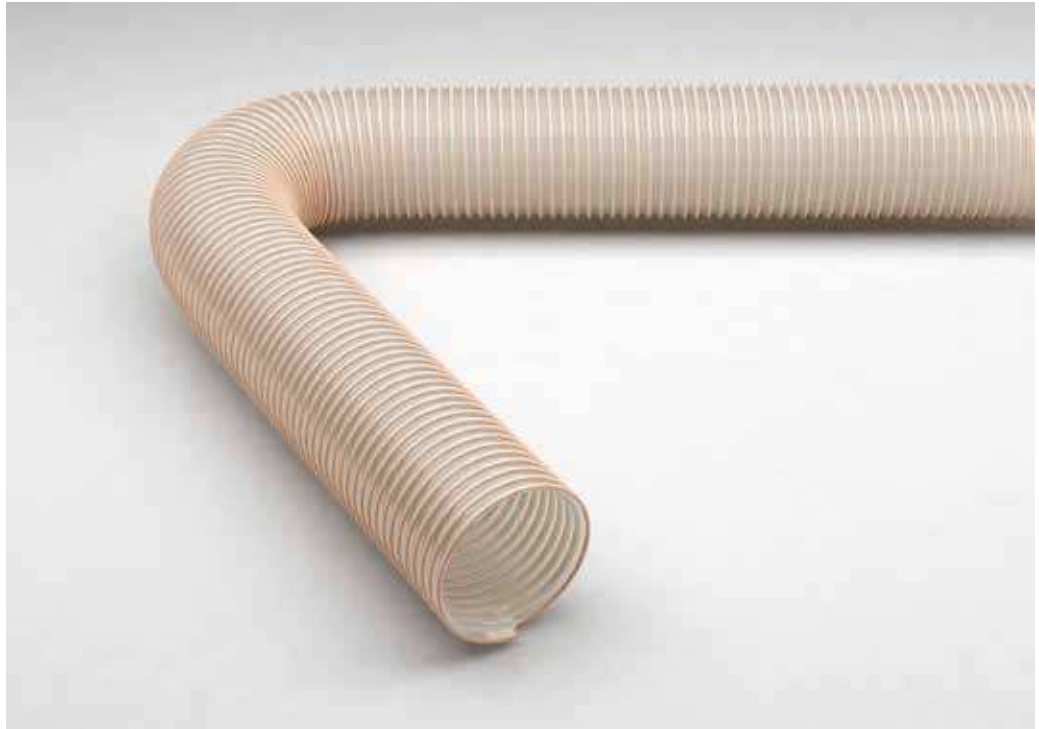
Combiflex PU  
Swivel Flange,  
screwable/fixe



## Master-PUR HÜ-S

PU Suction & Transport Hose, medium duty / reinforced, very smooth inner lining

**NEW!**  
**Multifunction Hose:**  
**antistatic AND**  
**microbe-resistant**



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 2.1 mm

### Applications

- Protective Hose against mechanical wear
- Special Transport Hose for the delivery of abrasive media
- Lightweight, flexible working hose

### Properties

- highly abrasion-resistant
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- small bending radii
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance < 10<sup>9</sup> Ohm
- reinforced version of standard version Master-PUR HÜ

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
100	2	7560	230	113	2,13	112-100-902	10m
125	1,6	5250	290	138	2,81	112-125-902	10m
150	1,45	4350	410	163	3,37	112-155-903	10m

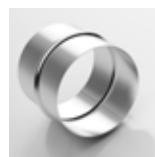
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



Hose Clamp with Bolts



Combiflex PU Cone  
Flange, screwable/  
pre-fixed



Combiflex PU Swivel  
Flange, screwable/  
pre-fixed

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

## Master-PUR HX

PU Transport & Suction Hose, highly abrasion-resistant and vacuum-proof, with reinforcement underneath the spiral

**NEW!**  
Multifunction Hose:  
antistatic AND  
microbe-resistant



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 1.7 - 2.1 mm, depending on DN

### Applications

- for increased requirements of abrasion resistance and durability
- Suction & Transport Hose for extremely abrasive media
- Flat roof gravelling
- Working Hose for silo vehicles and cargo depots
- Transport Hose for problematic media, e.g. sand, gravel, grain, granulates

### Properties

- halogen and plasticizer-free
- extremely abrasion-resistant via specific reinforcements underneath the spiral
- high vacuum and apex pressure resistance
- good flexibility
- smooth inner lining, optimum flow characteristics
- highly durable, long service lives
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance <math>< 10^9 \text{ Ohm}</math>

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
32	4,85	9600	80	42	0,66	114-032-101	10m/15m
38	4,39	9600	95	48	0,78	114-038-101	10m/15m
40	4,27	9600	100	50	0,83	114-040-101	10m/15m
45	4,1	9600	115	55	0,92	114-045-101	10m/15m
50	4	9600	125	61	1,04	114-050-101	10m/15m
55	3,75	9100	140	65	1,1	114-055-101	10m/15m
60	3,6	9100	150	70	1,2	114-060-101	10m/15m
65	3,3	9100	165	75	1,29	114-065-101	10m/15m
70	3,15	9100	175	80	1,38	114-070-101	10m/15m
75	2,92	9100	190	87	1,5	114-075-101	10m/15m
80	2,77	9100	200	93	1,93	114-080-101	10m/15m
90	2,4	9100	225	103	2,16	114-090-101	10m/15m
100	2,1	8900	250	115	2,6	114-100-101	10m/15m
110	1,95	8900	275	124	2,82	114-110-101	10m/15m
115	1,8	8900	290	129	2,94	114-115-101	10m/15m
120	1,65	8900	300	134	3,07	114-120-101	10m/15m
125	1,65	8900	315	140	3,44	114-125-101	10m/15m
130	1,65	8550	325	143	3,54	114-130-101	10m/15m
140	1,5	8460	350	153	3,81	114-140-101	10m/15m
150	1,5	8370	450	167	4,13	114-150-101	10m/15m
160	1,35	8280	500	175	4,81	114-160-101	10m/15m
170	1,2	8190	600	185	5,1	114-170-101	10m/15m
175	1,2	8100	650	190	5,25	114-175-101	10m/15m
180	1,2	7830	700	195	5,4	114-180-101	10m/15m
200	1,05	6750	950	220	6,43	114-200-101	10m/15m
225	0,9	5940	1150	241	7,11	114-225-101	10m
250	0,9	5220	1300	267	7,91	114-250-101	10m
275	0,75	4770	1450	292	8,68	114-275-101	10m
300	0,6	4320	1600	317	9,45	114-300-101	10m

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with Bolts

Combiflex PU Cone  
FlangeCombiflex PU Fixed  
FlangeCombiflex PU  
Threaded SocketCombiflex PU Swivel  
Flange, screwable/  
fixed

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

## Master-PUR HX-S

PU Suction & Transport Hose, highly abrasion-resistant and vacuum-proof, very smooth inner lining

**NEW!**  
Multifunction Hose:  
antistatic AND  
microbe-resistant



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 3.5 mm

### Applications

- Suction & Transport Hose for quarries, cement works, shipyards and docks
- Flat roof gravelling
- Working Hose for silo vehicles and cargo depots
- Refurbishment of rail systems
- Roof green covering
- Vacuum/suction vehicles
- Transport of glass wool, mineral wool, slag, mill scale and sinter

### Properties

- high vacuum and apex pressure resistance
- highly durable, long service lives
- good chemical resistance
- generally good UV and ozone resistance
- free of halogens and plasticizers
- gas-tight
- high tensile strength
- optimum flow characteristics
- extremely abrasion-resistant
- smooth inner lining
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance  $< 10^9$  Ohm

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR HX-S

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
50	4,85	9600	150	64	1,3	117-050-101	/
75	4,15	9600	225	89	2,1	117-075-101	10m
100	3,15	9600	300	114	3,2	117-100-101	/
125	2,55	9600	325	140	3,9	117-125-101	/
150	2,25	9600	350	165	5,1	117-150-101	10m

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with Bolts

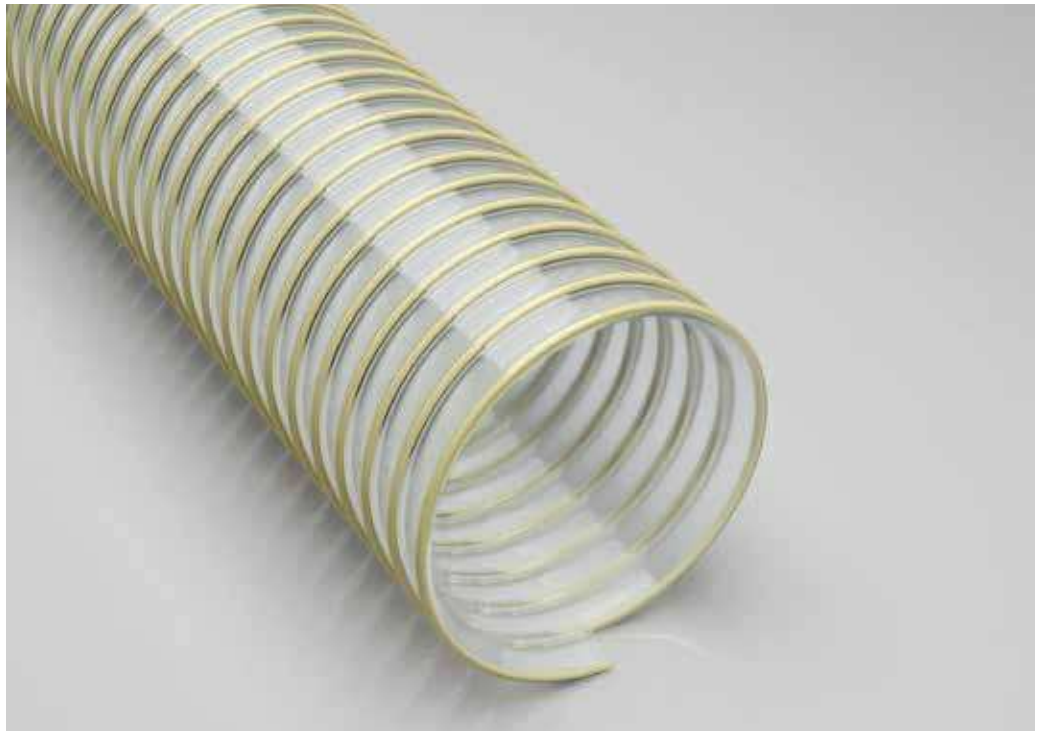
Combiflex PU Fixed  
FlangeCombiflex PU  
Threaded SocketCombiflex PU Swivel  
Flange, screwable/  
pre-fixedCombiflex PU Cone  
Flange, screwable/  
pre-fixed

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

## Cargoflex

PU Suction & Transport hose, extremely abrasion-resistant and vacuum-proof



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 3.2 - 4.8 mm depending on DN

### Applications

- Suction/extraction of glass splinters, glass wool, mineral wool, slag, mill scale and sinter
- Suction & Transport Hose for quarries, cement works, shipyards and docks
- for highest standards of abrasion resistance and durability
- Transport hose for handling and conveying plants
- Refurbishment of rail systems
- Transport of gravel and rocks
- Suction & Transport Hose for the most extreme fields of application
- Protective Hose against mechanical wear

### Properties

- very good flexibility
- high vacuum and good pressure resistance
- highly durable, long service lives
- extremely abrasion-resistant, extra strong PU lining
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- high tensile strength

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
100	3,15	8900	300	117	3,04	115-100-101	10m
125	2,55	8900	375	143	3,75	115-125-101	10m
150	2,25	8370	450	168	4,45	115-150-101	10m
200	1,65	6750	600	222	8,28	115-200-101	10m
250	1,35	5220	750	275	10,36	115-250-101	10m

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with Bolts



Combiflex PU Fixed  
Flange



Combiflex PU  
Threaded Socket



Combiflex PU Swivel  
Flange, screwable/  
pre-fixed



Combiflex PU Cone  
Flange, screwable/  
pre-fixed



## Master-PUR Inline

PU Suction & Transport Hose, extremely abrasion-resistant, vacuum-proof, seamless, very smooth inner lining

**NEW!**  
**Multifunction Hose:**  
**antistatic AND**  
**microbe-resistant**



### Material

spiral: spring steel wire

wall: pure polyurethane

Inline: application-optimised polyurethane, 4mm thick, 60 ° Shore A

### Applications

- Transport Hose for problematic media, e.g. sand, gravel, grain, granulates
- Everywhere where easy-to-clean surfaces are required
- Special hose for transport of extremely abrasive media
- Transport hose for feeding and cleaning of glass works, mineral processing plants, steelworks, quarries, shipyards and docks, cement works, flat roof gravelling
- Other conveyer and loading plants

### Properties

- high vacuum and good pressure resistance
- good chemical resistance
- extremely abrasion-resistant, extra strong PU Inline
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- high tensile strength
- completely smooth internal lining, therefore ideal flow characteristics
- flexible
- microbe-resistant
- antistatic, surface resistance < 10<sup>9</sup> Ohm

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. bar mmWC	bend radius c. mm	outer Ø c. mm	weight c. kg/m	article no.	stock length
38	4,65	9600	130	56	1,72	119-038-104	/
40	4,5	9600	135	58	1,79	119-040-104	/
50	4,125	9600	170	69	1,61	119-050-104	/
51	4,125	9600	170	70	1,64	119-051-104	10m
65	3,9	9600	190	85	2,02	119-065-104	10m
75	3,75	9600	250	96	3,4	119-075-104	/
76	3,75	9600	250	97	3,44	119-076-104	/
80	3,375	9600	270	99	2,69	119-080-104	/
100	3	9600	300	122	4,31	119-100-104	/
102	3	9600	300	122	4,39	119-102-104	10m
115	2,6	9600	330	136	4,9	119-115-104	/
125	2,4	9600	350	146	5,6	119-125-104	/
127	2,4	9600	350	148	5,69	119-127-104	10m
150	1,95	9600	400	175	7,3	119-150-104	/
152	1,95	9600	400	175	7,3	119-152-104	10m
175	1,8	7825	600	198	7,48	119-175-104	/
180	1,65	7600	700	202	7,68	119-180-104	/
200	1,35	6860	800	223	10,01	119-200-104	/
204	1,35	6850	800	227	10,2	119-204-104	/
250	0,95	5100	1000	271	12,07	119-250-104	10m

All data refers to a media and ambient temperature of +20 °C  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with Bolts



Combiflex PU fixed-flange, Inline



Combiflex metal male threaded socket



Combiflex PU Swivel Flange for Master-PUR Inline



Klemmschalen

## Polderflex PUR

**PU Suction & Transport Hose, extremely pressure and vacuum-proof, smooth inner and outer linings**



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness 3-5 mm depending on DN

### Applications

- Suction/extraction of glass splinters, glass wool, mineral wool, slag, mill scale and sinter
- Suction & Transport Hose for quarries, cement works, shipyards and docks
- Working Hose for silo vehicles and cargo depots
- for highest standards of abrasion resistance and durability
- Transport hose for handling and conveying plants
- Refurbishment of rail systems
- Transport of gravel and rocks
- Suction & Transport Hose for the most extreme fields of application

### Properties

- very good flexibility
- high vacuum and good pressure resistance
- highly durable, long service lives
- extremely abrasion resistant, extra strong PU lining
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- high tensile strength
- smooth inner and outer linings

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
32	5,75	9500	160	41,5	0,88	118-032-101	10m
38	5,625	9500	190	47,5	1,03	118-038-101	10m
40	5,5	9500	200	49,5	1,07	118-040-101	/
45	5,375	9500	225	54,5	1,2	118-045-101	/
50	5,25	9500	250	62,5	1,25	118-050-101	10m
60	5,125	9500	300	71,5	1,44	118-060-101	10m
65	5,1	9500	325	76,5	1,56	118-065-101	/
70	5,05	9500	350	81,5	1,77	118-070-101	/
75	5	9500	380	87,5	1,92	118-075-101	/
80	4,5	9000	400	91,5	2,01	118-080-101	/
100	4,125	8750	600	113	3,1	118-100-101	/
125	3,25	6500	700	138,5	3,85	118-125-101	/
150	2,125	4250	800	164	4,59	118-150-101	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with Bolts

Metal socket with  
cone flange

## Master-PUR Flat L Food

Spiral-Free PU  
Transport Hose,  
light duty,  
Food-Grade Quality  
(FDA)



### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

wall thickness approx. 1.0 mm

### Applications

- Application as compensator
- Spiral-Free Transport Hose for abrasive solids
- Solids transport for sieving machines
- Conductor hose on charging station

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

### Properties

- extremely flexible
- highly abrasion-resistant
- generally good UV and ozone resistance
- free of halogens and plasticizers
- high tensile strength
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- microbe and hydrolysis-resistant
- smooth inner lining
- extremely vibration-resistant
- permanently kink-resistant
- solvent, oil and petroleum proof
- gas/watertight
- when applying the special design with integrated earthing strands
- Hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- Materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

## Master-PUR Flat L Food

DN	weight c. kg/m	article no.	stock length				
50	0,23	313-050-501	/				
60	0,28	313-060-501	/				
63	0,29	313-063-501	/				
65	0,29	313-065-501	/				
70	0,32	313-070-501	/				
75	0,34	313-075-501	/				
80	0,36	313-080-501	5m				
90	0,41	313-090-501	/				
100	0,44	313-100-501	5m				
110	0,47	313-110-501	/				
115	0,49	313-115-501	/				
120	0,52	313-120-501	/				
125	0,53	313-125-501	5m				
130	0,55	313-130-501	/				
140	0,59	313-140-501	/				
150	0,64	313-150-501	5m				
160	0,68	313-160-501	/				
170	0,72	313-170-501	/				
175	0,75	313-175-501	/				
180	0,77	313-180-501	/				
200	0,82	313-200-501	5m				
225	0,92	313-225-501	/				
250	1,03	313-250-501	5m				
275	1,13	313-275-501	/				
280	1,14	313-280-501	/				
300	1,23	313-300-501	5m				

All data refers to a media and ambient temperature of +20 °C  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes, colours, with print, with flexible earthing lead.  
 Subject to technical changes and colour deviations.



Hose Clamp with  
Worm-Gear Drive



Hose Clamp with Bolts

## Master-PUR Flat H Food

Spiral-Free PU  
Transport Hose,  
medium duty,  
Food-Grade Quality  
(FDA)



### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

wall thickness approx. 1.5 mm

### Applications

- Application as compensator
- Spiral-Free Transport Hose for abrasive solids
- Solids transport for sieving machines
- Conductor hose on charging station

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

### Properties

- extremely flexible
- highly abrasion-resistant
- generally good UV and ozone resistance
- free of halogens and plasticizers
- high tensile strength
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- microbe and hydrolysis-resistant
- smooth inner lining
- extremely vibration-resistant
- permanently kink-resistant
- solvent, oil and petroleum-proof
- gas/watertight
- when applying the special design with integrated earthing strands
- Hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- Materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

DN	weight c. kg/m	article no.	stock length				
50	0,32	314-050-501	/				
60	0,38	314-060-501	/				
63	0,39	314-063-501	/				
65	0,4	314-065-501	/				
70	0,43	314-070-501	/				
75	0,46	314-075-501	/				
80	0,49	314-080-501	5m				
90	0,56	314-090-501	/				
100	0,62	314-100-501	5m				
110	0,67	314-110-501	/				
115	0,7	314-115-501	/				
120	0,73	314-120-501	/				
125	0,76	314-125-501	5m				
130	0,78	314-130-501	/				
140	0,85	314-140-501	/				
150	0,91	314-150-501	5m				
160	0,97	314-160-501	/				
170	1,03	314-170-501	/				
175	1,06	314-175-501	/				
180	1,09	314-180-501	/				
200	1,21	314-200-501	5m				
225	1,36	314-225-501	/				
250	1,51	314-250-501	5m				
275	1,66	314-275-501	/				
280	1,68	314-280-501	/				
300	1,81	314-300-501	/				

All data refers to a media and ambient temperature of +20 °C  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes, colours, with print, with flexible earthing lead.  
 Subject to technical changes and colour deviations.



Hose Clamp with  
Worm-Gear Drive



Hose Clamp with Bolts



## Master-PUR Flat HX Food

Spiral-Free PU  
Transport Hose,  
heavy duty,  
Food-Grade Quality  
(FDA)



### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

wall thickness approx. 2.0 mm

### Applications

- Application as compensator
- Spiral-Free Transport Hose for abrasive solids
- Solids transport for sieving machines
- Conductor hose on charging station

### Properties

- extremely flexible
- highly abrasion-resistant
- generally good UV and ozone resistance
- free of halogens and plasticizers
- high tensile strength
- optimum flow characteristics
- microbe and hydrolysis-resistant
- smooth inner lining
- extremely vibration-resistant
- permanently kink-resistant
- solvent, oil and petroleum-proof
- gas/watertight
- Hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- Materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR Flat HX Food

DN	weight c. kg/m	article no.	production lengths				
50	0,4	315-050-501	5m				
60	0,48	315-060-501	5m				
63	0,49	315-063-501	5m				
65	0,51	315-065-501	5m				
70	0,54	315-070-501	5m				
75	0,58	315-075-501	5m				
80	0,62	315-080-501	5m				
90	0,7	315-090-501	5m				
100	0,78	315-100-501	5m				
110	0,84	315-110-501	5m				
115	0,88	315-115-501	5m				
120	0,93	315-120-501	5m				
125	0,96	315-125-501	5m				
130	0,99	315-130-501	5m				
140	1,07	315-140-501	5m				
150	1,15	315-150-501	5m				
160	1,23	315-160-501	5m				
170	1,3	315-170-501	5m				
175	1,34	315-175-501	5m				
180	1,38	315-180-501	5m				
200	1,53	315-200-501	5m				
225	1,72	315-225-501	5m				
250	1,92	315-250-501	5m				
275	2,1	315-275-501	5m				
280	2,13	315-280-501	5m				
300	2,29	315-300-501	5m				

All data refers to a media and ambient temperature of +20 °C  
 Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.  
 Subject to technical changes and colour deviations.



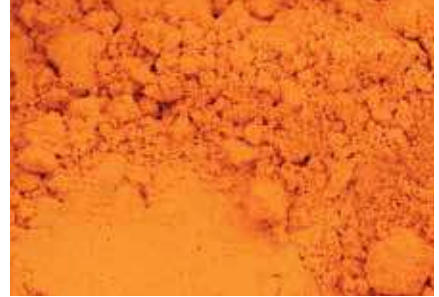
Hose Clamp with  
Worm-Gear Drive



Hose Clamp with Bolts

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist



# 2

## **Suction & Transport Hoses made from PVC/EVA**

**Suction & transport hoses made from PVC offer good chemical resistance. Hoses made from EVA are very lightweight, robust and crush-resistant**



### Miniflex PVC

PVC Protective & Suction Hose with plastic-coated wire helix



#### Material

spiral: spring steel wire, plastic-coated  
wall: soft PVC  
wall thickness: 0.3 - 1.2mm, dep. on DN

#### Applications

- Protective Hose against mechanical wear
- Cable protection hose
- Protective & Suction Hose for solids, liquids and gases
- Suction Hose for fine-grained particles, e.g. dust, powders, fibres
- Ventilation (gauge pressure & low pressure range)
- Suction Hose for handheld machines

#### Properties

- extremely flexible
- light
- good chemical resistance
- generally good UV and ozone resistance
- protection class IP 68, EN 60 529
- axial flexible and compressable
- Bending radius = outer diameter
- good oil/alkali/acid resistance
- air/watertight

#### Temperature Range

- -20°C to +70°C
- peaks to +80°C

DN	op. pressure c. bar	vacuum c. bar mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	production lengths
7	0,23	7700	10	10	0,06	440-007-102	50m
10	0,22	7600	14	14	0,12	440-010-102	50m
13	0,21	7550	17	17	0,13	440-013-102	50m
15	0,2	7500	19	19	0,14	440-015-102	50m
16	0,2	7500	21	21	0,18	440-016-102	50m
22	0,18	7350	27	27	0,25	440-022-102	50m
25	0,17	7250	30	30	0,32	440-025-102	50m
30	0,15	7000	36	36	0,38	440-030-102	25m
32	0,13	7000	38	38	0,46	440-032-102	25m
38	0,11	6750	45	45	0,61	440-038-102	25m
40	0,1	6750	47	47	0,63	440-040-102	25m
44	0,09	6000	52	52	0,79	440-044-102	25m
45	0,09	6000	53	53	0,8	440-045-102	25m
48	0,08	5400	56	56	0,84	440-048-102	25m
50	0,08	5250	58	58	0,87	440-050-102	25m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.

Subject to technical changes and colour deviations



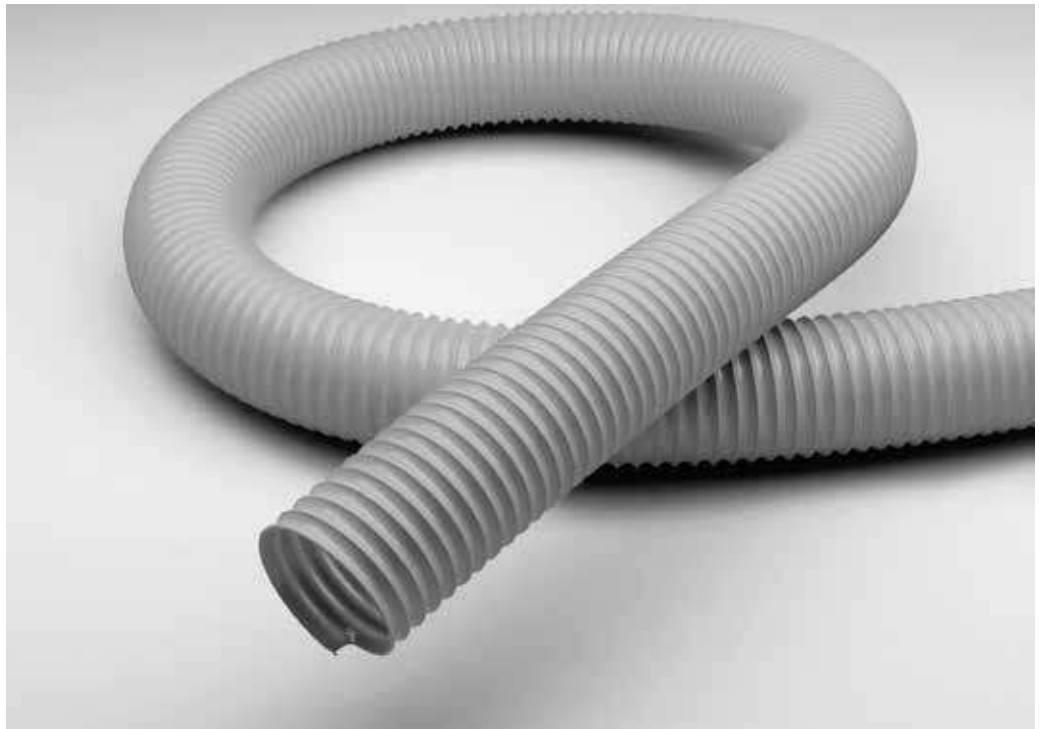
Hose Clamp with  
Worm-Gear Drive



Heat-Shrink Cuff

### Master-PVC L

PVC Suction & Transport Hose, light duty



#### Material

spiral: spring steel wire  
wall: soft PVC  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Transport of fine-grained particles, such as dust and powder
- Protective hose
- Liquid drainage
- Suction and transport hose for solid, liquid and gaseous media
- Ventilation and air-conditioning systems

#### Properties

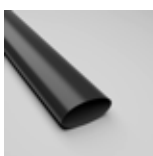
- extremely flexible
- light
- smallest bending radii
- good chemical resistance
- gas-tight
- mostly smooth inner lining
- optimum flow characteristics
- RoHs conformal
- good oil/alkali/acid resistance
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust and gases

#### Temperature Range

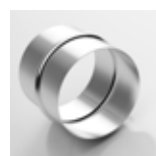
- -20°C to +70°C
- peaks to +80°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
38	0,84	6750	46	46	0,41	140-038-102	/
40	0,84	6750	48	48	0,42	140-040-102	10m/15m
45	0,74	6000	53	53	0,44	140-045-102	/
50	0,67	5250	58	58	0,48	140-050-102	10m/15m
55	0,62	4500	63	63	0,54	140-055-102	/
60	0,56	4500	68	68	0,56	140-060-102	10m/15m
65	0,5	3750	73	73	0,68	140-065-102	/
70	0,45	3750	78	78	0,72	140-070-102	10m/15m
75	0,45	3000	84	84	0,76	140-075-102	10m/15m
80	0,39	3000	88	88	0,8	140-080-102	10m/15m
90	0,34	2250	99	99	0,93	140-090-102	10m/15m
100	0,34	2250	110	110	1	140-100-102	10m/15m
110	0,28	2250	119	119	1,09	140-110-102	10m/15m
115	0,28	2250	124	124	1,12	140-115-102	/
120	0,28	2250	129	129	1,18	140-120-102	10m/15m
125	0,28	2250	135	135	1,25	140-125-102	10m/15m
130	0,22	2250	139	139	1,27	140-130-102	/
140	0,22	1500	149	149	1,46	140-140-102	10m/15m
150	0,22	1500	161	161	1,56	140-150-102	10m/15m
160	0,22	1500	170	170	1,84	140-160-102	10m/15m
170	0,17	1500	180	180	1,9	140-170-102	/
175	0,17	1500	185	185	1,95	140-175-102	/
180	0,17	1500	190	190	2,01	140-180-102	10m/15m
200	0,17	1500	214	214	2,43	140-200-102	10m/15m
225	0,11	750	235	235	2,69	140-225-102	/
250	0,11	750	260	260	3,19	140-250-102	10m/15m
275	0,11	750	284	284	3,28	140-275-102	/
300	0,1	675	310	310	3,38	140-300-102	/
315	0,1	675	325	325	3,5	140-315-102	/
325	0,1	675	335	335	3,59	140-325-102	/
350	0,05	675	360	360	3,8	140-350-102	/
400	0,05	525	410	411	4,7	140-400-102	/
450	0,05	525	460	461	5,34	140-450-102	/
500	0,05	525	510	511	6,02	140-500-102	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations



Heat-Shrink Cuff

Master-Grip Hose  
Clamp, screwableMaster-Grip Quick-Fix  
Clamp

Hose Connector

Hose Reducer,  
symmetrical

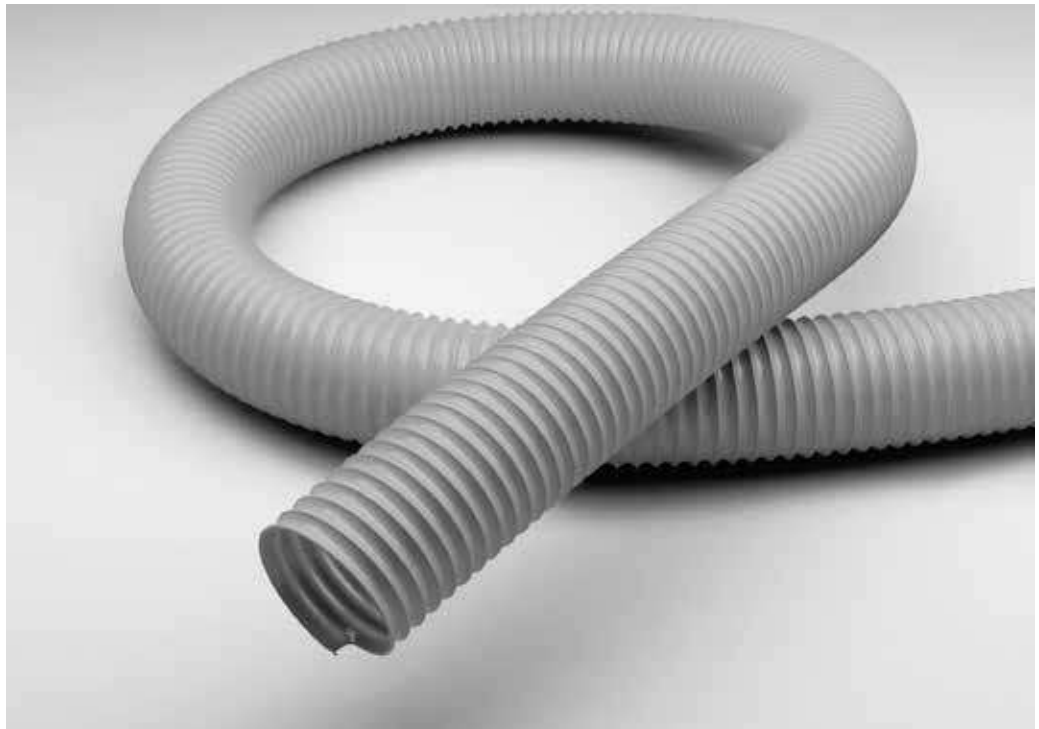
Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist



### Master-PVC L-F

PVC Film/Foil Hose,  
light duty,  
highly flexible



#### Material

spiral: spring steel wire, plastic-coated

wall: soft PVC

Film thickness between spirals approx.

0.5 - 0.8 mm, dep. on DN size

#### Applications

- Transport of fine-grained particles, such as dust and powder
- Protective hose
- Liquid drainage
- Suction and transport hose for solid, liquid and gaseous media
- Ventilation and air-conditioning systems
- Dust removal
- Apparatus construction
- Spinning fibre extraction

#### Properties

- extremely flexible
- light
- smallest bending radii
- good chemical resistance
- gas-tight
- mostly smooth inner lining
- optimum flow characteristics
- good oil/alkali/acid resistance
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust and gases

#### Temperature Range

- -20°C to +70°C
- peaks to +80°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	pro- duction lengths
20	1,9	5500	20	24	0,143	662-020-102	10m/15m
22	1,8	5000	22	26	0,149	662-022-102	10m/15m
25	1,7	4800	25	30	0,171	662-025-102	10m/15m
28	1,65	4500	28	33	0,192	662-028-102	10m/15m
30	1,6	4500	30	35	2,05	662-030-102	10m/15m
32	1,55	4100	32	37	0,219	662-032-102	10m/15m
35	1,5	3700	35	40	0,239	662-035-102	10m/15m
38	1,43	3400	38	43	0,249	662-038-102	10m/15m
40	1,4	3000	40	45	0,26	662-040-102	10m/15m
45	1,32	2800	45	50	0,275	662-045-102	10m/15m
50	1,3	2800	50	56	0,306	662-050-102	10m/15m
55	1,2	2500	55	61	0,455	662-055-102	10m/15m
60	1,1	2500	60	66	0,516	662-060-102	10m/15m
65	1	2200	65	71	0,455	662-065-102	10m/15m
70	0,9	2200	70	76	0,58	662-070-102	10m/15m
75	0,8	2000	75	81	0,645	662-075-102	10m/15m
80	0,77	1800	80	86	0,662	662-080-102	10m/15m
90	0,7	1700	90	96	0,745	662-090-102	10m/15m
100	0,6	1500	100	107	0,826	662-100-102	10m/15m
110	0,57	1400	110	117	0,889	662-110-102	10m/15m
115	0,51	1400	115	122	0,943	662-115-102	10m/15m
120	0,45	1300	120	127	0,97	662-120-102	10m/15m
125	0,4	1200	125	132	1,032	662-125-102	10m/15m
130	0,35	1200	130	137	1,051	662-130-102	10m/15m
140	0,3	1100	140	147	1,132	662-140-102	10m/15m
150	0,25	1100	150	157	1,238	662-150-102	10m/15m
160	0,25	1000	240	168	1,64	662-160-102	10m/15m
170	0,25	1000	255	178	1,742	662-170-102	10m/15m
175	0,25	1000	265	183	1,898	662-175-102	10m/15m
180	0,22	1000	285	188	1,945	662-180-102	10m/15m
200	0,2	1000	300	208	2,165	662-200-102	10m/15m
215	0,2	900	325	223	2,254	662-215-102	10m/15m
225	0,15	800	340	233	2,306	662-225-102	10m/15m
250	0,12	700	375	259	2,56	662-250-102	10m/15m
275	0,1	600	415	284	2,816	662-275-102	10m/15m
300	0,08	600	450	309	3,072	662-300-102	10m/15m
315	0,08	500	475	324	3,277	662-315-102	10m/15m
325	0,08	500	490	334	3,328	662-325-102	10m/15m
350	0,06	400	525	359	3,584	662-350-102	10m/15m
375	0,06	300	565	384	3,84	662-375-102	10m/15m
400	0,05	200	600	409	4,096	662-400-102	10m/15m

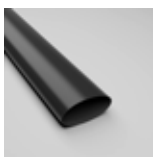
All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Order-based production in the above listed sizes and lengths, in grey or transparent. Delivery approx. 10 working days.

Available on request in other lengths, sizes and colours, with print.

Subject to technical changes and colour deviations.



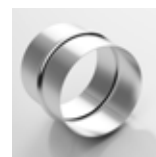
Heat-Shrink Cuff



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



Hose Reducer,  
symmetrical

### Master-PVC L-F EL

PVC Film/Foil Hose,  
light duty,  
electroconductive,  
<10<sup>6</sup>Ohm



#### Material

spiral: spring steel wire, plastic-coated  
wall: soft PVC, electrically conductive  
Film thickness between spirals approx. 0.5mm

#### Applications

- Transport of fine-grained particles, such as dust and powder
- Suction and transport hose for solid, liquid and gaseous media
- Apparatus construction
- Danger zones, which require electrically conductive hoses
- Chemicals

#### Properties

- extremely flexible
- light
- smallest bending radii
- good chemical resistance
- mostly smooth inner lining
- good oil/alkali/acid resistance
- surface resistance < 10<sup>6</sup> Ohm
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- axial compressable

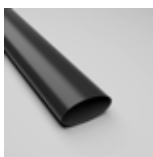
#### Temperature Range

- -20°C to +70°C
- peaks to +80°C

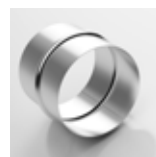
## Master-PVC L-F EL

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
50	0,7	1950	30	57	0,33	340-050-207	10m
60	0,68	1900	35	68	0,39	340-060-207	/
63	0,65	1750	37	70	0,41	340-063-207	/
65	0,61	1600	38	72	0,42	340-065-207	/
70	0,55	1300	40	77	0,45	340-070-207	/
75	0,52	1300	43	82	0,48	340-075-207	/
80	0,48	1300	45	87	0,51	340-080-207	10m
90	0,41	950	50	98	0,58	340-090-207	/
100	0,38	950	55	109	0,64	340-100-207	10m
110	0,34	950	60	117	0,69	340-110-207	10m
115	0,34	950	63	122	0,72	340-115-207	/
120	0,32	950	65	128	0,76	340-120-207	/
125	0,32	950	68	133	0,78	340-125-207	10m
130	0,27	950	70	136	0,81	340-130-207	/
140	0,27	650	75	147	0,87	340-140-207	/
150	0,27	650	80	158	0,94	340-150-207	/
160	0,21	650	85	170	1,14	340-160-207	10m
170	0,21	650	90	180	1,21	340-170-207	/
175	0,21	650	93	185	1,24	340-175-207	/
180	0,21	650	95	190	1,28	340-180-207	/
200	0,21	650	105	210	1,42	340-200-207	10m
225	0,14	300	118	235	1,59	340-225-207	/
250	0,14	300	130	261	1,77	340-250-207	/
275	0,13	300	143	285	1,94	340-275-207	/
280	0,13	300	145	290	1,97	340-280-207	/
300	0,13	285	155	311	2,11	340-300-207	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths and sizes with print.  
 Subject to technical changes and colour deviations.



Heat-Shrink Cuff

Master-Grip Hose  
Clamp, screwableMaster-Grip Quick-Fix  
Clamp

Hose Connector

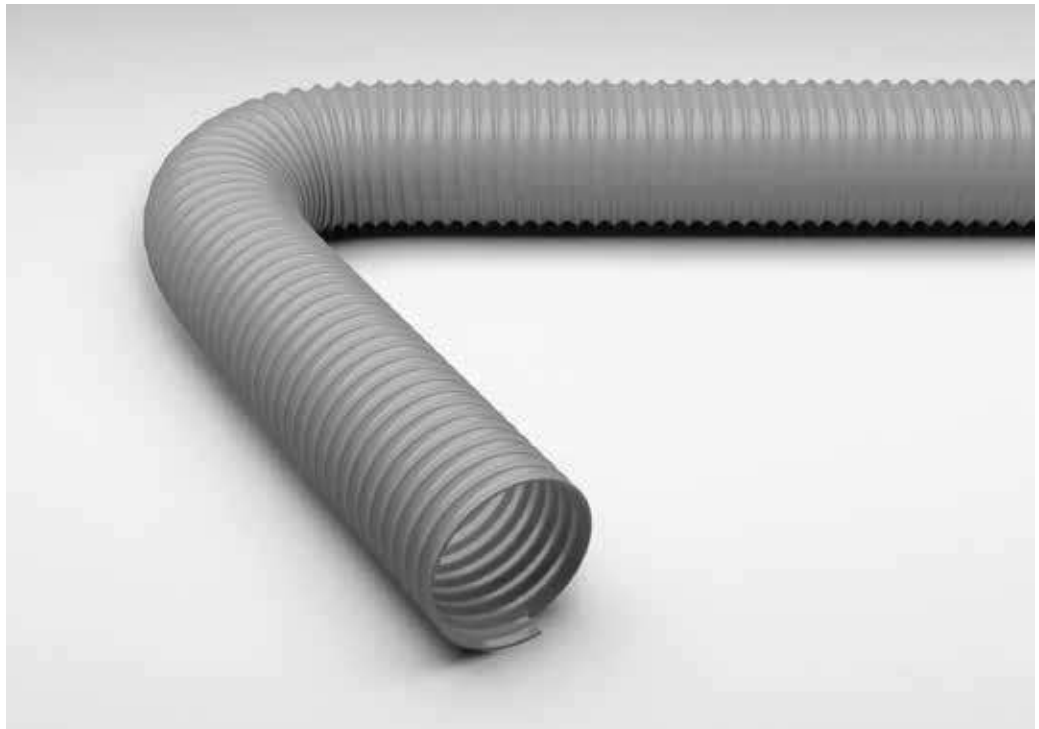
Hose Reducer,  
symmetrical

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

## Master-PVC H

PVC Suction & Transport Hose, medium duty



### Material

spiral: spring steel wire  
wall: soft PVC  
wall thickness between spirals approx. 1.4 mm

### Applications

- Transport of fine-grained particles, such as dust and powder
- Protective hose
- Liquid drainage
- Suction and transport hose for solid, liquid and gaseous media
- Ventilation and air-conditioning systems

### Properties

- good chemical resistance
- gas-tight
- small bending radii
- increased pressure and vacuum resistance
- mostly smooth inner lining
- optimum flow characteristics
- RoHs conformal
- extremely flexible
- lightweight
- good oil/alkali/acid resistance
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust and gases

### Temperature Range

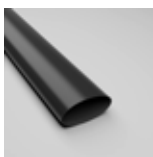
- -20°C to +70°C
- peaks to +80°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	pro- duction lengths
32	1,63	9400	60	41	0,48	141-032-102	10m/15m
38	1,56	8400	69	47	0,55	141-038-102	10m/15m
40	1,5	8350	72	49	0,56	141-040-102	10m/15m
45	1,48	8250	80	55	0,64	141-045-102	10m/15m
50	1,45	8000	87	61	0,76	141-050-102	10m/15m
55	1,38	7750	95	65	0,82	141-055-102	10m/15m
60	1,27	7500	102	70	0,88	141-060-102	10m/15m
65	1,2	6750	110	75	0,96	141-065-102	10m/15m
70	1,13	6750	117	80	1,04	141-070-102	10m/15m
75	1	6000	126	87	1,11	141-075-102	10m/15m
80	1	6000	132	91	1,2	141-080-102	10m/15m
90	0,83	5250	149	101	1,29	141-090-102	10m/15m
100	0,75	4500	165	112	1,4	141-100-102	10m/15m
110	0,68	4500	179	121	1,5	141-110-102	10m/15m
115	0,68	3125	186	126	1,56	141-115-102	10m/15m
120	0,65	3125	194	131	1,61	141-120-102	10m/15m
125	0,65	3125	203	138	1,75	141-125-102	10m/15m
130	0,65	3125	209	141	1,8	141-130-102	10m/15m
140	0,53	2500	224	151	1,93	141-140-102	10m/15m
150	0,53	2500	242	163	2,06	141-150-102	10m/15m
160	0,45	2500	255	171	2,39	141-160-102	10m/15m
170	0,45	1875	270	181	2,59	141-170-102	10m/15m
175	0,45	1875	278	186	2,7	141-175-102	10m/15m
180	0,38	1875	285	191	2,8	141-180-102	10m/15m
200	0,38	1875	321	215	3,1	141-200-102	10m/15m
225	0,3	1250	353	237	3,44	141-225-102	10m/15m
250	0,3	1250	390	263	4,23	141-250-102	10m/15m
275	0,28	1250	426	288	4,93	141-275-102	10m
300	0,28	1250	465	313	5,37	141-300-102	10m
315	0,28	1250	488	328	5,69	141-315-102	10m
325	0,28	1250	503	338	5,91	141-325-102	10m
350	0,28	1250	540	363	6,66	141-350-102	10m
400	0,15	675	615	413	7,84	141-400-102	10m
450	0,15	675	690	463	9,04	141-450-102	10m
500	0,15	675	765	513	10,16	141-500-102	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.  
Subject to technical changes and colour deviations.



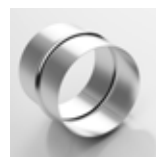
Heat-Shrink Cuff



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



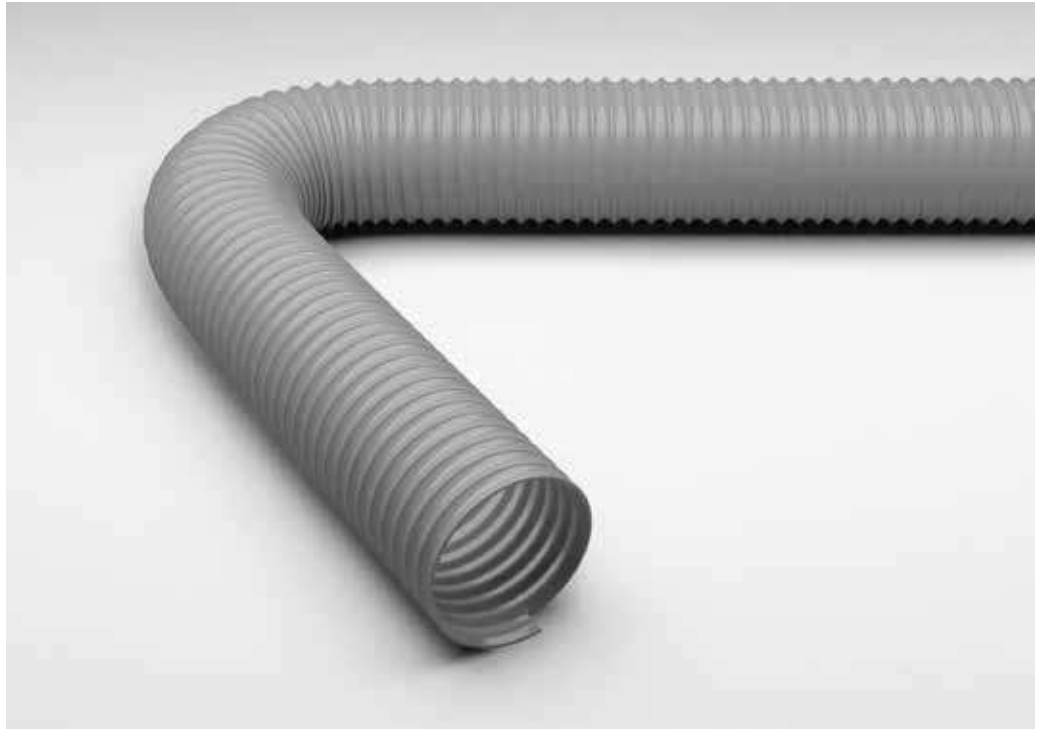
Hose Reducer,  
symmetrical

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Master-PVC H-F

PVC Film/Foil Hose,  
medium duty,  
flexible



#### Material

spiral: spring steel wire, plastic-coated

wall: soft PVC

Film thickness between spirals approx.

1.2 - 1.5mm, dep. on DN size

#### Applications

- Transport of fine-grained particles, such as dust and powder
- Protective hose
- Liquid drainage
- Suction and transport hose for solid, liquid and gaseous media
- Ventilation and air-conditioning systems
- Dust removal
- Apparatus construction
- Spinning fibre extraction

#### Properties

- good chemical resistance
- gas-tight
- small bending radii
- increased pressure and vacuum resistance
- mostly smooth inner lining
- optimum flow characteristics
- extremely flexible
- lightweight
- good oil/alkali/acid resistance
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust and gases

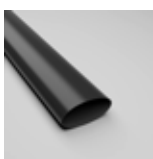
#### Temperature Range

- -20°C to +70°C
- peaks to +80°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	pro- duction lengths
20	2,4	8500	30	27	0,243	663-020-102	10m/15m
22	2,4	8500	33	29	0,268	663-022-102	10m/15m
25	2,4	8300	38	32	0,304	663-025-102	10m/15m
28	2,3	8200	42	35	0,341	663-028-102	10m/15m
30	2,2	8000	45	37	0,365	663-030-102	10m/15m
32	2,2	8000	48	39	0,389	663-032-102	10m/15m
35	2,15	7000	53	42	0,426	663-035-102	10m/15m
38	2,15	6500	57	45	0,462	663-038-102	10m/15m
40	2,1	6000	60	48	0,484	663-040-102	10m/15m
45	2	5000	68	53	0,544	663-045-102	10m/15m
50	1,9	4000	75	58	0,605	663-050-102	10m/15m
55	1,75	3500	83	63	0,665	663-055-102	10m/15m
60	1,6	3500	90	68	0,726	663-060-102	10m/15m
65	1,5	3250	98	73	0,786	663-065-102	10m/15m
70	1,3	3000	105	78	0,847	663-070-102	10m/15m
75	1,25	3000	113	83	0,907	663-075-102	10m/15m
80	1,2	3000	120	88	0,968	663-080-102	10m/15m
90	1,1	2500	135	98	1,089	663-090-102	10m/15m
100	1	2500	150	109	1,263	663-100-102	10m/15m
110	0,9	2500	165	119	1,278	663-110-102	10m/15m
115	0,85	2000	173	124	1,336	663-115-102	10m/15m
120	0,8	2000	180	129	1,395	663-120-102	10m/15m
125	0,75	2000	185	134	1,453	663-125-102	10m/15m
130	0,7	1800	195	139	1,511	663-130-102	10m/15m
140	0,6	1800	210	151	1,83	663-140-102	10m/15m
150	0,5	1800	225	161	1,94	663-150-102	10m/15m
160	0,4	1600	240	171	2,092	663-160-102	10m/15m
170	0,35	1600	255	181	2,223	663-170-102	10m/15m
175	0,35	1600	260	186	2,263	663-175-102	10m/15m
180	0,35	1500	270	191	2,353	663-180-102	10m/15m
200	0,3	1500	300	211	2,615	663-200-102	10m/15m
215	0,25	1250	323	227	3,157	663-215-102	10m/15m
225	0,2	1250	338	237	3,304	663-225-102	10m/15m
250	0,2	1200	375	262	3,671	663-250-102	10m/15m
275	0,15	1100	413	287	4,039	663-275-102	10m/15m
300	0,15	1000	450	312	4,406	663-300-102	10m/15m
315	0,15	1000	473	327	4,626	663-315-102	10m/15m
325	0,1	900	488	337	4,773	663-325-102	10m/15m
350	0,1	900	525	362	5,14	663-350-102	10m/15m
375	0,1	800	563	387	5,507	663-375-102	10m/15m
400	0,1	800	600	412	5,874	663-400-102	10m/15m
500	0,05	300	750	512	7,343	663-500-102	10m/15m

All data refers to a media and ambient temperature of +20 °C  
\* refers to the inside of the hose

Order-based production in the above listed sizes and lengths, in grey or transparent. Delivery approx. 10 working days.  
Available on request in other lengths, sizes and colours, with print.  
Subject to technical changes and colour deviations.



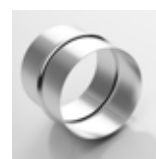
Heat-Shrink Cuff



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector

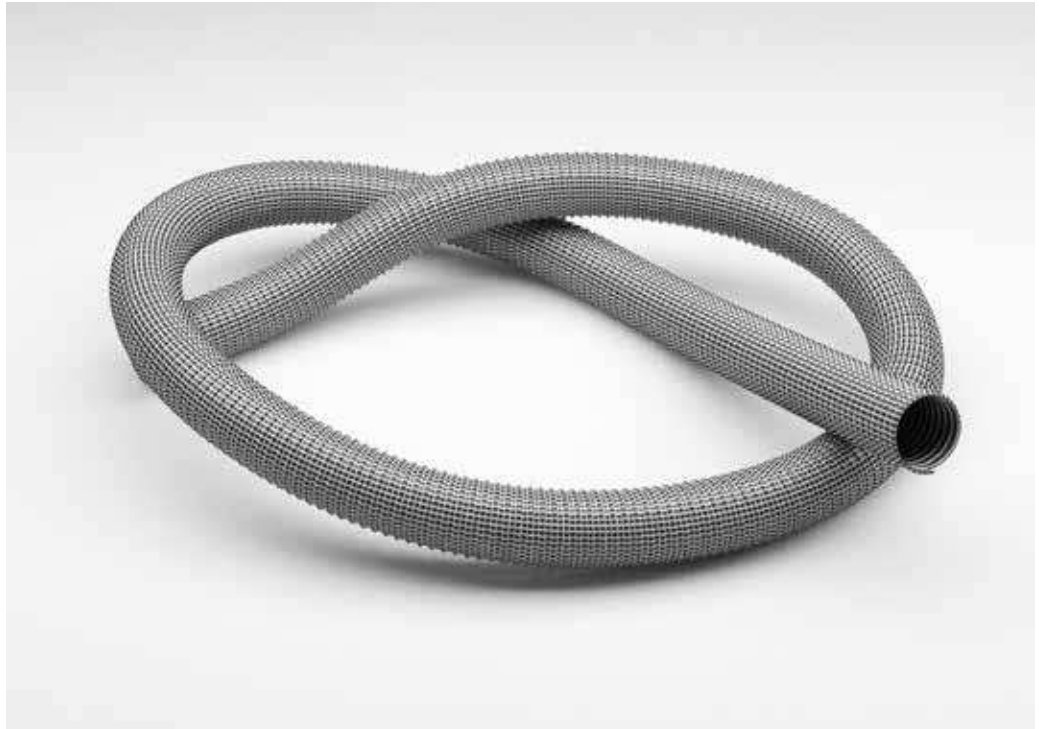


Hose Reducer,  
symmetrical



### Master-PVC Flex

PVC Suction & Transport Hose, light duty, highly flexible, reinforced



#### Material

spiral: spring steel wire, plastic-coated  
wall: double-layered soft PVC with strand reinforcements

#### Applications

- Transport of fine-grained particles, such as dust and powder
- Protective hose
- Suction and transport hose for solid, liquid and gaseous media
- Ventilation and air-conditioning systems
- Boat and caravan manufacturing
- Household and industrial vacuum cleaners
- Welding fume extraction
- Textile industry
- Construction drying
- Machine manufacturing

#### Properties

- extremely flexible
- light
- smallest bending radii
- good chemical resistance
- gas-tight
- mostly smooth inner lining
- RoHs conformal
- good oil/alkali/acid resistance

#### Temperature Range

- 0°C to +70°C
- peaks to +85°C

## Master-PVC Flex

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
25	1	4000	25	30	0,224	671-025-107	/
28	1	3500	28	33	0,241	671-028-107	15m
32	1	3500	32	37	0,269	671-032-107	15m
38	0,95	3000	38	43	0,367	671-038-107	15m
41	0,95	3000	41	46	0,398	671-041-107	15m
44	0,9	2800	44	50	0,427	671-044-107	15m
51	0,9	2800	51	57	0,487	671-051-107	15m
63	0,8	2500	63	69	0,608	671-063-107	15m
70	0,8	2000	71	78	0,784	671-070-107	/
76	0,8	2000	76	83	0,85	671-076-107	/
80	0,8	1800	80	87	0,88	671-080-107	/
89	0,8	1700	89	96	0,98	671-089-107	/
102	0,8	1500	102	109	1,15	671-102-107	/

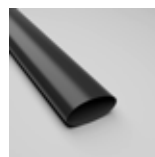
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



PU Cuff,  
electroconductive



Hose Clamp with  
Worm-Gear Drive



Heat-Shrink Cuff

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Polderflex

PVC Suction & Transport Hose, pressure & vacuum-proof, cadmium free



#### Material

spiral: spring steel wire  
wall: soft PVC  
wall thickness between spirals approx.  
3 - 10 mm, dep. on DN size

#### Applications

- Suction & Transport Hose for abrasive solids, liquids and gases
- Sewer cleaning
- Vacuum pumps
- Agriculture
- Construction industry
- Groundwater offtake

#### Properties

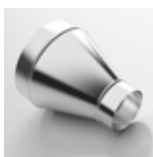
- good chemical resistance
- smooth inner and outer linings
- flexible
- good oil/alkali/acid resistance
- pressure and vacuum-proof
- atoxic, physiologically safe/harmless
- Conduction of electrostatic charge with earthed spiral

#### Temperature Range

- -20°C to +70°C
- peaks to +80°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
10	10	9000	20	16	0,18	660-010-101	/
12	9	9000	24	18	0,19	660-016-101	/
13	9	9000	26	19	0,22	660-013-101	50m
14	9	9000	28	20	0,23	660-014-101	/
16	9	9000	22	22	0,27	660-016-101	/
18	8	9000	36	25	0,3	660-018-101	/
19	8	9000	38	26	0,35	660-019-101	30m
20	8	9000	40	27	0,34	660-020-101	/
25	8	9000	50	33	0,52	660-025-101	50m
32	8	9000	64	40	0,66	660-032-101	30m
38	7	9000	76	47	0,8	660-038-101	/
40	7	9000	80	50	0,95	660-040-101	30m
45	6	9000	90	55	1,15	660-045-101	/
51	5	9000	102	62	1,35	660-050-101	30m
60	5	9000	120	72	1,75	660-060-101	/
63	5	9000	126	75	1,8	660-063-101	/
76	4	9000	152	89	2,3	660-075-101	/
80	4	9000	160	93	2,58	660-080-101	/
90	4	9000	270	104	2,95	660-090-101	/
100	3	9000	306	117	3,75	660-100-101	/
110	3	9000	330	127	3,9	660-110-101	/
127	3	9000	381	143	4,8	660-125-101	/
152	2	9000	456	170	6,5	660-150-101	/

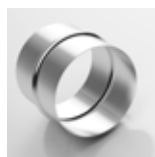
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Reducer,  
symmetrical



Heat-Shrink Cuff



Hose Connector



Hose Clamp with  
Worm-Gear Drive



Hose Clamp with Bolts

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

## Master-VAC

PE-EVA Suction & Transport Hose, light duty, crush-resistant



**TOP TIP:**  
Also available as EL (electroconductive) version

### Material

wall: PE-EVA Co-polymer

### Applications

- Suction Hose for fine-grained particles, e.g. dust, powders, fibres
- Protective hose
- Swimming pool cleaning
- Ventilation
- Conveyance and suction of solid, liquid and gaseous media
- Chemicals industry
- Dust removal units
- Household vacuum cleaners
- Industrial vacuum cleaners
- Handheld machines

### Properties

- extremely flexible
- light
- RoHs conformal
- good oil/alkali/acid resistance
- floatable (spec. Weight 0.94)
- crush-resistant
- UV/ozone-proof
- air/watertight

### Temperature Range

- -40°C to +60°C
- peaks to +70°C

DN	vacuum c. mmWC	bend radius c. mm*	weight c. kg/m	article no.	stock length		
25	7500	60	0,15	670-025-107	15m		
28	7500	70	0,19	670-028-107	15m		
32	5000	70	0,22	670-032-107	15m		
36	5000	75	0,27	670-036-107	15m		
38	5000	80	0,29	670-038-107	15m		
45	5000	90	0,37	670-045-107	15m		
50	4000	100	0,42	670-050-107	15m		

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with  
Worm-Gear Drive



PU Cuff,  
electroconductive

### Master-VAC EL

PE-EVA Suction & Transport Hose, lightweight, crush-resistant, electroconductive, surface resistance <math><10^6\text{ Ohm}</math>



#### Material

wall: PE-EVA Co-polymer

#### Applications

- Suction Hose for fine-grained particles, e.g. dust, powders, fibres
- Protective hose
- Swimming pool cleaning
- Ventilation
- Conveyance and suction of solid, liquid and gaseous media
- Chemicals industry
- Dust removal units
- Household vacuum cleaners
- Industrial vacuum cleaners
- Handheld machines

#### Properties

- extremely flexible
- light
- good oil/alkali/acid resistance
- floatable (spec. weight 0.94)
- crush-resistant
- UV/ozone-proof
- surface resistance <math><10^6\text{ Ohm}</math>
- air/watertight

#### Temperature Range

- -40°C to +60°C
- peaks to +70°C

DN	vacuum c. mmWS	bend radius c. mm*	weight c. kg/m	article no.	stock length		
25	7500	60	0,15	670-025-207	/		
28	7500	70	0,19	670-028-207	15m		
32	5000	70	0,22	670-032-207	15m		
38	5000	80	0,29	670-038-207	15m		
45	5000	90	0,37	670-045-207	20m		
50	4000	100	0,42	670-050-207	15m		

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with  
Worm-Gear Drive



PU Cuff,  
electroconductive





# 3

## **Hardly Inflammable Hoses**

**Hardly inflammable hoses made from PU are especially suitable for applications in the wood industry and have excellent abrasion resistance**



## Master-PUR STEP

PU Film Hose,  
crush-resistant,  
hardly inflammable  
acc. to DIN 4102 B1



### Material

wall: pure polyester polyurethane with flame-retardant additives (acc. to DIN ISO 4649 more abrasion-resistant than polyether polyurethane)  
spiral: polyurethane, flame-retardant, with integrated wire

### Applications

- Suction & Transport Hose for abrasive solids, liquids and gases
- Ideal as Suction Hose for floor-level areas where conventional hoses are subjected to rough conditions and can be permanently deformed
- Wood processing
- Protective hose

### Properties

- generally good UV and ozone resistance
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- good flow characteristics
- crush-resistant and recoverable
- excellent recovery properties
- hardly inflammable acc. to DIN 4102 B1
- withstands high mechanical loads
- abrasion-resistant
- super lightweight
- highly flexible

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
50	0,78	2050	50	68	0,39	311-050-618	10m
60	0,76	1900	65	80	0,45	311-060-618	/
75	0,61	1300	75	95	0,61	311-075-618	10m
80	0,53	1300	80	100	0,65	311-080-618	10m
100	0,46	950	100	120	0,8	311-100-618	10m
120	0,38	950	120	140	0,95	311-120-618	10m
140	0,3	650	140	160	1,15	311-140-618	/
150	0,3	650	150	170	1,2	311-150-618	10m
160	0,3	650	160	180	1,3	311-160-618	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



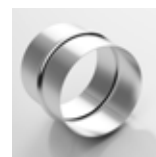
Hose Reducer,  
symmetrical



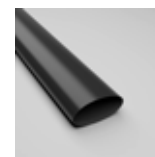
Car-Grip Hose Clamp,  
screwable



Car-Grip Quick-Fix  
Clamp



Hose Connector



Heat-Shrink Cuff

### Flamex B-F se

PU Film Hose, light-weight, highly flexible and compressible, hardly inflammable acc. to DIN 4102 B1



#### Material

spiral: spring steel wire  
wall: pure polyester polyurethane with flame-retardant additives (acc. to DIN ISO 4649 more abrasion-resistant than polyether polyurethane)  
wall thickness between spirals approx. 0.5 mm

#### Applications

- Protective Hose against mechanical wear
- Hardly inflammable transport hose for abrasive solids
- Wood processing machines
- Shavings extractions in wood processing

#### Properties

- halogen and plasticizer-free
- extremely flexible
- highly abrasion-resistant
- smallest bending radii
- generally good UV and ozone resistance
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- hardly inflammable acc. to DIN 4102 B1
- super lightweight
- permanently kink-resistant
- solvent, oil and petroleum-proof
- adheres to conditions of German Woodcutters trade association (Holz-BG)
- symmetrical fold behaviour
- compressible approx 1:5

#### Temperature Range

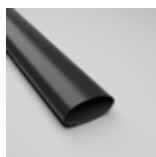
- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
40	0,82	2450	20	46	0,28	310-040-601	10m
45	0,8	2200	22	51	0,29	310-045-601	/
50	0,78	2050	25	57	0,3	310-050-601	10m
60	0,76	1900	35	68	0,35	310-060-601	10m
63	0,72	1750	37	71	0,36	310-063-601	/
65	0,68	1600	38	73	0,38	310-065-601	10m
70	0,61	1600	40	78	0,41	310-070-601	10m
75	0,61	1300	43	83	0,5	310-075-601	10m
80	0,53	1300	45	88	0,53	310-080-601	10m
90	0,46	950	50	99	0,6	310-090-601	10m
100	0,46	950	55	108	0,67	310-100-601	10m
110	0,38	950	60	119	0,73	310-110-601	10m
115	0,38	950	63	124	0,76	310-115-601	10m
120	0,38	950	65	129	0,79	310-120-601	10m
125	0,38	950	68	134	0,83	310-125-601	10m
130	0,3	950	70	139	0,84	310-130-601	10m
140	0,3	650	75	149	0,86	310-140-601	10m
150	0,3	650	80	159	0,89	310-150-601	10m
160	0,3	650	85	169	1,05	310-160-601	10m
170	0,23	650	90	179	1,09	310-170-601	10m
175	0,23	650	93	184	1,11	310-175-601	10m
180	0,23	650	95	189	1,13	310-180-601	10m
200	0,23	650	105	210	1,25	310-200-601	10m
225	0,15	300	118	235	1,41	310-225-601	10m
250	0,15	300	130	260	1,49	310-250-601	10m
275	0,15	300	143	285	1,64	310-275-601	/
280	0,15	300	145	290	1,67	310-280-601	10m
300	0,14	285	155	310	1,78	310-300-601	10m
350	0,12	250	180	360	2,44	310-350-601	10m
400	0,12	250	210	410	3,04	310-400-601	10m

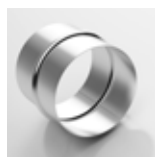
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Reducer,  
symmetrical



Heat-Shrink Cuff



Hose Connector



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp

### Flamex B se

PU Suction & Transport Hose, lightweight & flexible, hardly inflammable acc. to DIN 4102 B1



#### Material

spiral: spring steel wire  
wall: pure polyester polyurethane with flame-retardant additives (acc. to DIN ISO 4649 more abrasion-resistant than polyether polyurethane)  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Protective Hose against mechanical wear
- Hardly inflammable transport hose for abrasive solids
- Wood processing machines
- Shavings extractions in wood processing

#### Properties

- halogen and plasticizer-free
- light
- smallest bending radii
- generally good UV and ozone resistance
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- hardly inflammable acc. to DIN 4102 B1
- highly flexible
- extremely abrasion-resistant
- permanently kink-resistant
- solvent, oil and petroleum-proof
- adheres to conditions of German Woodcutters trade association (Holz-BG)

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
40	1,89	4725	48	48	0,3	120-040-601	10m
45	1,65	4200	53	53	0,33	120-045-601	10m
50	1,51	3675	58	58	0,38	120-050-601	10m
60	1,26	3150	68	68	0,5	120-060-601	10m
63	1,2	2890	71	71	0,52	120-063-601	10m
65	1,13	2625	73	73	0,54	120-065-601	10m
70	1,01	2625	78	78	0,58	120-070-601	10m
75	1,01	2100	84	83	0,61	120-075-601	10m
80	0,88	2100	88	88	0,65	120-080-601	10m
90	0,76	1575	99	99	0,8	120-090-601	10m
100	0,76	1575	110	108	0,94	120-100-601	10m
110	0,63	1575	119	119	0,97	120-110-601	10m
115	0,63	1575	124	124	0,98	120-115-601	10m
120	0,63	1575	129	129	1	120-120-601	10m
125	0,63	1575	135	134	1,07	120-125-601	10m
130	0,5	1575	139	139	1,14	120-130-601	10m
140	0,5	1050	149	149	1,21	120-140-601	10m
150	0,5	1050	161	159	1,27	120-150-601	10m
160	0,5	1050	170	169	1,42	120-160-601	10m
170	0,38	1050	180	179	1,56	120-170-601	10m
175	0,38	1050	185	184	1,63	120-175-601	10m
180	0,38	1050	190	189	1,7	120-180-601	10m
200	0,38	1050	214	210	1,98	120-200-601	10m
225	0,25	525	235	235	2,18	120-225-601	10m
250	0,25	525	260	260	2,33	120-250-601	10m
275	0,25	525	284	285	2,47	120-275-601	/
280	0,25	525	290	290	2,6	120-280-601	10m
300	0,23	475	310	310	3,2	120-300-601	10m
315	0,23	475	325	325	3,32	120-315-601	10m
325	0,23	475	335	335	3,4	120-325-601	10m
350	0,12	475	360	360	3,6	120-350-601	10m
400	0,12	475	410	411	4,45	120-400-601	10m
450	0,12	475	460	461	5,06	120-450-601	10m
500	0,12	370	510	511	5,7	120-500-601	10m

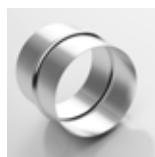
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixated

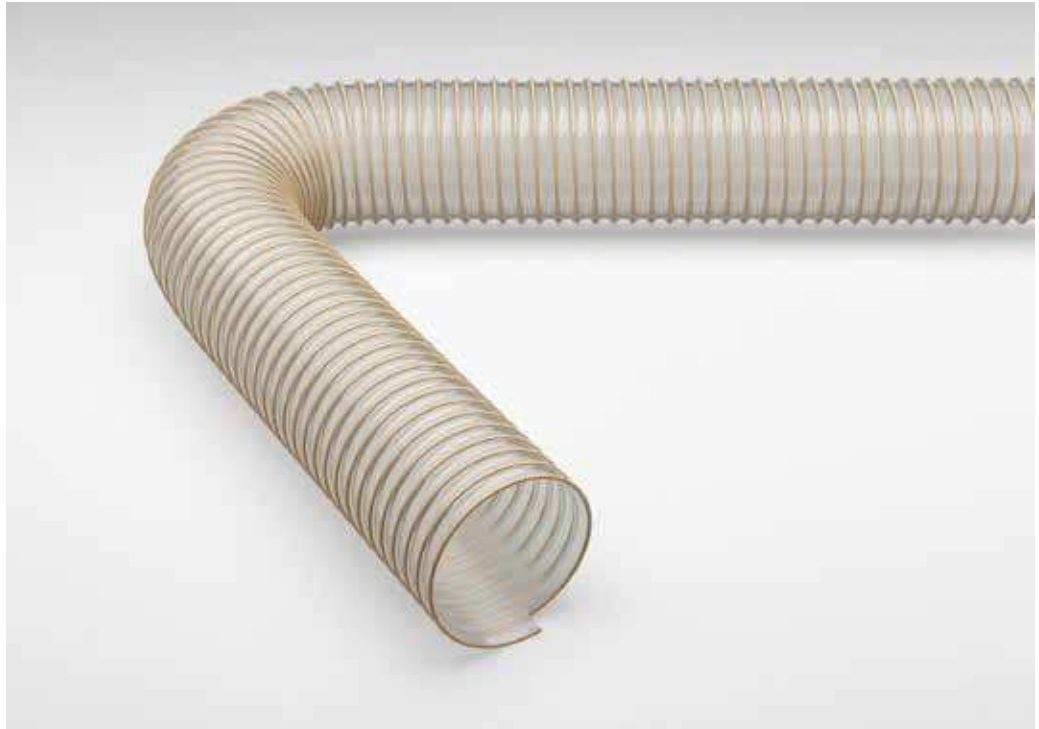
Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist



### Flamex B-H se

PU Suction & Transport Hose, medium duty, hardly inflammable acc. to DIN 4102 B1



#### Material

spiral: spring steel wire  
wall: pure polyester polyurethane with flame-retardant additives (acc. to DIN ISO 4649 more abrasion-resistant than polyether polyurethane)  
wall thickness between spirals approx. 1.4 mm

#### Applications

- Hardly inflammable transport hose for abrasive solids
- Wood processing machines
- Shavings extractions in wood processing
- Chip/shavings container and transporter

#### Properties

- halogen and plasticizer-free
- generally good UV and ozone resistance
- small bending radii
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- hardly inflammable acc. to DIN 4102 B1
- flexible
- extremely abrasion-resistant
- permanently kink-resistant
- solvent, oil and petroleum-proof
- adheres to conditions of German Woodcutters trade association (Holz-BG)
- moderate weight

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
60	2,55	7500	102	70	0,82	121-060-601	/
63	2,46	7000	107	73	0,86	121-063-601	/
65	2,4	6750	112	75	0,89	121-065-601	/
70	2,25	6750	117	80	0,97	121-070-601	/
75	2	6000	126	87	1,03	121-075-601	/
80	2	6000	132	91	1,12	121-080-601	10m
90	1,65	5250	149	101	1,2	121-090-601	/
100	1,5	4500	165	112	1,3	121-100-601	10m
110	1,35	4500	179	121	1,4	121-110-601	/
115	1,35	3125	186	126	1,45	121-115-601	/
120	1,3	3125	194	131	1,5	121-120-601	/
125	1,3	3125	203	138	1,63	121-125-601	/
130	1,3	3125	209	141	1,68	121-130-601	/
140	1,05	2500	224	151	1,8	121-140-601	10m
150	1,05	2500	242	163	1,92	121-150-601	/
160	0,9	2500	255	171	2,22	121-160-601	10m
170	0,9	1875	270	181	2,41	121-170-601	/
175	0,9	1875	278	186	2,51	121-175-601	/
180	0,75	1875	285	191	2,61	121-180-601	/
200	0,75	1875	321	215	2,89	121-200-601	10m
225	0,6	1250	353	237	3,2	121-225-601	/
250	0,6	1250	390	263	3,94	121-250-601	10m
275	0,45	1250	426	288	4,59	121-275-601	/
280	0,45	1250	435	293	4,67	121-280-601	/
300	0,45	1250	465	313	5	121-300-601	/
315	0,45	1250	488	328	5,3	121-315-601	/
325	0,45	1250	503	338	5,5	121-325-601	/
350	0,45	1250	540	363	6,2	121-350-601	/
400	0,3	675	615	413	7,3	121-400-601	/
450	0,3	675	690	463	8,43	121-450-601	/
500	0,3	675	765	513	9,46	121-500-601	/

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available from stock in the above listed lengths and sizes.

Available on request in other lengths, sizes and colours, with print.

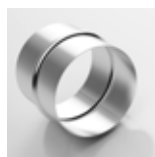
Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixe

### Master-PUR L-MHR se

PU Suction & Transport Hose, light duty, microbe & hydrolysis-resistant, hardly inflammable



#### Material

Hose wall: special polyurethane  
spiral: spring steel wire  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Suction & Transport Hose for abrasive solids, for which microbe and hydrolysis resistance is required
- Drainage hose for rainwater and condensation from air-conditioning systems
- Ventilation systems in railed vehicles
- Very good hydrolysis and microbe resistance

#### Properties

- extremely flexible
- highly abrasion-resistant
- smallest bending radii
- good temperature resistance
- generally good UV and ozone resistance
- mostly smooth inner lining
- tested acc. to ISO 5659-2:2007; classification DIN 5510-2:2009 with the result:
  - requirements fulfilled
- tested acc. to DIN 54837:2007; classification DIN 5510-2:2009 with the result:
  - flammability class: S-4
  - smoke formation class: SR-2
  - drip formation class: ST-2
- good cold flexibility
- free of halogens and heavy metals
- very good hydrolysis and microbe resistance

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR L-MHR se

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	pro- duction lengths
25	3,22	8000	31	31	0,25	110-025-698	10m/15m
32	2,52	7250	40	40	0,35	110-032-698	10m/15m
38	2,1	6750	46	46	0,39	110-038-698	10m/15m
40	2,1	6750	48	48	0,4	110-040-698	10m/15m
45	1,84	6000	53	53	0,42	110-045-698	10m/15m
50	1,68	5250	58	58	0,45	110-050-698	10m/15m
55	1,54	4500	63	63	0,51	110-055-698	10m/15m
60	1,4	4500	68	68	0,53	110-060-698	10m/15m
65	1,26	3750	73	73	0,64	110-065-698	10m/15m
70	1,12	3750	78	78	0,68	110-070-698	10m/15m
75	1,12	3000	84	84	0,72	110-075-698	10m/15m
80	0,98	3000	88	88	0,76	110-080-698	10m/15m
90	0,84	2250	99	99	0,88	110-090-698	10m/15m
100	0,84	2250	110	110	0,95	110-100-698	10m/15m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

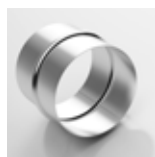
Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.  
Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixe

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Master-PUR H-MHR se

PU Suction & Transport Hose, medium duty, microbe & hydrolysis-resistant, hardly inflammable



#### Material

Hose wall: special polyurethane  
spiral: spring steel wire  
wall thickness between spirals approx. 1.4 mm

#### Applications

- Suction & Transport Hose for abrasive solids, for which microbe and hydrolysis resistance is required
- Drainage hose for rainwater and condensation from air-conditioning systems
- Ventilation systems in railed vehicles

#### Properties

- highly abrasion-resistant
- good temperature resistance
- generally good UV and ozone resistance
- small bending radii
- mostly smooth inner lining
- flexible
- tested acc. to ISO 5659-2:2007; classification DIN 5510-2:2009 with the result:
  - requirements fulfilled
- tested acc. to DIN 54837:2007; classification DIN 5510-2:2009 with the result:
  - flammability class: S-4
  - smoke formation class: SR-2
  - drip formation class: ST-2
- good cold flexibility
- free of halogens and heavy metals
- very good hydrolysis and microbe resistance

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR H-MHR se

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	pro- duction lengths
25	4,16	9400	47	33	0,29	111-025-698	10m/15m
32	3,25	9400	60	41	0,39	111-032-698	10m/15m
38	3,12	8400	69	47	0,46	111-038-698	10m/15m
40	3	8350	72	49	0,49	111-040-698	10m/15m
45	2,95	8250	80	55	0,55	111-045-698	10m/15m
50	2,9	8000	87	61	0,71	111-050-698	10m/15m
55	2,75	7750	95	65	0,77	111-055-698	10m/15m
60	2,55	7500	102	70	0,84	111-060-698	10m/15m
65	2,4	6750	112	75	0,91	111-065-698	10m/15m
70	2,25	6750	117	80	0,97	111-070-698	10m/15m
75	2	6000	126	87	1,06	111-075-698	10m/15m
80	2	6000	132	91	1,11	111-080-698	10m/15m
90	1,65	5250	149	101	1,25	111-090-698	10m/15m
100	1,5	4500	165	112	1,48	111-100-698	10m/15m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

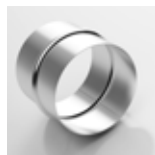
Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.  
Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fix

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Miniflex TPV se

TVP Suction & Transport Hose, light duty & highly flexible, hardly inflammable



#### Material

spiral: spring steel wire, TPV-coated  
wall: thermoplastic vulcanizate (TPV)  
wall thickness: 0.3 - 1.2mm, dep. on DN

#### Applications

- Cable protection hose
- Machine manufacturing
- Protective hose for greater temperature demands in
- Substation construction
- Control boxes
- Vehicle manufacturing
- Robot technology
- Suction hose for higher temperature demands

#### Properties

- extremely flexible
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- RoHS conformal
- protection class IP 68, EN 60 529
- extremely lightweight
- bending radius = outer diameter
- ageing-resistant
- hardly inflammable TPV, VO acc. to UL 94

#### Temperature Range

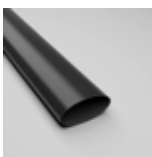
- -40°C to +130°C
- peaks to +150°C

DN	PG	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø ca. mm	article no.	pro- duction lengths
7	0,23	7700	10	10	0,06	450-007-607	50m
10	0,22	7600	14	14	0,11	450-010-607	50m
13	0,21	7550	17	17	0,13	450-013-607	50m
15	0,2	7500	19	19	0,14	450-015-607	50m
16	0,2	7500	21	21	0,19	450-016-607	50m
22	0,18	7350	27	27	0,24	450-022-607	50m
25	0,17	7250	30	30	0,31	450-025-607	50m
30	0,15	7000	36	36	0,36	450-030-607	25m
32	0,13	7000	38	38	0,44	450-032-607	25m
38	0,11	6750	45	45	0,59	450-038-607	25m
40	0,1	6750	47	47	0,61	450-040-607	25m
44	0,09	6000	52	52	0,76	450-044-607	25m
45	0,09	6000	53	53	0,76	450-045-607	25m
48	0,08	5400	56	56	0,81	450-048-607	25m
50	0,08	5250	58	58	0,83	450-050-607	25m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.  
Subject to technical changes and colour deviations.



Heat-Shrink Cuff



Hose Clamp with  
Worm-Gear Drive

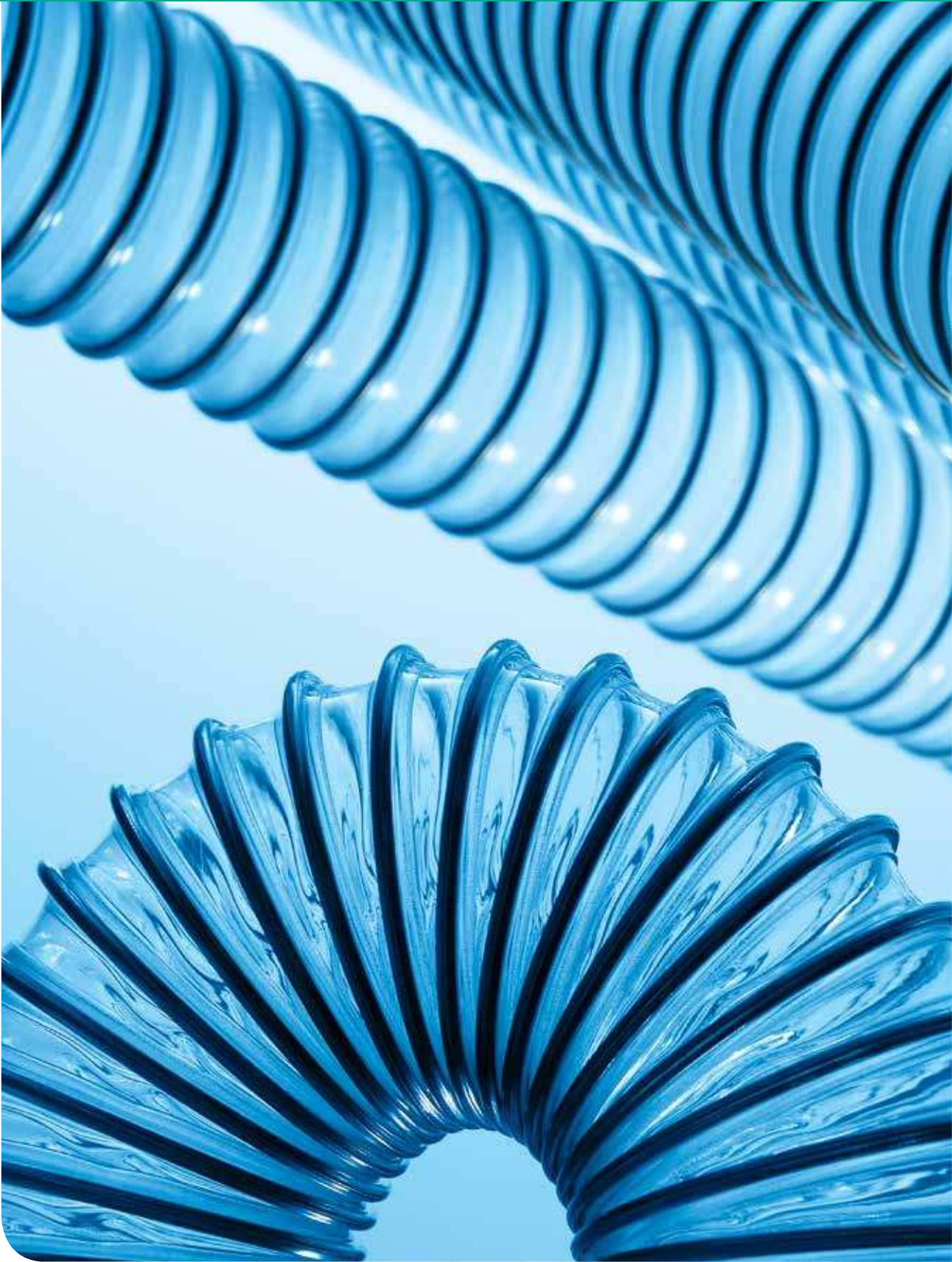




# 4

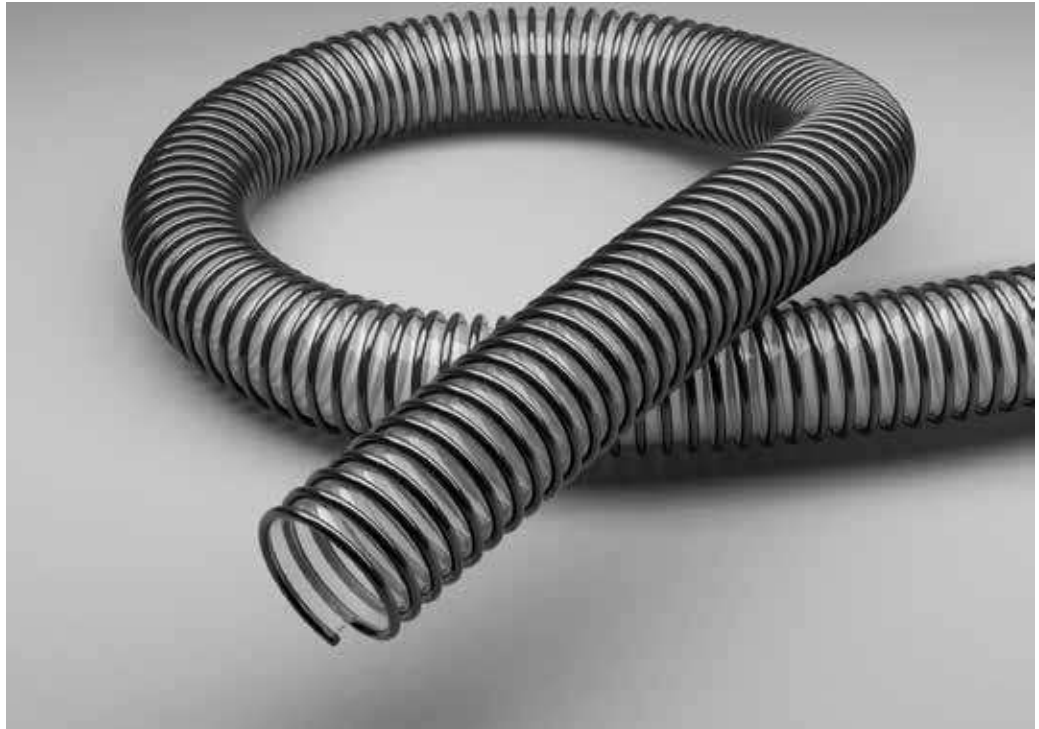
## **Microbe & Hydrolysis-Resistant Hoses**

**Extremely flexible hoses made  
from Polyester and Polyether-  
Polyurethane for a wide range of  
applications**



### Master-PUR STEP MHR

PU Film Hose,  
crush-resistant,  
microbe & hydrolysis-  
resistant



#### Material

spiral: plastic-profile helix  
wall: pure polyether polyurethane, microbe-  
resistant

#### Applications

- Leaf vacuums/blowers
- Suction & Transport Hose for abrasive solids, for which microbe and hydrolysis resistance is required
- Lawnmowers
- Light suction hose for municipal vehicles

#### Properties

- extremely flexible
- light
- highly abrasion-resistant
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- mostly smooth inner lining
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- microbe and hydrolysis-resistant
- gas/watertight
- free of halogens and heavy metals
- crush-resistant
- high tension/tear-proof
- vibration-resistant
- flexible at cold temperatures

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR STEP MHR

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	artcle no.	stock length
80	0,8	3200	80	100	0,715	311-080-498	/
100	0,7	2800	100	120	0,883	311-100-498	/
120	0,63	2300	120	140	1,051	311-120-498	10m
150	0,5	1700	150	170	1,387	311-150-498	/
160	0,45	1500	160	180	1,387	311-160-498	/
180	0,4	1100	180	200	1,555	311-180-498	/
200	0,3	700	200	220	1,723	311-200-498	/

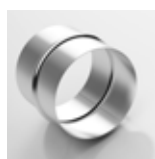
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Car-Grip Quick-Fix  
Clamp



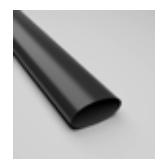
Car-Grip Hose Clamp,  
screwable



Hose Connector



PU Cuff, pre-fitted



Heat-Shrink Cuff

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

## Master-PUR L

PU Suction & Transport Hose, light duty



**NEW!**  
Multifunction Hose:  
antistatic AND  
microbe-resistant

### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 0.7 mm

### Applications

- Suction/extraction of paper and textile fibres
- Transport of fine-grained particles, such as dust and powder
- Suction & Transport Hose for abrasive solids, liquids and gases
- Protective Hose against mechanical wear
- Oil mist extraction/suction

### Properties

- halogen and plasticizer-free
- extremely flexible
- light
- highly abrasion-resistant
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- RoHS conformal
- microbe-resistant
- antistatic, surface resistance <math>< 10^9 \text{ Ohm}</math>

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
25	3,22	8000	31	31	0,25	110-025-401	10m/15m
32	2,52	7250	40	40	0,35	110-032-401	10m/15m
38	2,1	6750	46	46	0,39	110-038-401	10m/15m
40	2,1	6750	48	48	0,4	110-040-401	10m/15m
45	1,84	6000	53	53	0,42	110-045-401	10m/15m
50	1,68	5250	58	58	0,45	110-050-401	10m/15m
55	1,54	4500	63	63	0,51	110-055-401	10m/15m
60	1,4	4500	68	68	0,53	110-060-401	10m/15m
65	1,26	3750	73	73	0,64	110-065-401	10m/15m
70	1,12	3750	78	78	0,68	110-070-401	10m/15m
75	1,12	3000	84	84	0,72	110-075-401	10m/15m
80	0,98	3000	88	88	0,76	110-080-401	10m/15m
90	0,84	2250	99	99	0,88	110-090-401	10m/15m
100	0,84	2250	110	110	0,95	110-100-401	10m/15m
110	0,7	2250	119	119	1,03	110-110-401	10m/15m
115	0,7	2250	124	124	1,06	110-115-401	10m/15m
120	0,7	2250	129	129	1,12	110-120-401	10m/15m
125	0,7	2250	135	135	1,18	110-125-401	10m/15m
130	0,56	2250	139	139	1,2	110-130-401	10m/15m
140	0,56	1500	149	149	1,38	110-140-401	10m/15m
150	0,56	1500	161	161	1,48	110-150-401	10m/15m
160	0,56	1500	170	170	1,74	110-160-401	10m/15m
170	0,42	1500	180	180	1,8	110-170-401	10m/15m
175	0,42	1500	185	185	1,85	110-175-401	10m/15m
180	0,42	1500	190	190	1,9	110-180-401	10m/15m
200	0,42	1500	214	214	2,3	110-200-401	10m/15m
225	0,28	750	235	235	2,55	110-225-401	10m/15m
250	0,28	750	260	260	3,02	110-250-401	10m/15m
275	0,28	750	284	284	3,11	110-275-401	10m
280	0,28	750	290	290	3,14	110-280-401	10m
300	0,25	675	310	310	3,2	110-300-401	10m
315	0,25	675	325	325	3,32	110-315-401	10m
325	0,25	675	335	335	3,4	110-325-401	10m
350	0,13	675	360	360	3,6	110-350-401	10m
375	0,13	525	386	386	3,85	110-375-401	/
400	0,13	525	410	411	4,45	110-400-401	10m
450	0,13	525	460	461	5,06	110-450-401	10m
500	0,13	525	510	511	5,7	110-500-401	10m

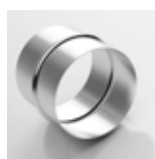
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixable

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Master-PUR L-MHR

PU Suction & Transport Hose, light duty, microbe & hydrolysis-resistant



#### Material

spiral: spring steel wire  
wall: pure polyether polyurethane  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Suction/extraction of paper and textile fibres
- Transport of fine-grained particles, such as dust and powder
- Protective Hose against mechanical wear
- Oil mist extraction/suction
- Suction & Transport Hose for abrasive solids, for which microbe and hydrolysis resistance is required

#### Properties

- halogen and plasticizer-free
- extremely flexible
- light
- highly abrasion-resistant
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- microbe and hydrolysis-resistant

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR L-MHR

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
25	3,22	8000	31	31	0,25	110-025-498	/
32	2,52	7250	40	40	0,35	110-032-498	/
38	2,1	6750	46	46	0,39	110-038-498	/
40	2,1	6750	48	48	0,4	110-040-498	/
45	1,84	6000	53	53	0,42	110-045-498	/
50	1,68	5250	58	58	0,45	110-050-498	10m
55	1,54	4500	63	63	0,51	110-055-498	/
60	1,4	4500	68	68	0,53	110-060-498	/
65	1,26	3750	73	73	0,64	110-065-498	/
70	1,12	3750	78	78	0,68	110-070-498	/
75	1,12	3000	84	84	0,72	110-075-498	/
80	0,98	3000	88	88	0,76	110-080-498	/
90	0,84	2250	99	99	0,88	110-090-498	/
100	0,84	2250	110	110	0,95	110-100-498	10m
110	0,7	2250	119	119	1,03	110-110-498	/
115	0,7	2250	124	124	1,06	110-115-498	/
120	0,7	2250	129	129	1,12	110-120-498	/
125	0,7	2250	135	135	1,18	110-125-498	/
130	0,56	2250	139	139	1,2	110-130-498	/
140	0,56	1500	149	149	1,38	110-140-498	/
150	0,56	1500	161	161	1,48	110-150-498	/
160	0,56	1500	170	170	1,74	110-160-498	10m
170	0,42	1500	180	180	1,8	110-170-498	/
175	0,42	1500	185	185	1,85	110-175-498	/
180	0,42	1500	190	190	1,9	110-180-498	10m
200	0,42	1500	214	214	2,3	110-200-498	10m
225	0,28	750	235	235	2,55	110-225-498	/
250	0,28	750	260	260	3,02	110-250-498	10m
275	0,28	750	284	284	3,11	110-275-498	/
280	0,28	750	290	290	3,14	110-280-498	/
300	0,25	675	310	310	3,2	110-300-498	/
315	0,25	675	325	325	3,32	110-315-498	/
325	0,25	675	335	335	3,4	110-325-498	/
350	0,13	675	360	360	3,6	110-350-498	/
375	0,13	525	386	386	3,85	110-375-498	/
400	0,13	525	410	411	4,45	110-400-498	/
450	0,13	525	460	461	5,06	110-450-498	/
500	0,13	525	510	511	5,7	110-500-498	/

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available from stock in the above listed lengths and sizes.

Available on request in other lengths, sizes and colours, with print.

Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fix

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

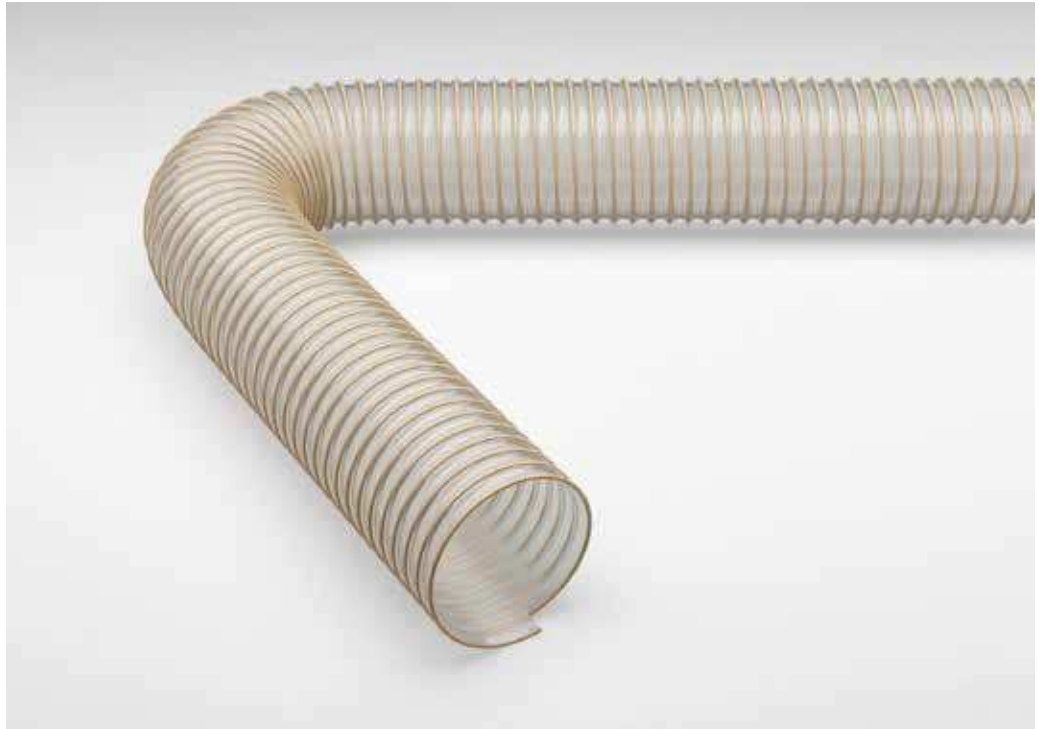
Chemical Resistance - see Technical Appendix  
Prices - see Pricelist



## Master-PUR H

PU Suction &  
Transport Hose,  
medium duty

**NEW!**  
**Multifunction Hose:**  
**antistatic AND**  
**microbe-resistant**



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 1.4 mm

### Applications

- Suction of coarse-grained media with high flow rate
- For abrasive solids, gaseous and liquid media
- Standard hose for industrial vacuum cleaners
- Granulate transport hose
- Transport of chips/shavings
- Suction and transport of paper fibres
- Oil mist extraction/suction

### Properties

- highly abrasion-resistant
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- extremely flexible, lightweight
- small bending radii
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- RoHs conformal
- microbe-resistant
- antistatic, surface resistance <math>< 10^9 \text{ Ohm}</math>

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
13	4,7	9400	38	19	0,15	111-013-401	10m/15m
16	4,5	9400	40	22	0,2	111-016-401	10m/15m
20	4,3	9400	43	26	0,22	111-020-401	10m/15m
25	4,16	9400	47	33	0,29	111-025-401	10m/15m
32	3,25	9400	60	41	0,39	111-032-401	10m/15m
38	3,12	8400	69	47	0,46	111-038-401	10m/15m
40	3	8350	72	49	0,49	111-040-401	10m/15m
45	2,95	8250	80	55	0,55	111-045-401	10m/15m
50	2,9	8000	87	61	0,71	111-050-401	10m/15m
55	2,75	7750	95	65	0,77	111-055-401	10m/15m
60	2,55	7500	102	70	0,84	111-060-401	10m/15m
65	2,4	6750	112	75	0,91	111-065-401	10m/15m
70	2,25	6750	117	80	0,97	111-070-401	10m/15m
75	2	6000	126	87	1,06	111-075-401	10m/15m
80	2	6000	132	91	1,11	111-080-401	10m/15m
90	1,65	5250	149	101	1,25	111-090-401	10m/15m
100	1,5	4500	165	112	1,48	111-100-401	10m/15m
110	1,35	4500	179	121	1,61	111-110-401	10m/15m
115	1,35	3125	186	126	1,68	111-115-401	10m/15m
120	1,3	3125	194	131	1,75	111-120-401	10m/15m
125	1,3	3125	203	138	1,91	111-125-401	10m/15m
130	1,3	3125	209	141	1,96	111-130-401	10m/15m
140	1,05	2500	224	151	2,11	111-140-401	10m/15m
150	1,05	2500	242	163	2,29	111-150-401	10m/15m
160	0,9	2500	255	171	2,51	111-160-401	10m/15m
170	0,9	1875	270	181	2,67	111-170-401	10m/15m
175	0,9	1875	278	186	2,74	111-175-401	10m/15m
180	0,75	1875	285	191	2,82	111-180-401	10m/15m
200	0,75	1875	321	215	3,3	111-200-401	10m/15m
225	0,6	1250	353	237	3,65	111-225-401	10m/15m
250	0,6	1250	390	263	3,84	111-250-401	10m/15m
275	0,45	1250	426	288	4,22	111-275-401	10m
280	0,45	1250	435	293	4,3	111-280-401	10m
300	0,45	1250	465	313	4,94	111-300-401	10m
315	0,45	1250	488	328	5,19	111-315-401	/
325	0,45	1250	503	338	5,35	111-325-401	10m
350	0,45	1250	540	363	6,96	111-350-401	10m
375	0,3	675	580	388	7,45	111-375-401	/
400	0,3	675	615	413	7,95	111-400-401	10m
450	0,3	675	690	463	8,94	111-450-401	10m
500	0,3	675	765	513	9,93	111-500-401	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available from stock in the above listed lengths and sizes.

Available on request in other lengths, sizes and colours, with print.

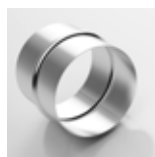
Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



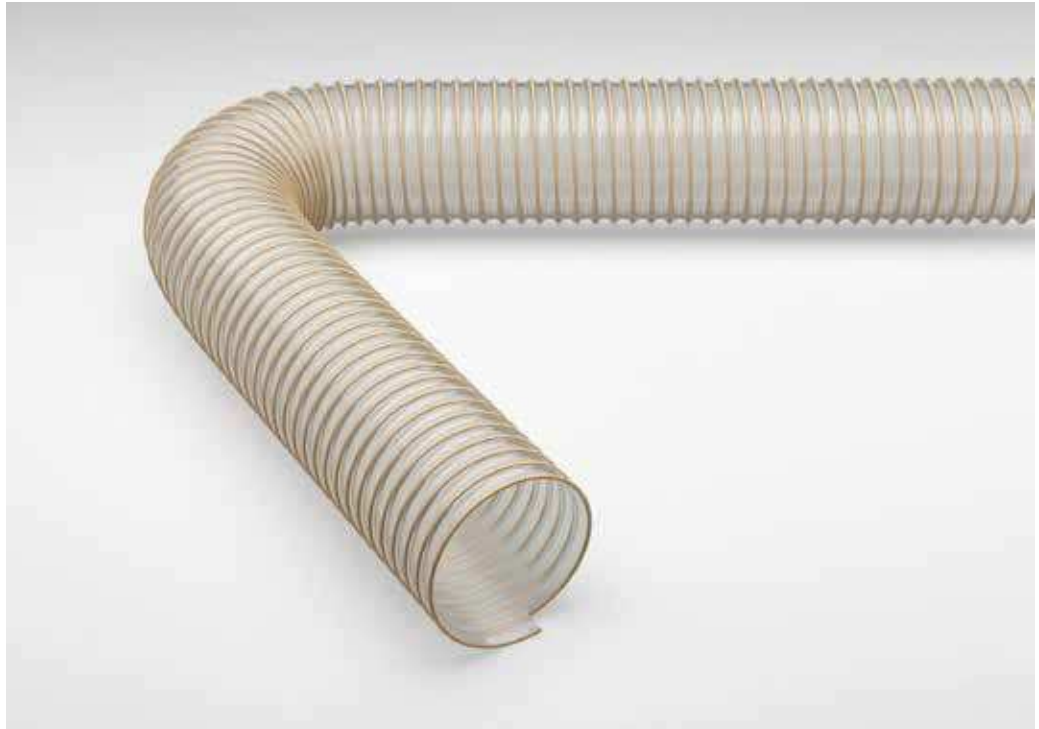
Combiflex PU  
Swivel Flange,  
screwable/fixable

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Master-PUR H-MHR

PU Suction & Transport Hose, medium duty, microbe & hydrolysis-resistant



#### Material

spiral: spring steel wire  
wall: pure polyether polyurethane  
wall thickness between spirals approx. 1.4 mm

#### Applications

- Standard hose for industrial vacuum cleaners
- Granulate transport hose
- Transport of chips/shavings
- Suction and transport of paper fibres
- Oil mist extraction/suction
- Suction & Transport Hose for abrasive solids, for which microbe and hydrolysis resistance is required

#### Properties

- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- extremely flexible, lightweight
- small bending radii
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- microbe and hydrolysis-resistant

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR H-MHR

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	pro- duction lengths
16	4,5	9400	40	22	0,2	111-016-498	10m/15m
20	4,3	9400	43	26	0,22	111-020-498	10m/15m
25	4,16	9400	47	33	0,29	111-025-498	10m/15m
32	3,25	9400	60	41	0,39	111-032-498	10m/15m
38	3,12	8400	69	47	0,46	111-038-498	10m/15m
40	3	8350	72	49	0,49	111-040-498	10m/15m
45	2,95	8250	80	55	0,55	111-045-498	10m/15m
50	2,9	8000	87	61	0,71	111-050-498	10m/15m
55	2,75	7750	95	65	0,77	111-055-498	10m/15m
60	2,55	7500	102	70	0,84	111-060-498	10m/15m
65	2,4	6750	112	75	0,91	111-065-498	10m/15m
70	2,25	6750	117	80	0,97	111-070-498	10m/15m
75	2	6000	126	87	1,06	111-075-498	10m/15m
80	2	6000	132	91	1,11	111-080-498	10m/15m
90	1,65	5250	149	101	1,25	111-090-498	10m/15m
100	1,5	4500	165	112	1,48	111-100-498	10m/15m
110	1,35	4500	179	121	1,61	111-110-498	10m/15m
115	1,35	3125	186	126	1,68	111-115-498	10m/15m
120	1,3	3125	194	131	1,75	111-120-498	10m/15m
125	1,3	3125	203	138	1,91	111-125-498	10m/15m
130	1,3	3125	209	141	1,96	111-130-498	10m/15m
140	1,05	2500	224	151	2,11	111-140-498	10m/15m
150	1,05	2500	242	163	2,29	111-150-498	10m/15m
160	0,9	2500	255	171	2,51	111-160-498	10m/15m
170	0,9	1875	270	181	2,67	111-170-498	10m/15m
175	0,9	1875	278	186	2,74	111-175-498	10m/15m
180	0,75	1875	285	191	2,82	111-180-498	10m/15m
200	0,75	1875	321	215	3,3	111-200-498	10m/15m
225	0,6	1250	353	237	3,65	111-225-498	10m/15m
250	0,6	1250	390	263	3,84	111-250-498	10m/15m
275	0,45	1250	426	288	4,22	111-275-498	10m
280	0,45	1250	435	293	4,3	111-280-498	10m
300	0,45	1250	465	313	4,94	111-300-498	10m
315	0,45	1250	488	328	5,19	111-315-498	10m
325	0,45	1250	503	338	5,35	111-325-498	10m
350	0,45	1250	540	363	6,96	111-350-498	10m
375	0,3	675	580	388	7,45	111-375-498	10m
400	0,3	675	615	413	7,95	111-400-498	10m
450	0,3	675	690	463	8,94	111-450-498	10m
500	0,3	675	765	513	9,93	111-500-498	10m

All data refers to a media and ambient temperature of +20 °C  
\* refers to the inside of the hose

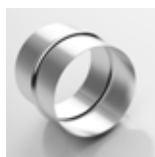
Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.  
Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixable

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Streetmaster GKS

PU Large Street-Cleaner Hose, abrasion/vacuum & microbe-resistant



#### Material

spiral: spring steel wire  
wall: pure polyether polyurethane,  
microbe-resistant  
wall thickness between spirals approx.  
1.8 - 3.4 mm

#### Applications

- Suction & Transport Hose for abrasive solids, which require microbe resistance
- Municipal and waste disposal vehicles
- Suction dredger hose
- Suction hose for larger sweepers

#### Properties

- generally good UV and ozone resistance
- high tensile strength
- flexible
- extremely abrasion-resistant
- axial compressible
- microbe-resistant
- lightweight (compared to rubber)

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Streetmaster GKS

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
225	0,6	3685	525	240	4,7	130-225-407	10m
250	0,6	3235	585	269	5,4	130-250-407	10m
280	0,5	2810	655	295	6,3	130-280-407	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Combiflex PU fixed  
flange



Hose Clamp with Bolts



PU Cuff, pre-fitted

### Streetmaster KKS

PU suction hose  
for smaller street  
cleaning machines,  
abrasion/vacuum &  
microbe-resistant



#### Material

spiral: spring steel wire  
wall: pure polyether polyurethane,  
microbe-resistant  
wall thickness between spirals approx. 1.7 mm

#### Applications

- Suction & Transport Hose for abrasive solids, which require microbe resistance
- Municipal and waste disposal vehicles
- Suction dredger hose
- Suction hose for smaller sweepers

#### Properties

- generally good UV and ozone resistance
- high tensile strength
- flexible
- extremely abrasion-resistant
- axial compressible
- microbe-resistant
- lightweight (compared to rubber)

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Streetmaster KKS

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
200	0,65	1500	266	221	2,8	131-201-407 #	10m
200	0,65	1500	266	228	2,8	131-208-407	10m
200	0,65	1500	266	221	2,8	131-201-401 #	10m
200	0,65	1500	266	228	2,8	131-208-401	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available from stock in the above listed lengths and sizes. Those marked with # only available with Streetmaster Cuffs

Available on request in other lengths, sizes and colours, with print.

Subject to technical changes and colour deviations.



Combiflex PU fixed  
flange



Hose Clamp with Bolts



PU Cuff, pre-fitted

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist



### Streetmaster GKH

PU rear suction hose for larger street cleaners, abrasion/vacuum & microbe-resistant



#### Material

spiral: spring steel wire  
wall: pure polyether polyurethane,  
microbe-resistant  
wall thickness between spirals approx. 1.7 mm

#### Applications

- Suction & Transport Hose for abrasive solids, which require microbe resistance
- Municipal and waste disposal vehicles
- Suction dredger hose
- Rear suction hose for truck-mounted sweepers

#### Properties

- generally good UV and ozone resistance
- high tensile strength
- flexible
- extremely abrasion-resistant
- axial compressible
- microbe-resistant
- lightweight (compared to rubber)

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Streetmaster GKH

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
200	0,65	1500	266	221	2,8	131-201-407 #	10m
200	0,65	1500	266	228	2,8	131-208-407	10m
200	0,65	1500	266	221	2,8	131-201-401 #	10m
200	0,65	1500	266	228	2,8	131-208-401	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available from stock in the above listed lengths and sizes. Those marked with # only available with Streetmaster Cuffs

Available on request in other lengths, sizes and colours, with print.

Subject to technical changes and colour deviations.



Combiflex PU fixed  
flange



Hose Clamp with Bolts



PU Cuff, pre-fitted

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Streetmaster GLG

PU hose for larger leaf & grass suction devices, microbe-resistant



#### Material

spiral: spring steel wire  
wall: pure polyether polyurethane,  
microbe-resistant  
wall thickness between spirals approx. 1.7 mm

#### Applications

- Leaf vacuums/blowers
- Transport hose for abrasive solids, which require microbe resistance
- Slope cutters

#### Properties

- generally good UV and ozone resistance
- high tensile strength
- flexible
- extremely abrasion-resistant
- axial compressible
- microbe-resistant
- lightweight (compared to rubber)

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Streetmaster GLG

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
400	0,35	500	510	414	6,5	133-400-407	10m

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with Bolts



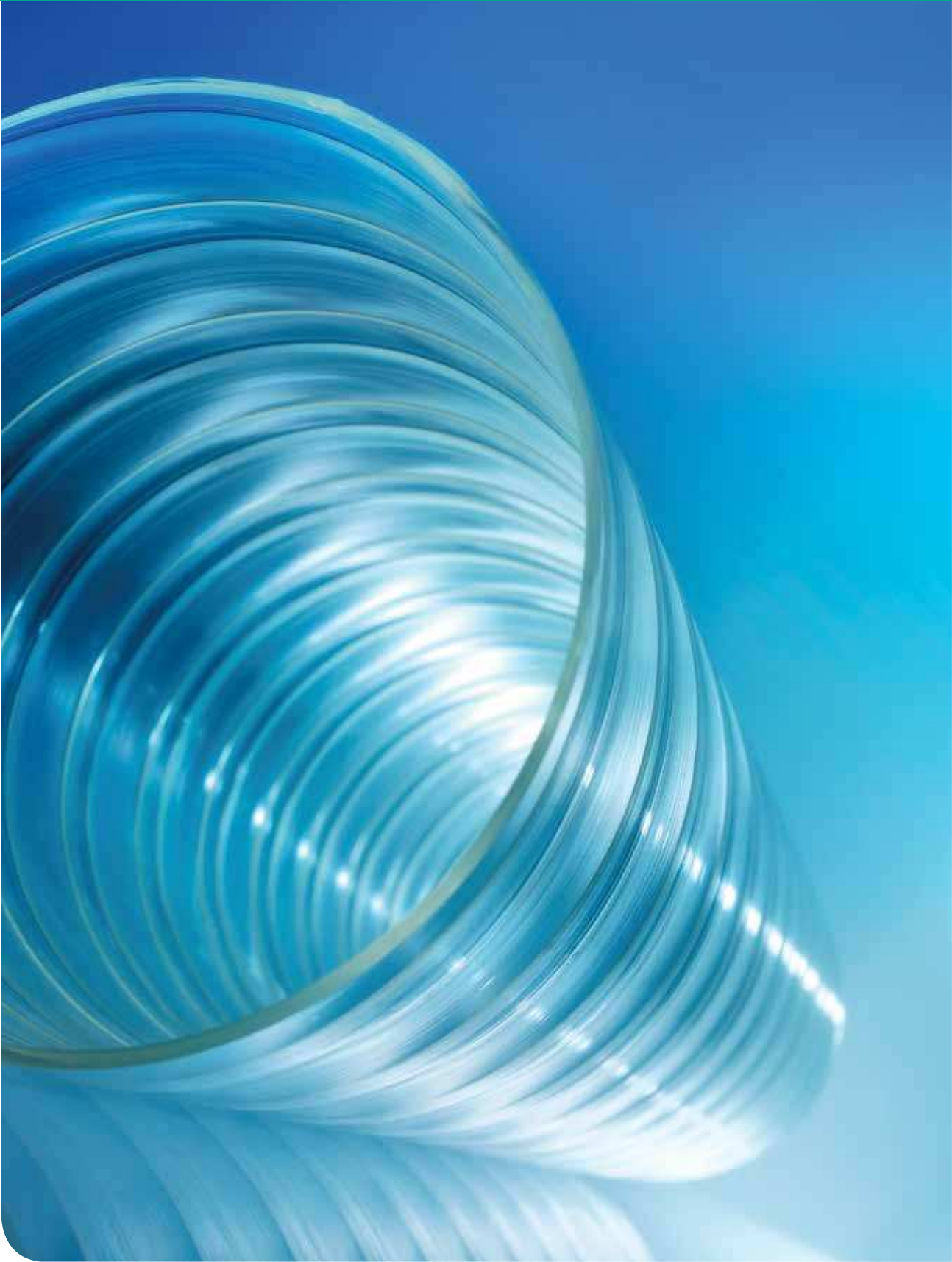
PU Cuff, pre-fitted



# 5

## Food & Pharmaceutical Hoses

**Smoother hoses made from pure Polyether-Polyurethane, certified to EU directives & FDA compliant for almost any application in the Food & Pharmaceutical industries**



### Master-PUR L-F Food

PU Suction & Transport Hose, super lightweight, Food-Grade Quality (FDA)



#### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

spiral: anti-rust spring steel wire (material no. 1.4310)

wall thickness between spirals approx. 0.5 mm

#### Applications

- Pharmaceutical industry
- Suction & Transport Hose for the food industry
- Chemicals

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

#### Properties

- halogen and plasticizer-free
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- extremely lightweight
- microbe and hydrolysis-resistant
- odourless/tasteless
- hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

## Master-PUR L-F Food

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
40	0,82	2450	20	46	0,28	310-040-501	/
50	0,78	2050	25	57	0,34	310-050-501	10m
60	0,76	1900	35	68	0,35	310-060-501	/
70	0,61	1600	40	78	0,41	310-070-501	/
75	0,61	1300	43	83	0,53	310-075-501	/
80	0,53	1300	45	88	0,53	310-080-501	/
90	0,46	950	50	99	0,6	310-090-501	/
100	0,46	950	55	108	0,69	310-100-501	10m
110	0,38	950	60	119	0,73	310-110-501	/
120	0,38	950	65	129	0,82	310-120-501	10m
125	0,38	950	70	134	0,85	310-125-501	10m
150	0,3	650	80	159	1,02	310-150-501	10m
160	0,3	650	85	169	1,23	310-160-501	10m
180	0,23	650	95	189	1,38	310-180-501	10m
200	0,23	650	105	210	1,52	310-200-501	10m
250	0,15	300	130	260	1,49	310-250-501	/
300	0,14	285	155	310	1,78	310-300-501	/
315	0,14	270	162	325	1,87	310-315-501	/
350	0,12	250	180	360	2,44	310-350-501	/
400	0,12	250	210	410	3,04	310-400-501	/

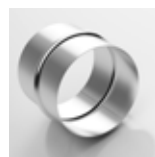
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Reducer,  
symmetrical



Combiflex PU Cast-On  
Connectors, Food



Hose Connector



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist



### Master-PUR L-F Food A

PU Suction & Transport Hose, super lightweight, Food-Grade Quality (FDA), antistatic <math>< 10^9</math> Ohm



#### Material

spiral: anti-rust spring steel wire (material no. 1.4310)  
wall: pure polyether polyurethane, food-grade (FDA), with non-migratory permanent anti-static agent  
wall thickness between spirals approx. 0.5 mm

#### Applications

- Pharmaceutical industry
- Suction & Transport Hose for the food industry
- Chemicals

#### Properties

- halogen and plasticizer-free
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- extremely lightweight
- EU guidelines 2002/72/EU and most recent amending directives
- microbe and hydrolysis-resistant
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- odourless/tasteless
- surface resistance  $\leq 10^9$  Ohm
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR L-F Food A

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
100	0,46	950	55	108	0,69	310-100-571	10m
120	0,38	950	65	129	0,82	310-120-571	/
125	0,38	950	70	134	0,85	310-125-571	/
150	0,3	650	80	159	1,02	310-150-571	/
160	0,3	650	85	169	1,23	310-160-571	/
180	0,23	650	95	189	1,38	310-180-571	/
200	0,23	650	105	210	1,52	310-200-571	10m

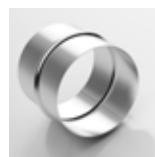
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Reducer,  
symmetrical



Combiflex PU Cast-On  
Connectors, Food



Hose Connector



Master-Grip Hose  
Clamp, screwable



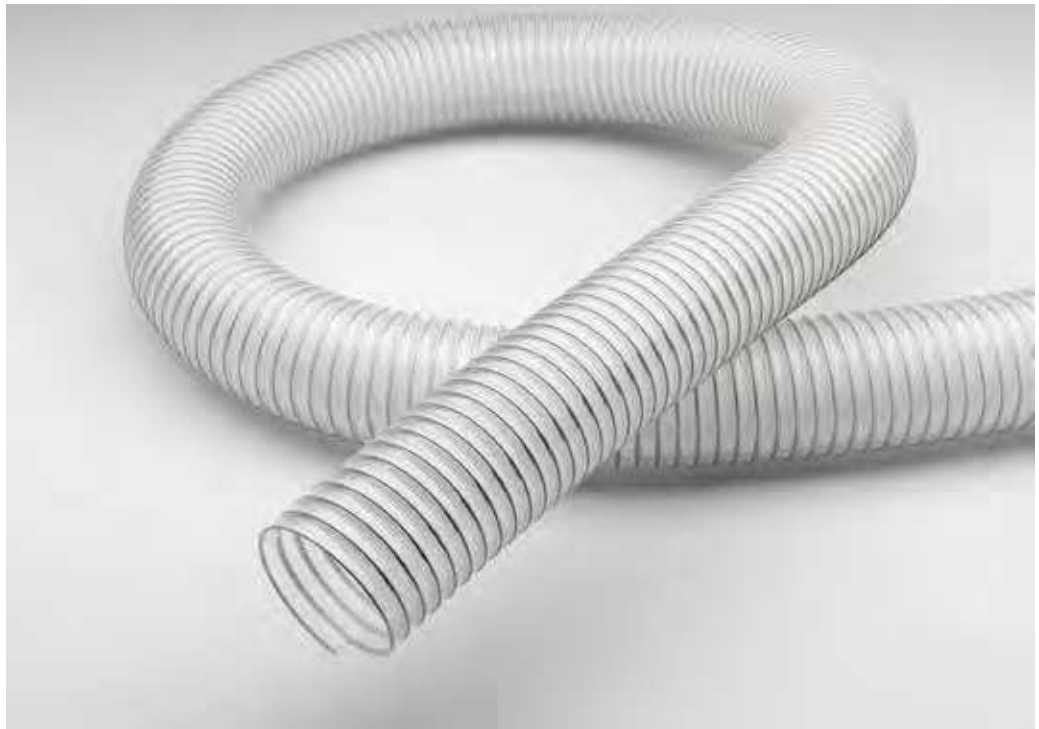
Master-Grip Quick-Fix  
Clamp

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Master-PUR L Food

PU Suction & Transport Hose, light duty, Food-Grade Quality (FDA)



#### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

spiral: anti-rust spring steel wire (material no. 1.4310)

wall thickness between spirals approx. 0.7 mm

#### Applications

- Pharmaceutical industry
- Suction & Transport Hose for the food industry
- Chemicals

#### Properties

- halogen and plasticizer-free
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- microbe and hydrolysis-resistant
- odourless/tasteless
- hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR L Food

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
32	2,52	7250	40	40	0,35	110-032-501	10m
38	2,1	6750	50	46	0,39	110-038-501	10m
40	2,1	6750	48	48	0,4	110-040-501	10m
45	1,84	6000	53	53	0,44	110-045-501	/
50	1,68	5250	58	58	0,45	110-050-501	10m
55	1,54	4500	63	63	0,54	110-055-501	/
60	1,4	4500	68	68	0,53	110-060-501	10m
65	1,26	3750	75	73	0,64	110-065-501	10m
70	1,12	3750	80	78	0,68	110-070-501	10m
75	1,12	3000	85	84	0,72	110-075-501	10m
80	0,98	3000	90	88	0,76	110-080-501	10m
90	0,84	2250	99	99	0,88	110-090-501	/
100	0,84	2250	110	110	0,95	110-100-501	10m
110	0,7	2250	119	119	1,23	110-110-501	/
115	0,7	2250	124	124	1,28	110-115-501	/
120	0,7	2250	130	129	1,12	110-120-501	/
125	0,7	2250	135	135	1,18	110-125-501	10m
130	0,56	2250	141	140	1,53	110-130-501	/
140	0,56	1500	153	150	1,74	110-140-501	/
150	0,56	1500	165	161	1,48	110-150-501	10m
160	0,56	1500	170	170	1,74	110-160-501	10m
175	0,42	1500	185	185	2,31	110-175-501	/
180	0,42	1500	190	190	1,9	110-180-501	/
200	0,42	1500	215	214	2,3	110-200-501	10m

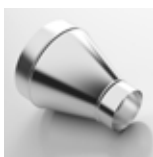
All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available from stock in the above listed lengths and sizes.

Available on request in other lengths, sizes and colours, with print.

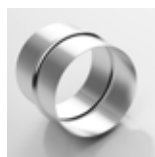
Subject to technical changes and colour deviations.



Hose Reducer,  
symmetrical



Combiflex PU Cast-On  
Connectors, Food



Hose Connector



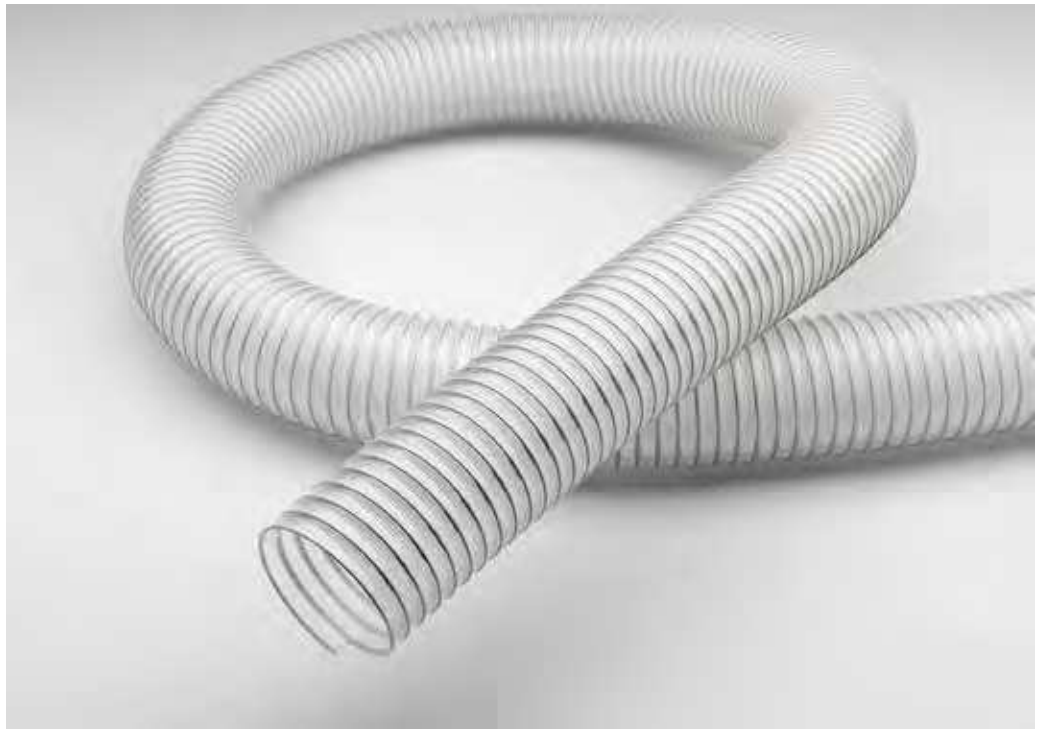
Master-Grip Hose  
Clamp, screwable

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Master-PUR L Food A

PU Suction & Transport Hose, light duty, Food-Grade Quality (FDA), antistatic, surface resistance  $<10^9 \text{ Ohm}$



#### Material

spiral: anti-rust spring steel wire (material no. 1.4310)  
wall: pure polyether polyurethane, food-grade (FDA), with non-migratory permanent anti-static agent  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Pharmaceutical industry
- Suction & Transport Hose for the food industry
- Chemicals

#### Properties

- halogen and plasticizer-free
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- EU guidelines 2002/72/EU and most recent amending directives
- microbe and hydrolysis-resistant
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- odourless/tasteless
- surface resistance  $\leq 10^9 \text{ Ohm}$
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR L Food A

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
32	2,52	7250	40	40	0,35	110-032-571	/
38	2,1	6750	50	46	0,39	110-038-571	/
40	2,1	6750	50	48	0,4	110-040-571	10m
50	1,68	5250	60	58	0,45	110-050-571	10m
60	1,4	4500	70	68	0,53	110-060-571	10m
65	1,26	3750	75	73	0,61	110-065-571	10m
70	1,12	3750	80	78	0,68	110-070-571	/
75	1,12	3000	85	84	0,72	110-075-571	10m
80	0,98	3000	90	88	0,76	110-080-571	10m
100	0,84	2250	110	110	0,95	110-100-571	10m
120	0,7	2250	130	129	1,12	110-120-571	/
125	0,7	2250	135	135	1,18	110-125-571	10m
150	0,56	1500	165	161	1,48	110-150-571	10m
160	0,56	1500	170	170	1,74	110-160-571	/
180	0,42	1500	190	190	1,9	110-180-571	/
200	0,42	1500	215	214	2,3	110-200-571	10m

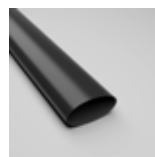
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



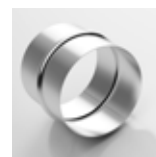
Hose Reducer,  
symmetrical



Combiflex PU Cast-On  
Connectors, Food



Heat-Shrink Cuff



Hose Connector



Master-Grip Hose  
Clamp, screwable

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Master-PUR H Food

PU Suction & Transport Hose, medium duty, Food-Grade Quality (FDA)



#### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

spiral: anti-rust spring steel wire (material no. 1.4310)

wall thickness between spirals approx. 1.4 mm

#### Applications

- Suction & transport hose for the food industry for solids and liquids
- Pharmaceutical industry
- Chemicals

#### Temperature Range

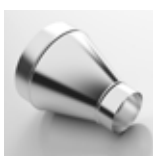
- -40°C to +90°C
- peaks to +125°C

#### Properties

- halogen and plasticizer-free
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- small bending radii
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- microbe and hydrolysis-resistant
- extremely flexible
- odourless/tasteless
- hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
20	4,3	9400	45	28	0,22	111-020-501	10m
25	4,16	9400	50	33	0,29	111-025-501	10m
30	3,51	9400	56	39	0,37	111-030-501	10m
32	3,25	9400	60	41	0,39	111-032-501	10m
38	3,12	8400	70	47	0,46	111-038-501	10m
40	3	8350	70	49	0,49	111-040-501	10m
45	2,95	8250	80	55	0,55	111-045-501	/
50	2,9	8000	87	61	0,71	111-050-501	10m
55	2,75	7750	95	65	0,83	111-055-501	/
60	2,55	7500	105	70	0,84	111-060-501	10m
65	2,4	6750	115	75	0,91	111-065-501	10m
70	2,25	6750	120	80	0,97	111-070-501	10m
75	2	6000	125	87	1,06	111-075-501	10m
80	2	6000	135	91	1,12	111-080-501	10m
90	1,65	5250	149	101	1,25	111-090-501	/
100	1,5	4500	165	112	1,48	111-100-501	10m
115	1,35	3125	186	126	1,85	111-115-501	/
120	1,3	3125	195	131	1,5	111-120-501	/
125	1,3	3125	205	138	1,91	111-125-501	10m
130	1,3	3125	209	141	2,32	111-130-501	/
140	1,05	2500	224	151	2,5	111-140-501	/
150	1,05	2500	245	163	2,29	111-150-501	10m
160	0,9	2500	255	171	2,22	111-160-501	10m
170	0,9	1875	255	181	3,17	111-170-501	/
175	0,9	1875	255	186	3,31	111-175-501	/
180	0,75	1875	285	191	2,61	111-180-501	/
200	0,75	1875	325	215	3,3	111-200-501	10m
250	0,6	1250	390	263	4,8	111-250-501	/

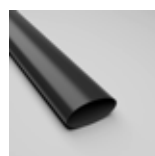
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



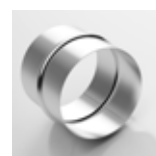
Hose Reducer,  
symmetrical



Combiflex PU Cast-On  
Connectors, Food



Heat-Shrink Cuff



Hose Connector



Master-Grip Hose  
Clamp, screwable



### Master-PUR H Food A

PU Suciton & Transport Hose, medium duty, Food-Grade Quality (FDA), antistatic, surface resistance  $<10^9$  Ohm



#### Material

spiral: anti-rust spring steel wire (material no. 1.4310)  
wall: pure polyether polyurethane, food-grade (FDA), with non-migratory permanent anti-static agent  
wall thickness between spirals approx. 1.4 mm

#### Applications

- Suction & transport hose for the food industry for solids and liquids
- Pharmaceutical industry
- Chemicals

#### Properties

- halogen and plasticizer-free
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- small bending radii
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- EU guidelines 2002/72/EU and most recent amending directives
- microbe and hydrolysis-resistant
- extremely flexible
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- odourless/tasteless
- antistatic, surface resistance  $< 10^9$  Ohm
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

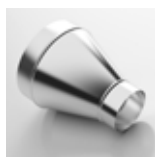
## Master-PUR H Food A

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
20	4,3	9400	45	28	0,25	111-020-571	/
25	4,16	9400	50	33	0,31	111-025-571	/
32	3,25	9400	60	41	0,45	111-032-571	10m
38	3,12	8400	70	47	0,51	111-038-571	10m
40	3	8350	75	49	0,56	111-040-571	10m
50	2,9	8000	90	61	0,71	111-050-571	10m
60	2,55	7500	105	70	0,82	111-060-571	10m
65	2,4	6750	115	75	0,89	111-065-571	10m
70	2,25	6750	120	80	0,97	111-070-571	/
75	2	6000	125	87	1,03	111-075-571	10m
80	2	6000	135	91	1,12	111-080-571	10m
100	1,5	4500	165	112	1,3	111-100-571	10m
120	1,3	3125	195	131	1,5	111-120-571	/
125	1,3	3125	205	138	1,63	111-125-571	10m
150	1,05	2500	245	163	1,92	111-150-571	10m
160	0,9	2500	255	171	2,22	111-160-571	/
180	0,75	1875	285	191	2,61	111-180-571	/
200	0,75	1875	325	215	2,89	111-200-571	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



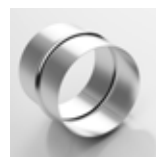
Master-Grip Quick-Fix  
Clamp



Hose Reducer,  
symmetrical



Combiflex PU Cast-On  
Connectors, Food



Hose Connector



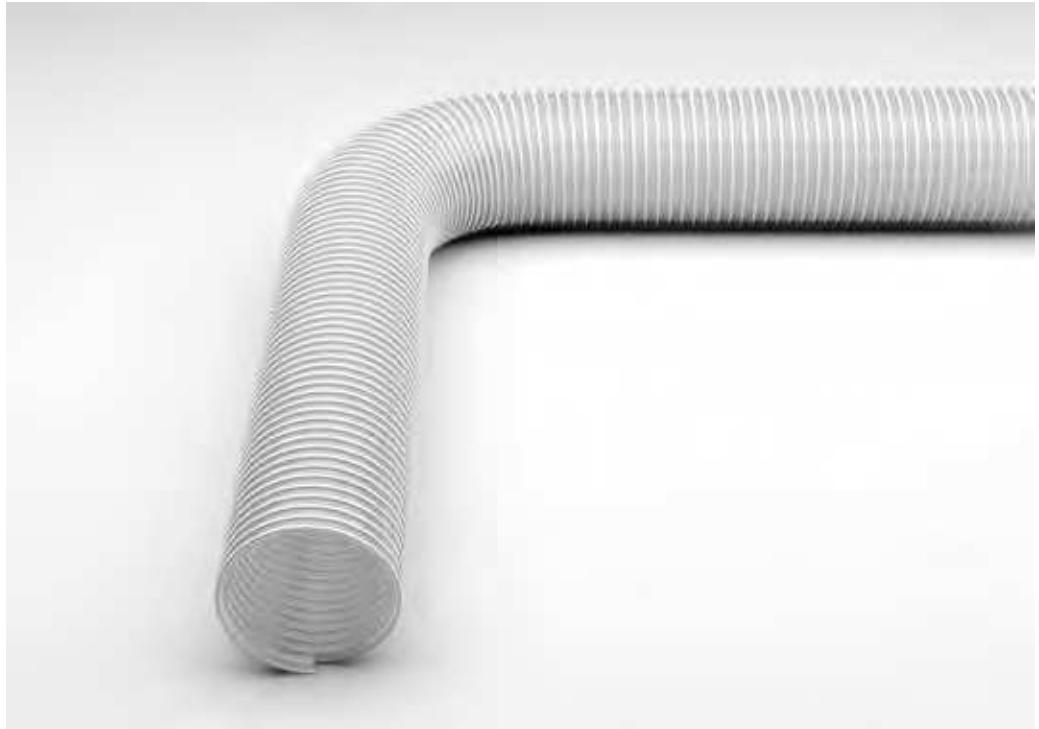
Master-Grip Hose  
Clamp, screwable

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

## Master-PUR HX Food

PU Suction & Transport Hose, heavy duty, Food-Grade Quality (FDA)



### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

spiral: anti-rust spring steel wire (material no. 1.4310)

wall thickness between spirals approx. 1.7 - 2.1 mm, depending on DN

### Applications

- Pharmaceutical industry
- Suction & Transport Hose for the food industry
- Chemicals

### Properties

- halogen and plasticizer-free
- extremely abrasion-resistant via specific reinforcements underneath the spiral
- good flexibility
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- microbe and hydrolysis-resistant
- odourless/tasteless
- hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR HX Food

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
32	4,85	9600	80	42	0,66	114-032-501	/
40	4,27	9600	100	50	0,83	114-040-501	/
50	4	9600	125	61	1,04	114-050-501	10m
55	3,75	9100	140	65	1,1	114-055-501	/
60	3,6	9100	150	70	1,2	114-060-501	10m
65	3,3	9100	165	75	1,29	114-065-501	10m
70	3,15	9100	175	80	1,38	114-070-501	10m
75	2,92	9100	190	87	1,61	114-075-501	10m
80	2,77	9100	200	93	1,93	114-080-501	10m
90	2,4	9100	225	103	2,16	114-090-501	/
100	2,1	8900	250	115	2,6	114-100-501	10m
110	1,95	8900	275	124	2,82	114-110-501	/
115	1,8	8900	290	129	2,94	114-115-501	/
120	1,65	8900	300	134	3,07	114-120-501	/
125	1,65	8900	315	140	3,44	114-125-501	10m
130	1,65	8550	325	145	3,54	114-130-501	/
140	1,5	8460	350	153	3,81	114-140-501	/
150	1,5	8370	450	167	4,13	114-150-501	10m

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Combiflex PU Cast-On  
Connectors, Food



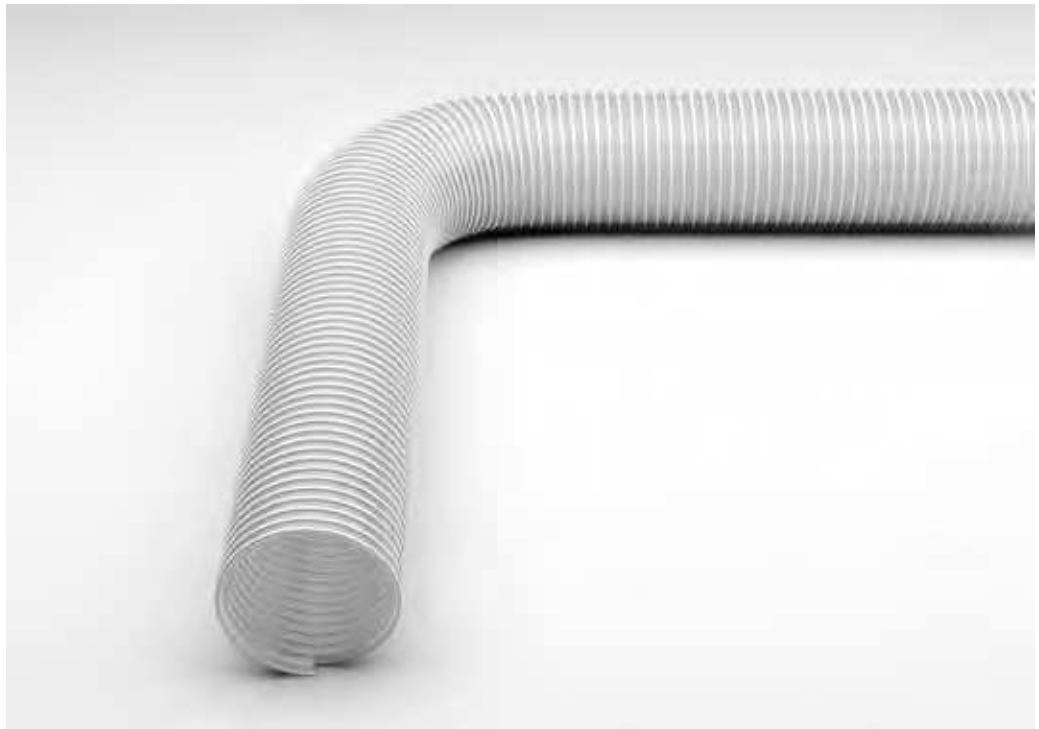
Hose Clamp with Bolts

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Master-PUR HX Food A

PU suction & Transport Hose, heavy duty, Food-Grade Quality (FDA), antistatic, surface resistance <math>10^9</math> Ohm



#### Material

spiral: anti-rust spring steel wire (material no. 1.4310)  
wall: pure polyether polyurethane, food-grade (FDA), with non-migratory permanent anti-static agent  
wall thickness between spirals approx. 1.7 - 2.1 mm, depending on DN

#### Applications

- Suction & transport hose for the food industry for solids and liquids
- Pharmaceutical industry
- Chemicals

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

#### Properties

- halogen and plasticizer-free
- extremely abrasion resistant via specific reinforcements underneath the spiral
- good flexibility
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- EU guidelines 2002/72/EU and most recent amending directives
- microbe and hydrolysis-resistant
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- odourless/tasteless
- surface resistance  $\leq 10^9$  Ohm
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

## Master-PUR HX Food A

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	pro- duction lengths
50	4	9600	125	61	1,04	114-050-571	10m
60	3,6	9100	150	70	1,2	114-060-571	10m
65	3,3	9100	165	75	1,29	114-065-571	10m
70	3,15	9100	175	80	1,38	114-070-571	10m
75	2,92	9100	190	87	1,61	114-075-571	10m
80	2,77	9100	200	93	1,93	114-080-571	10m
100	2,1	8900	250	115	2,6	114-100-571	10m
125	1,65	8900	315	140	3,44	114-125-571	10m
150	1,5	8370	450	167	4,13	114-150-571	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.  
Subject to technical changes and colour deviations.



Combiflex PU Cast-On  
Connectors, Food



Hose Clamp with Bolts

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Polderflex PUR Food

PU Suction & Transport Hose, extremely pressure/vacuum-proof, smooth inner & outer linings



#### Material

spiral: anti-rust spring steel wire (material no. 1.4310)  
wall: pure polyether polyurethane, food-grade (FDA), wall thickness 3-5 mm depending on DN

#### Applications

- Suction & transport hose for the food industry for solids and liquids
- Pharmaceutical industry
- Chemicals

#### Properties

- halogen and plasticizer-free
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- increased pressure and vacuum resistance
- high tensile strength
- optimum flow characteristics
- flexible
- microbe and hydrolysis-resistant
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- odourless/tasteless
- EU guideline 2002/72/EU, 2007/19/EU, 2008/39/EU and 975/2009/EU
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Polderflex PUR Food

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
32	5,75	9500	160	41,5	0,88	118-032-571	/
38	5,625	9500	190	47,5	1,03	118-038-571	10m
40	5,5	9500	200	49,5	1,07	118-040-571	10m
45	5,375	9500	225	54,5	1,2	118-045-571	/
50	5,25	9500	250	62,5	1,25	118-050-571	10m
60	5,125	9500	300	71,5	1,44	118-060-571	/
65	5,1	9500	325	76,5	1,56	118-065-571	/
70	5,05	9500	350	81,5	1,77	118-070-571	/
75	5	9500	380	87,5	1,92	118-075-571	10m
80	4,5	9000	400	91,5	2,01	118-080-571	/
100	4,125	8750	600	113	3,1	118-100-571	10m
125	3,25	6500	700	138,5	3,85	118-125-571	/
150	2,125	4250	800	164	4,59	118-150-571	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.

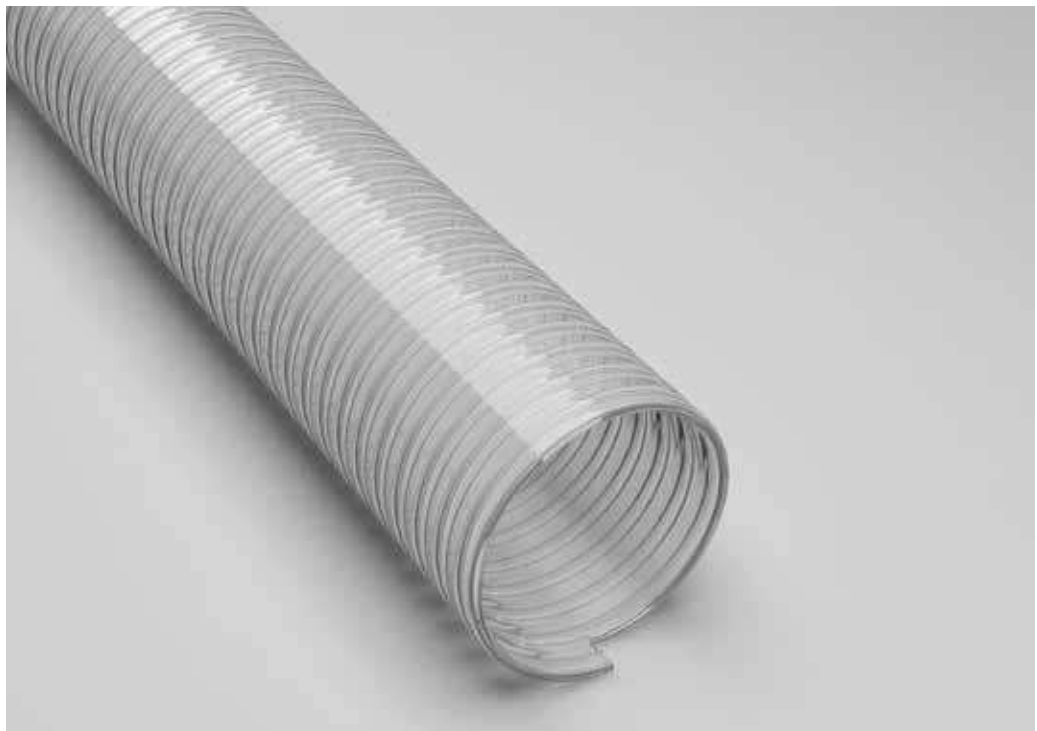


Hose Clamp with Bolts



### Polderflex PUR Food A

PU Suction & Transport Hose, extremely pressure/vacuum-proof, smooth inner & outer linings, antistatic, surface resistance < 10<sup>9</sup> Ohm.



#### Material

spiral: anti-rust spring steel wire (material no. 1.4310)  
wall: pure polyether polyurethane, food-grade (FDA), with non-migratory permanent anti-static agent  
wall thickness 3-5 mm depending on DN

#### Applications

- Suction & transport hose for the food industry for solids and liquids
- Pharmaceutical industry
- Chemicals

#### Properties

- halogen and plasticizer-free
- good chemical resistance
- generally good UV and ozone resistance
- gas-tight
- increased pressure and vacuum resistance
- high tensile strength
- optimum flow characteristics
- flexible
- microbe and hydrolysis-resistant
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- odourless/tasteless
- antistatic, surface resistance < 10<sup>9</sup> Ohm
- EU guideline 2002/72/EU, 2007/19/EU, 2008/39/EU and 975/2009/EU
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Polderflex PUR Food A

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
32	5,75	9500	160	41,5	0,88	118-032-571	/
38	5,625	9500	190	47,5	1,03	118-038-571	10m
40	5,5	9500	200	49,5	1,07	118-040-571	10m
45	5,375	9500	225	54,5	1,2	118-045-571	/
50	5,25	9500	250	62,5	1,25	118-050-571	10m
60	5,125	9500	300	71,5	1,44	118-060-571	/
65	5,1	9500	325	76,5	1,56	118-065-571	/
70	5,05	9500	350	81,5	1,77	118-070-571	/
75	5	9500	380	87,5	1,92	118-075-571	10m
80	4,5	9000	400	91,5	2,01	118-080-571	/
100	4,125	8750	600	113	3,1	118-100-571	10m
125	3,25	6500	700	138,5	3,85	118-125-571	/
150	2,125	4250	800	164	4,59	118-150-571	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations



Hose Clamp with Bolts

### Master-PUR Flat L Food

Spiral-Free PU  
Transport Hose,  
light duty,  
Food-Grade Quality  
(FDA)



#### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

wall thickness approx. 1.0 mm

#### Applications

- Application as compensator
- Spiral-Free Transport Hose for abrasive solids
- Solids transport for sieving machines
- Conductor hose on charging station

#### Properties

- extremely flexible
- highly abrasion-resistant
- generally good UV and ozone resistance
- free of halogens and plasticizers
- high tensile strength
- optimum flow characteristics
- microbe and hydrolysis-resistant
- smooth inner lining
- extremely vibration-resistant
- permanently kink-resistant
- solvent, oil and petroleum-proof
- gas/watertight
- hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR Flat L Food

DN	weight c. kg/m	article no.	stock length				
50	0,23	313-050-501	/				
60	0,28	313-060-501	/				
63	0,29	313-063-501	/				
65	0,29	313-065-501	/				
70	0,32	313-070-501	/				
75	0,34	313-075-501	/				
80	0,36	313-080-501	5m				
90	0,41	313-090-501	/				
100	0,44	313-100-501	5m				
110	0,47	313-110-501	/				
115	0,49	313-115-501	/				
120	0,52	313-120-501	/				
125	0,53	313-125-501	5m				
130	0,55	313-130-501	/				
140	0,59	313-140-501	/				
150	0,64	313-150-501	5m				
160	0,68	313-160-501	/				
170	0,72	313-170-501	/				
175	0,75	313-175-501	/				
180	0,77	313-180-501	/				
200	0,82	313-200-501	5m				
225	0,92	313-225-501	/				
250	1,03	313-250-501	5m				
275	1,13	313-275-501	/				
280	1,14	313-280-501	/				
300	1,23	313-300-501	5m				

All data refers to a media and ambient temperature of +20 °C  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes, colours, with print, with flexible earthing lead.  
 Subject to technical changes and colour deviations.



Hose Clamp with  
Worm-Gear Drive



Hose Clamp with Bolts

### Master-PUR Flat H Food

Spiral-Free PU  
Transport Hose,  
medium duty,  
Food-Grade Quality  
(FDA)



#### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

wall thickness approx. 1.5 mm

#### Applications

- Application as compensator
- Spiral-Free Transport Hose for abrasive solids
- Solids transport for sieving machines
- Conductor hose on charging station

#### Properties

- extremely flexible
- highly abrasion-resistant
- generally good UV and ozone resistance
- free of halogens and plasticizers
- high tensile strength
- optimum flow characteristics
- microbe and hydrolysis-resistant
- smooth inner lining
- extremely vibration-resistant
- permanently kink-resistant
- solvent, oil and petroleum-proof
- gas/watertight
- hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR Flat H Food

DN	weight c. kg/m	article no.	stock length				
50	0,32	314-050-501	/				
60	0,38	314-060-501	/				
63	0,39	314-063-501	/				
65	0,4	314-065-501	/				
70	0,43	314-070-501	/				
75	0,46	314-075-501	/				
80	0,49	314-080-501	5m				
90	0,56	314-090-501	/				
100	0,62	314-100-501	5m				
110	0,67	314-110-501	/				
115	0,7	314-115-501	/				
120	0,73	314-120-501	/				
125	0,76	314-125-501	5m				
130	0,78	314-130-501	/				
140	0,85	314-140-501	/				
150	0,91	314-150-501	5m				
160	0,97	314-160-501	/				
170	1,03	314-170-501	/				
175	1,06	314-175-501	/				
180	1,09	314-180-501	/				
200	1,21	314-200-501	5m				
225	1,36	314-225-501	/				
250	1,51	314-250-501	5m				
275	1,66	314-275-501	/				
280	1,68	314-280-501	/				
300	1,81	314-300-501	/				

All data refers to a media and ambient temperature of +20 °C  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes, colours, with print, with flexible earthing lead.  
 Subject to technical changes and colour deviations.



Hose Clamp with  
Worm-Gear Drive



Hose Clamp with Bolts

### Master-PUR Flat HX Food

Spiral-Free PU  
Transport Hose,  
heavy duty,  
Food-Grade Quality  
(FDA)



#### Material

wall: pure polyether polyurethane, food-grade quality (FDA)

wall thickness approx. 2.0 mm

#### Applications

- Application as compensator
- Spiral-Free Transport Hose for abrasive solids
- Solids transport for sieving machines
- Conductor hose on charging station

#### Properties

- extremely flexible
- highly abrasion-resistant
- generally good UV and ozone resistance
- free of halogens and plasticizers
- high tensile strength
- optimum flow characteristics
- materials adhere to the following food-grade regulations:
  - microbe and hydrolysis-resistant
  - smooth inner lining
  - extremely vibration-resistant
  - permanently kink resistant
  - solvent, oil and petroleum-proof
  - gas/watertight
- hoses comply with the following European food regulations:
  - EU Regulations 1935/2004, 10/2011 and 1282/2011
- materials comply with the following food regulations:
  - FDA 21 CFR §177.2600
  - FDA 21 CFR §178.2010

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR Flat HX Food

DN	weight c. kg/m	article no.	production lengths				
50	0,4	315-050-501	5m				
60	0,48	315-060-501	5m				
63	0,49	315-063-501	5m				
65	0,51	315-065-501	5m				
70	0,54	315-070-501	5m				
75	0,58	315-075-501	5m				
80	0,62	315-080-501	5m				
90	0,7	315-090-501	5m				
100	0,78	315-100-501	5m				
110	0,84	315-110-501	5m				
115	0,88	315-115-501	5m				
120	0,93	315-120-501	5m				
125	0,96	315-125-501	5m				
130	0,99	315-130-501	5m				
140	1,07	315-140-501	5m				
150	1,15	315-150-501	5m				
160	1,23	315-160-501	5m				
170	1,3	315-170-501	5m				
175	1,34	315-175-501	5m				
180	1,38	315-180-501	5m				
200	1,53	315-200-501	5m				
225	1,72	315-225-501	5m				
250	1,92	315-250-501	5m				
275	2,1	315-275-501	5m				
280	2,13	315-280-501	5m				
300	2,29	315-300-501	5m				

All data refers to a media and ambient temperature of +20 °C  
 Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with  
Worm-Gear Drive



Hose Clamp with Bolts

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist



### Master-SIL HD Food

#### Silicone Pressure Hose, Food-Grade Quality (FDA)



#### Material

spiral: anti-rust spring steel wire  
(material no. 1.4310)

wall: multi-layered polyester fabric coated  
with transparent silicone, outer lining white,  
food-grade (FDA)

#### Applications

- Pharmaceutical industry
- Chemicals
- When using the corresponding connectors,  
the hose can remain in the pipeline for  
cleaning
- Suction and transport hose for powder and  
liquid media in the food industry
- Machine development for cosmetic  
products

#### Properties

- good chemical resistance
- gas-tight
- small bending radii
- optimum flow characteristics
- smooth inner and outer linings
- extremely flexible
- odourless/tasteless
- high pressure resistance
- steam-resistant

#### Temperature Range

- -60°C to +200°C

## Master-SIL HD Food

DN	op. pressure c. Bar	vacuum c. mmWC	bend radius c. mm	outer Ø c. mm	weight c. kg/m	article no.	pro- duction lengths
10	12	9000	50	22	0,44	684-010-301	20m
13	11	9000	52	25	0,48	684-013-301	20m
16	10	9000	60	29	0,56	684-016-301	20m
19	10	9000	66	32	0,7	684-019-301	20m
25	9	9000	86	38	0,83	684-025-301	20m
32	8	9000	110	45	1,1	684-032-301	20m
38	7	9000	130	52	1,39	684-038-301	20m
51	6	9000	200	64	1,8	684-051-301	20m
65	5	9000	250	79	2,18	684-065-301	20m
75	4	9000	350	89	2,83	684-075-301	20m
100	2	9000	500	114	3,68	684-100-301	20m

All data refers to a media and ambient temperature of +20 °C  
 Available on request in above listed lengths, sizes and colours. Alternatively, other lengths, sizes, colours, with print.  
 Subject to technical changes and colour deviations.



Clamp Connector,  
pressed



Hose Clamp with Bolts

### Master-SIL SD Food

#### Silicone Pressure Hose, Food-Grade Quality (FDA)



#### Material

spiral: anti-rust spring steel wire  
(material no. 1.4310)

wall: multi-layered polyester fabric coated  
with transparent silicone, outer lining white,  
food-grade (FDA)

#### Applications

- Pharmaceutical industry
- Chemicals
- When using the corresponding connectors,  
the hose can remain in the pipeline for  
cleaning
- Suction and transport hose for powder and  
liquid media in the food industry
- Machine development for cosmetic  
products

#### Properties

- good chemical resistance
- gas-tight
- small bending radii
- optimum flow characteristics
- smooth inner and outer linings
- extremely flexible
- odourless/tasteless
- high pressure resistance
- steam-resistant

#### Temperature Range

- -60°C to +200°C

## Master-SIL SD Food

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm	outer Ø c. mm	weight c. kg/m	article no.	production lengths
10	12	9000	30	20	0,39	684-010-401	20m
13	11	9000	40	23	0,42	684-013-401	20m
16	10	9000	45	26	0,5	684-016-401	20m
19	10	9000	55	29	0,57	684-019-401	20m
25	9	9000	65	35	0,71	684-025-401	20m
32	8	9000	95	42	0,87	684-032-401	20m
38	7	9000	110	48	1,1	684-038-401	20m
51	6	9000	150	60	1,37	684-051-401	20m
65	5	9000	180	75	1,8	684-065-401	20m
75	4	9000	240	87	2,15	684-075-401	20m
100	2,5	9000	360	112	3,1	684-100-401	20m

All data refers to a media and ambient temperature of +20 °C  
 Available on request in above listed lengths, sizes and colours. Alternatively, other lengths, sizes, colours, with print.  
 Subject to technical changes and colour deviations.



Clamp Connector,  
pressed



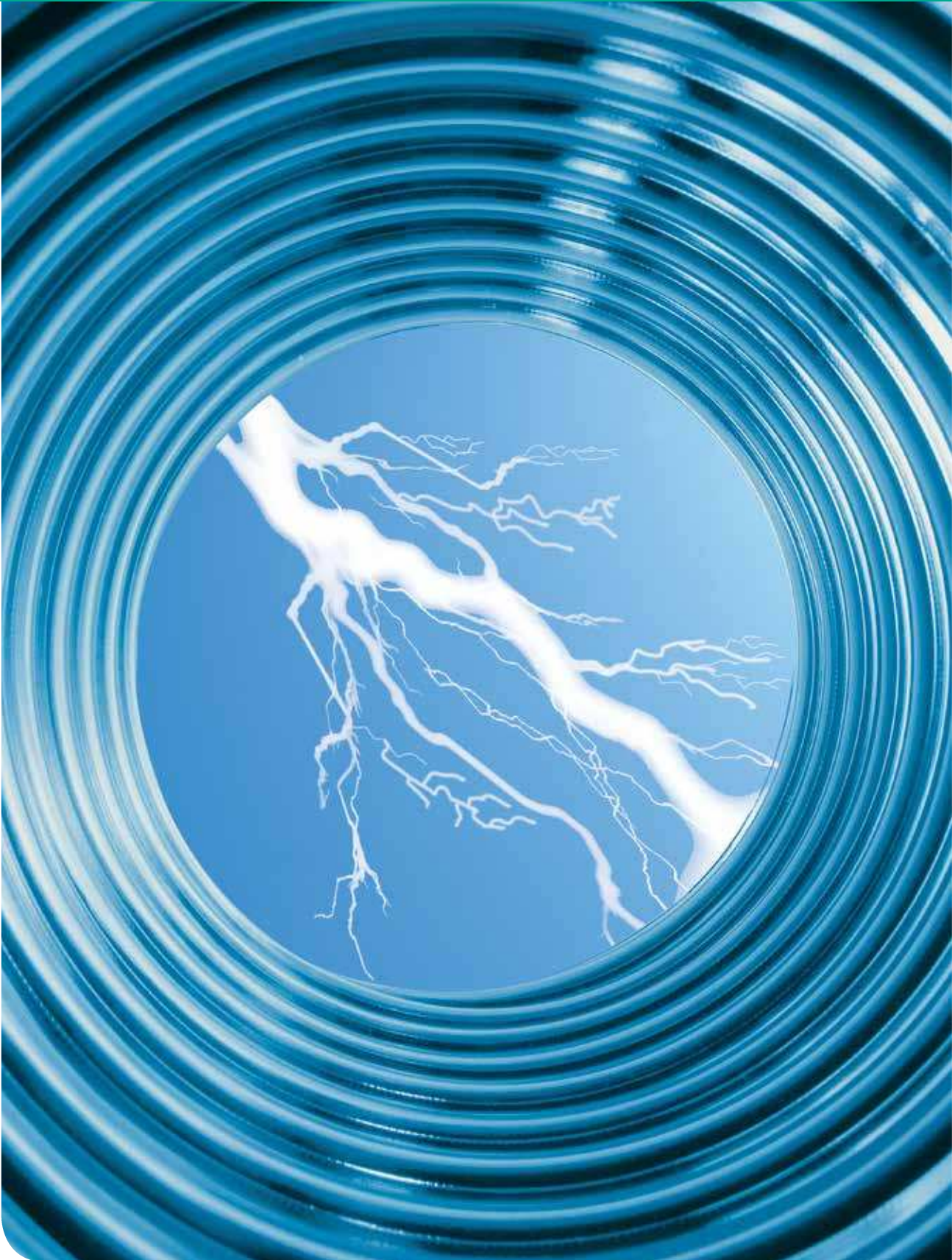
Hose Clamp with Bolts



# 6

## **Antistatic & Electroconductive Hoses**

**For preventing danger of ignition  
through electrostatic charges**



## Master-PUR L

PU Suction & Transport Hose, light duty



**NEW!**  
**Multifunction Hose:**  
**antistatic AND**  
**microbe-resistant**

### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 0.7 mm

### Applications

- Suction/extraction of paper and textile fibres
- Transport of fine-grained particles, such as dust and powder
- Suction & Transport Hose for abrasive solids, liquids and gases
- Protective Hose against mechanical wear
- Oil mist extraction/suction

### Properties

- halogen and plasticizer-free
- extremely flexible
- light
- highly abrasion-resistant
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance  $< 10^9$  Ohm

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR L

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
25	3,22	8000	31	31	0,25	110-025-401	10m/15m
32	2,52	7250	40	40	0,35	110-032-401	10m/15m
38	2,1	6750	46	46	0,39	110-038-401	10m/15m
40	2,1	6750	48	48	0,4	110-040-401	10m/15m
45	1,84	6000	53	53	0,42	110-045-401	10m/15m
50	1,68	5250	58	58	0,45	110-050-401	10m/15m
55	1,54	4500	63	63	0,51	110-055-401	10m/15m
60	1,4	4500	68	68	0,53	110-060-401	10m/15m
65	1,26	3750	73	73	0,64	110-065-401	10m/15m
70	1,12	3750	78	78	0,68	110-070-401	10m/15m
75	1,12	3000	84	84	0,72	110-075-401	10m/15m
80	0,98	3000	88	88	0,76	110-080-401	10m/15m
90	0,84	2250	99	99	0,88	110-090-401	10m/15m
100	0,84	2250	110	110	0,95	110-100-401	10m/15m
110	0,7	2250	119	119	1,03	110-110-401	10m/15m
115	0,7	2250	124	124	1,06	110-115-401	10m/15m
120	0,7	2250	129	129	1,12	110-120-401	10m/15m
125	0,7	2250	135	135	1,18	110-125-401	10m/15m
130	0,56	2250	139	139	1,2	110-130-401	10m/15m
140	0,56	1500	149	149	1,38	110-140-401	10m/15m
150	0,56	1500	161	161	1,48	110-150-401	10m/15m
160	0,56	1500	170	170	1,74	110-160-401	10m/15m
170	0,42	1500	180	180	1,8	110-170-401	10m/15m
175	0,42	1500	185	185	1,85	110-175-401	10m/15m
180	0,42	1500	190	190	1,9	110-180-401	10m/15m
200	0,42	1500	214	214	2,3	110-200-401	10m/15m
225	0,28	750	235	235	2,55	110-225-401	10m/15m
250	0,28	750	260	260	3,02	110-250-401	10m/15m
275	0,28	750	284	284	3,11	110-275-401	10m
280	0,28	750	290	290	3,14	110-280-401	10m
300	0,25	675	310	310	3,2	110-300-401	10m
315	0,25	675	325	325	3,32	110-315-401	10m
325	0,25	675	335	335	3,4	110-325-401	10m
350	0,13	675	360	360	3,6	110-350-401	10m
375	0,13	525	386	386	3,85	110-375-401	/
400	0,13	525	410	411	4,45	110-400-401	10m
450	0,13	525	460	461	5,06	110-450-401	10m
500	0,13	525	510	511	5,7	110-500-401	10m

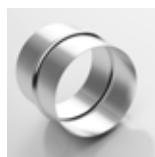
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixable

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist



### Master-PUR L-A se

PU Suction &  
Transport Hose,  
light duty,  
antistatic  $\leq 10^8 \text{ Ohm}$



#### Material

spiral: spring steel wire  
wall: antistatic polyether polyurethane with  
flame retardent additives  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Protective Hose against mechanical wear
- Transport of solids, liquids and gases
- Danger zones, which require antistatic and hardly inflammable hoses

#### Properties

- extremely flexible
- light
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- hardly inflammable
- antistatic, surface resistance  $R_0 \leq 10^8 \text{ Ohm}$
- halogen-free

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR L-A se

DN	working pressure c. bar	low pressure c. mmWC	bending radius c. mm*	outer diameter c. mm	weight c. kg/m	article no.	production lengths
25	3,22	8000	31	31	0,25	110-025-607	10m/15m
32	2,52	7250	40	40	0,35	110-032-607	10m/15m
38	2,1	6750	46	46	0,39	110-038-607	10m/15m
40	2,1	6750	48	48	0,4	110-040-607	10m/15m
45	1,84	6000	53	53	0,42	110-045-607	10m/15m
50	1,68	5250	58	58	0,45	110-050-607	10m/15m
55	1,54	4500	63	63	0,51	110-055-607	10m/15m
60	1,4	4500	68	68	0,53	110-060-607	10m/15m
65	1,26	3750	73	73	0,64	110-065-607	10m/15m
70	1,12	3750	78	78	0,68	110-070-607	10m/15m
75	1,12	3000	84	84	0,72	110-075-607	10m/15m
80	0,98	3000	88	88	0,76	110-080-607	10m/15m
90	0,84	2250	99	99	0,88	110-090-607	10m/15m
100	0,84	2250	110	110	0,95	110-100-607	10m/15m
110	0,7	2250	119	119	1,03	110-110-607	10m/15m
115	0,7	2250	124	124	1,06	110-115-607	10m/15m
120	0,7	2250	129	129	1,12	110-120-607	10m/15m
125	0,7	2250	135	135	1,18	110-125-607	10m/15m
130	0,56	2250	139	139	1,2	110-130-607	10m/15m
140	0,56	1500	149	149	1,38	110-140-607	10m/15m
150	0,56	1500	161	161	1,48	110-150-607	10m/15m
160	0,56	1500	170	170	1,74	110-160-607	10m/15m
170	0,42	1500	180	180	1,8	110-170-607	10m/15m
175	0,42	1500	185	185	1,85	110-175-607	10m/15m
180	0,42	1500	190	190	1,9	110-180-607	10m/15m
200	0,42	1500	214	214	2,3	110-200-607	10m/15m
225	0,28	750	235	235	2,55	110-225-607	10m/15m
250	0,28	750	260	260	3,02	110-250-607	10m/15m
275	0,28	750	284	284	3,11	110-275-607	10m
280	0,28	750	290	290	3,14	110-280-607	10m
300	0,25	675	310	310	3,2	110-300-607	10m
315	0,25	675	325	325	3,32	110-315-607	10m
325	0,25	675	335	335	3,4	110-325-607	10m
350	0,13	675	360	360	3,6	110-350-607	10m
375	0,13	525	386	386	3,85	110-375-607	10m
400	0,13	525	410	411	4,45	110-400-607	10m
450	0,13	525	460	461	5,06	110-450-607	10m
500	0,13	525	510	511	5,7	110-500-607	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.

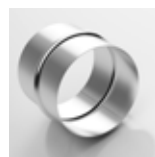
Subject to technical changes and colour deviations.



Master-Grip Hose Clamp, screwable



Master-Grip Quick-Fix Clamp



Hose Connector



PU Cuff, electroconductive



Combiflex PU Threaded Socket



Combiflex PU Swivel Flange, screwable/fixable

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Master-PUR L-EL

PU Suction & Transport Hose, light duty, electroconductive, surface resistance  $\leq 10^4 \text{ Ohm}$



#### Material

spiral: spring steel wire  
wall: electrically conductive polyurethane  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Suction/extraction of paper and textile fibres
- Transport of fine-grained particles, such as dust and powder
- Suction & Transport Hose for abrasive solids, liquids and gases
- Protective Hose against mechanical wear
- Oil mist extraction/suction
- Danger zones, which require electrically conductive hoses

#### Properties

- extremely flexible
- light
- highly abrasion-resistant
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- mostly smooth inner lining
- optimum flow characteristics
- halogen-free
- surface resistance  $\leq 10^4 \text{ Ohm}$
- acc. to TRBS 2153 (Zone 0, 20) for non-flammable liquids/dusts for dissipation of electrostatic charges with grounding on both ends of the helix

#### Temperature Range

- $-40^\circ\text{C}$  to  $+90^\circ\text{C}$
- peaks to  $+125^\circ\text{C}$

DN	working pressure c. bar	low pressure c. mmWC	bending radius c. mm*	outer diameter c. mm	weight c. kg/m	article no.	stock length
25	3,22	8000	31	31	0,25	110-025-207	10m
32	2,52	7250	40	40	0,35	110-032-207	10m/15m
38	2,1	6750	46	46	0,39	110-038-207	10m/15m
40	2,1	6750	48	48	0,4	110-040-207	10m/15m
45	1,84	6000	53	53	0,42	110-045-207	/
50	1,68	5250	58	58	0,45	110-050-207	10m/15m
55	1,54	4500	63	63	0,51	110-055-207	/
60	1,4	4500	68	68	0,53	110-060-207	10m/15m
65	1,26	3750	73	73	0,64	110-065-207	10m/15m
70	1,12	3750	78	78	0,68	110-070-207	10m/15m
75	1,12	3000	84	84	0,72	110-075-207	10m/15m
80	0,98	3000	88	88	0,76	110-080-207	10m/15m
90	0,84	2250	99	99	0,88	110-090-207	/
100	0,84	2250	110	110	0,95	110-100-207	10m/15m
110	0,7	2250	119	119	1,03	110-110-207	10m
115	0,7	2250	124	124	1,06	110-115-207	/
120	0,7	2250	129	129	1,12	110-120-207	10m
125	0,7	2250	135	135	1,18	110-125-207	10m
130	0,56	2250	139	139	1,2	110-130-207	/
140	0,56	1500	149	149	1,38	110-140-207	/
150	0,56	1500	161	161	1,48	110-150-207	10m
160	0,56	1500	170	170	1,74	110-160-207	/
170	0,42	1500	180	180	1,8	110-170-207	/
175	0,42	1500	185	185	1,85	110-175-207	/
180	0,42	1500	190	190	1,9	110-180-207	10m
200	0,42	1500	214	214	2,3	110-200-207	10m
225	0,28	750	235	235	2,55	110-225-207	/
250	0,28	750	260	260	3,02	110-250-207	/
275	0,28	750	284	284	3,11	110-275-207	/
280	0,28	750	290	290	3,14	110-280-207	/
300	0,25	675	310	310	3,2	110-300-207	10m
315	0,25	675	325	325	3,32	110-315-207	/
325	0,25	675	335	335	3,4	110-325-207	/
350	0,13	675	360	360	3,6	110-350-207	/
375	0,13	525	386	386	3,85	110-375-207	/
400	0,13	525	410	411	4,45	110-400-207	/
450	0,13	525	460	461	5,06	110-450-207	/
500	0,13	525	510	511	5,7	110-500-207	/

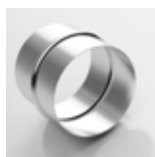
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths and sizes with print.  
 Subject to technical changes and colour deviations.



Master-Grip Hose Clamp, screwable



Master-Grip Quick-Fix Clamp



Hose Connector



PU Cuff, electroconductive



Combiflex PU Threaded Socket



Combiflex PU Swivel Flange, screwable/fixable

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Master-PUR L-MHR A

PU Suction & Transport Hose, lightweight, microbe & hydrolysis-resistant, antistatic, surface resistance <math>10^9</math> Ohm



#### Material

spiral: spring steel wire  
wall: pure polyether polyurethane with non-migratory permanent antistatic agent  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Suction/extraction of paper and textile fibres
- Transport of fine-grained particles, such as dust and powder
- Protective Hose against mechanical wear
- Oil mist extraction/suction
- Suction & Transport Hose for abrasive solids, for which microbe and hydrolysis resistance is required

#### Properties

- halogen and plasticizer-free
- extremely flexible
- light
- highly abrasion-resistant
- smallest bending radii
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- surface resistance <math>10^9</math> Ohm

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR L-MHR A

DN	working pressure c. bar	low pressure c. mmWC	bending radius c. mm*	outer diameter c. mm	weight c. kg/m	article no.	production lengths
25	3,22	8000	31	31	0,25	110-025-798	10m/15m
32	2,52	7250	40	40	0,35	110-032-798	10m/15m
38	2,1	6750	46	46	0,39	110-038-798	10m/15m
40	2,1	6750	48	48	0,4	110-040-798	10m/15m
45	1,84	6000	53	53	0,42	110-045-798	10m/15m
50	1,68	5250	58	58	0,45	110-050-798	10m/15m
55	1,54	4500	63	63	0,51	110-055-798	10m/15m
60	1,4	4500	68	68	0,53	110-060-798	10m/15m
65	1,26	3750	73	73	0,64	110-065-798	10m/15m
70	1,12	3750	78	78	0,68	110-070-798	10m/15m
75	1,12	3000	84	84	0,72	110-075-798	10m/15m
80	0,98	3000	88	88	0,76	110-080-798	10m/15m
90	0,84	2250	99	99	0,88	110-090-798	10m/15m
100	0,84	2250	110	110	0,95	110-100-798	10m/15m
110	0,7	2250	119	119	1,03	110-110-798	10m/15m
115	0,7	2250	124	124	1,06	110-115-798	10m/15m
120	0,7	2250	129	129	1,12	110-120-798	10m/15m
125	0,7	2250	135	135	1,18	110-125-798	10m/15m
130	0,56	2250	139	139	1,2	110-130-798	10m/15m
140	0,56	1500	149	149	1,38	110-140-798	10m/15m
150	0,56	1500	161	161	1,48	110-150-798	10m/15m
160	0,56	1500	170	170	1,74	110-160-798	10m/15m
170	0,42	1500	180	180	1,8	110-170-798	10m/15m
175	0,42	1500	185	185	1,85	110-175-798	10m/15m
180	0,42	1500	190	190	1,9	110-180-798	10m/15m
200	0,42	1500	214	214	2,3	110-200-798	10m/15m
225	0,28	750	235	235	2,55	110-225-798	10m/15m
250	0,28	750	260	260	3,02	110-250-798	10m/15m
275	0,28	750	284	284	3,11	110-275-798	10m
280	0,28	750	290	290	3,14	110-280-798	10m
300	0,25	675	310	310	3,2	110-300-798	10m
315	0,25	675	325	325	3,32	110-315-798	10m
325	0,25	675	335	335	3,4	110-325-798	10m
350	0,13	675	360	360	3,6	110-350-798	10m
375	0,13	525	386	386	3,85	110-375-798	10m
400	0,13	525	410	411	4,45	110-400-798	10m
450	0,13	525	460	461	5,06	110-450-798	10m
500	0,13	525	510	511	5,7	110-500-798	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.

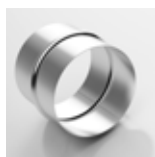
Subject to technical changes and colour deviations.



Master-Grip Hose Clamp, screwable



Master-Grip Quick-Fix Clamp



Hose Connector



PU Cuff, electroconductive



Combiflex PU Threaded Socket



Combiflex PU Swivel Flange, screwable/fixable

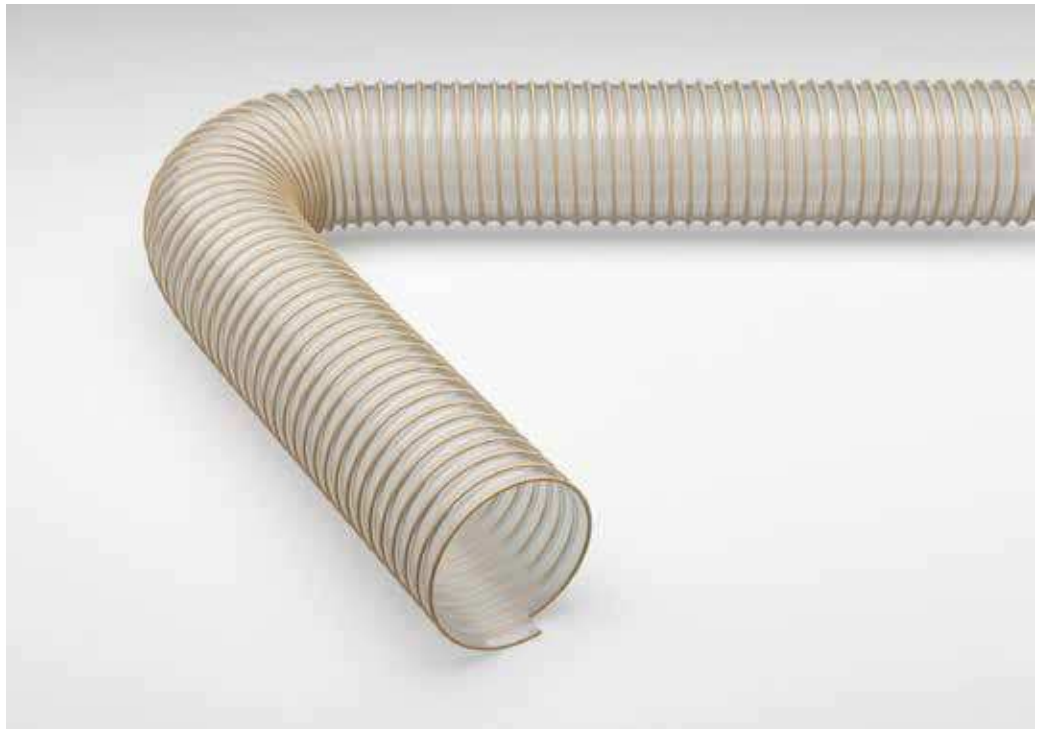
Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

## Master-PUR H

PU Suction & Transport Hose, medium duty

**NEW!**  
**Multifunction Hose:**  
**antistatic AND**  
**microbe-resistant**



### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 1.4 mm

### Applications

- Suction of coarse-grained media with high flow rate
- for abrasive solids, gaseous and liquid media
- Standard hose for industrial vacuum cleaners
- Granulate transport hose
- Transport of chips/shavings
- Suction and transport of paper fibres
- Oil mist extraction/suction

### Properties

- highly abrasion-resistant
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- extremely flexible, lightweight
- small bending radii
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance  $< 10^9$  Ohm

### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
13	4,7	9400	38	19	0,15	111-013-401	10m/15m
16	4,5	9400	40	22	0,2	111-016-401	10m/15m
20	4,3	9400	43	26	0,22	111-020-401	10m/15m
25	4,16	9400	47	33	0,29	111-025-401	10m/15m
32	3,25	9400	60	41	0,39	111-032-401	10m/15m
38	3,12	8400	69	47	0,46	111-038-401	10m/15m
40	3	8350	72	49	0,49	111-040-401	10m/15m
45	2,95	8250	80	55	0,55	111-045-401	10m/15m
50	2,9	8000	87	61	0,71	111-050-401	10m/15m
55	2,75	7750	95	65	0,77	111-055-401	10m/15m
60	2,55	7500	102	70	0,84	111-060-401	10m/15m
65	2,4	6750	112	75	0,91	111-065-401	10m/15m
70	2,25	6750	117	80	0,97	111-070-401	10m/15m
75	2	6000	126	87	1,06	111-075-401	10m/15m
80	2	6000	132	91	1,11	111-080-401	10m/15m
90	1,65	5250	149	101	1,25	111-090-401	10m/15m
100	1,5	4500	165	112	1,48	111-100-401	10m/15m
110	1,35	4500	179	121	1,61	111-110-401	10m/15m
115	1,35	3125	186	126	1,68	111-115-401	10m/15m
120	1,3	3125	194	131	1,75	111-120-401	10m/15m
125	1,3	3125	203	138	1,91	111-125-401	10m/15m
130	1,3	3125	209	141	1,96	111-130-401	10m/15m
140	1,05	2500	224	151	2,11	111-140-401	10m/15m
150	1,05	2500	242	163	2,29	111-150-401	10m/15m
160	0,9	2500	255	171	2,51	111-160-401	10m/15m
170	0,9	1875	270	181	2,67	111-170-401	10m/15m
175	0,9	1875	278	186	2,74	111-175-401	10m/15m
180	0,75	1875	285	191	2,82	111-180-401	10m/15m
200	0,75	1875	321	215	3,3	111-200-401	10m/15m
225	0,6	1250	353	237	3,65	111-225-401	10m/15m
250	0,6	1250	390	263	3,84	111-250-401	10m/15m
275	0,45	1250	426	288	4,22	111-275-401	10m
280	0,45	1250	435	293	4,3	111-280-401	10m
300	0,45	1250	465	313	4,94	111-300-401	10m
315	0,45	1250	488	328	5,19	111-315-401	/
325	0,45	1250	503	338	5,35	111-325-401	10m
350	0,45	1250	540	363	6,96	111-350-401	10m
375	0,3	675	580	388	7,45	111-375-401	/
400	0,3	675	615	413	7,95	111-400-401	10m
450	0,3	675	690	463	8,94	111-450-401	10m
500	0,3	675	765	513	9,93	111-500-401	10m

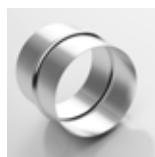
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



PU Cuff,  
electroconductive



Combiflex PU  
Threaded Socket



Combiflex PU  
Swivel Flange,  
screwable/fixable

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist



### Master-PUR H-A se

PU Suction & Transport Hose, medium duty, antistatic, surface resistance  $\leq 10^8$  Ohm



#### Material

spiral: spring steel wire  
wall: antistatic polyether polyurethane with flame retardent additives  
wall thickness between spirals approx. 1.4 mm

#### Applications

- Protective Hose against mechanical wear
- Transport of solids, liquids and gases
- Danger zones, which require antistatic and hardly inflammable hoses

#### Properties

- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- small bending radii
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRBS 2153 (Zone 1, 21) for non-flammable dust/bulk solids and gases/liquids with low conductivity of electrostatic charges when earthed at both ends of the spiral
- hardly inflammable
- extremely flexible
- lightweight
- antistatic, surface resistance  $R_0 \leq 10^8$  Ohm
- halogen-free
- LOBA Licence

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR H-A se

DN	working pressure c. bar	low pressure c. mmWC	bending radius c. mm*	outer diameter c. mm	weight c. kg/m	article no.	production lengths
16	4,5	9400	40	22	0,2	111-016-607	10m/15m
20	4,3	9400	43	26	0,22	111-020-607	10m/15m
25	4,16	9400	47	33	0,29	111-025-607	10m/15m
32	3,25	9400	60	41	0,39	111-032-607	10m/15m
38	3,12	8400	69	47	0,46	111-038-607	10m/15m
40	3	8350	72	49	0,49	111-040-607	10m/15m
45	2,95	8250	80	55	0,55	111-045-607	10m/15m
50	2,9	8000	87	61	0,71	111-050-607	10m/15m
55	2,75	7750	95	65	0,77	111-055-607	10m/15m
60	2,55	7500	102	70	0,84	111-060-607	10m/15m
65	2,4	6750	112	75	0,91	111-065-607	10m/15m
70	2,25	6750	117	80	0,97	111-070-607	10m/15m
75	2	6000	126	87	1,06	111-075-607	10m/15m
80	2	6000	132	91	1,11	111-080-607	10m/15m
85	1,8	5250	141	96	1,18	111-085-607	10m/15m
90	1,65	5250	149	101	1,25	111-090-607	10m/15m
100	1,5	4500	165	112	1,48	111-100-607	10m/15m
110	1,35	4500	179	121	1,61	111-110-607	10m/15m
115	1,35	3125	186	126	1,68	111-115-607	10m/15m
120	1,3	3125	194	131	1,75	111-120-607	10m/15m
125	1,3	3125	203	138	1,91	111-125-607	10m/15m
130	1,3	3125	209	141	1,96	111-130-607	10m/15m
140	1,05	2500	224	151	2,11	111-140-607	10m/15m
150	1,05	2500	242	163	2,29	111-150-607	10m/15m
160	0,9	2500	255	171	2,51	111-160-607	10m/15m
170	0,9	1875	270	181	2,67	111-170-607	10m/15m
175	0,9	1875	278	186	2,74	111-175-607	10m/15m
180	0,75	1875	285	191	2,82	111-180-607	10m/15m
200	0,75	1875	321	215	3,3	111-200-607	10m/15m
225	0,6	1250	353	237	3,65	111-225-607	10m/15m
250	0,6	1250	390	263	3,84	111-250-607	10m/15m
275	0,45	1250	426	288	4,22	111-275-607	10m
280	0,45	1250	435	293	4,3	111-280-607	10m
300	0,45	1250	465	313	4,94	111-300-607	10m
315	0,45	1250	488	328	5,19	111-315-607	10m
325	0,45	1250	503	338	5,35	111-325-607	10m
350	0,45	1250	540	363	6,96	111-350-607	10m
375	0,3	675	580	388	7,45	111-375-607	10m
400	0,3	675	615	413	7,95	111-400-607	10m
450	0,3	675	690	463	8,94	111-450-607	10m
500	0,3	675	765	513	9,93	111-500-607	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

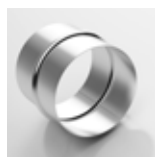
Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print. Subject to technical changes and colour deviations.



Master-Grip Hose Clamp, screwable



Master-Grip Quick-Fix Clamp



Hose Connector



PU Cuff, electroconductive



Combiflex PU Threaded Socket



Combiflex PU Swivel Flange, screwable/fixable

Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Master-PUR H-EL

PU Suction & Transport Hose, medium duty, electroconductive, surface resistance  $\leq 10^4$  Ohm



#### Material

spiral: spring steel wire  
wall: electrically conductive polyurethane  
wall thickness between spirals approx. 1.4 mm

#### Applications

- Suction & Transport Hose for abrasive solids, liquids and gases
- Protective Hose against mechanical wear
- Suction of coarse-grained media with high flow rate
- Oil mist extraction/suction
- Danger zones, which require electrically conductive hoses
- Special hose for industrial vacuum cleaners in explosion-protected areas

#### Properties

- highly abrasion-resistant
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- small bending radii
- increased pressure and vacuum resistance
- mostly smooth inner lining
- optimum flow characteristics
- extremely flexible
- lightweight
- halogen-free
- surface resistance  $\leq 10^4$  Ohm
- acc. to TRBS 2153 (Zone 0, 20) for non-flammable liquids/dusts for dissipation of electrostatic charges with grounding on both ends of the helix

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR H-EL

DN	working pressure c.bar	low pressure c. mmWC	bending radius c. mm*	outer diameter c. mm	weight c. kg/m	article no.	stock length
25	4,16	9400	47	33	0,29	111-025-207	10m/15m
32	3,25	9400	60	41	0,39	111-032-207	10m/15m
38	3,12	8400	69	47	0,46	111-038-207	10m/15m
40	3	8350	72	49	0,49	111-040-207	10m/15m
45	2,95	8250	80	55	0,55	111-045-207	/
50	2,9	8000	87	61	0,71	111-050-207	10m/15m
55	2,75	7750	95	65	0,77	111-055-207	/
60	2,55	7500	102	70	0,84	111-060-207	10m/15m
65	2,4	6750	112	75	0,91	111-065-207	10m/15m
70	2,25	6750	117	80	0,97	111-070-207	10m/15m
75	2	6000	126	87	1,06	111-075-207	10m/15m
80	2	6000	132	91	1,11	111-080-207	10m/15m
90	1,65	5250	149	101	1,25	111-090-207	10m/15m
100	1,5	4500	165	112	1,48	111-100-207	10m/15m
110	1,35	4500	179	121	1,61	111-110-207	/
115	1,35	3125	186	126	1,68	111-115-207	/
120	1,3	3125	194	131	1,75	111-120-207	/
125	1,3	3125	203	138	1,91	111-125-207	10m
130	1,3	3125	209	141	1,96	111-130-207	/
140	1,05	2500	224	151	2,11	111-140-207	/
150	1,05	2500	242	163	2,29	111-150-207	10m
160	0,9	2500	255	171	2,51	111-160-207	10m
170	0,9	1875	270	181	2,67	111-170-207	/
175	0,9	1875	278	186	2,74	111-175-207	/
180	0,75	1875	285	191	2,82	111-180-207	/
200	0,75	1875	321	215	3,3	111-200-207	10m
225	0,6	1250	353	237	3,65	111-225-207	/
250	0,6	1250	390	263	3,84	111-250-207	10m
275	0,45	1250	426	288	4,22	111-275-207	/
280	0,45	1250	435	293	4,3	111-280-207	/
300	0,45	1250	465	313	4,94	111-300-207	10m
315	0,45	1250	488	328	5,19	111-315-207	/
325	0,45	1250	503	338	5,35	111-325-207	/
350	0,45	1250	540	363	6,96	111-350-207	/
375	0,3	675	580	388	7,45	111-375-207	/
400	0,3	675	615	413	7,95	111-400-207	/
450	0,3	675	690	463	8,94	111-450-207	/
500	0,3	675	765	513	9,93	111-500-207	/

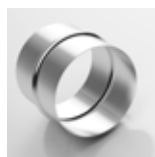
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths and sizes with print.  
 Subject to technical changes and colour deviations.



Master-Grip Hose Clamp, screwable



Master-Grip Quick-Fix Clamp



Hose Connector



PU Cuff, electroconductive



Combiflex PU Threaded Socket



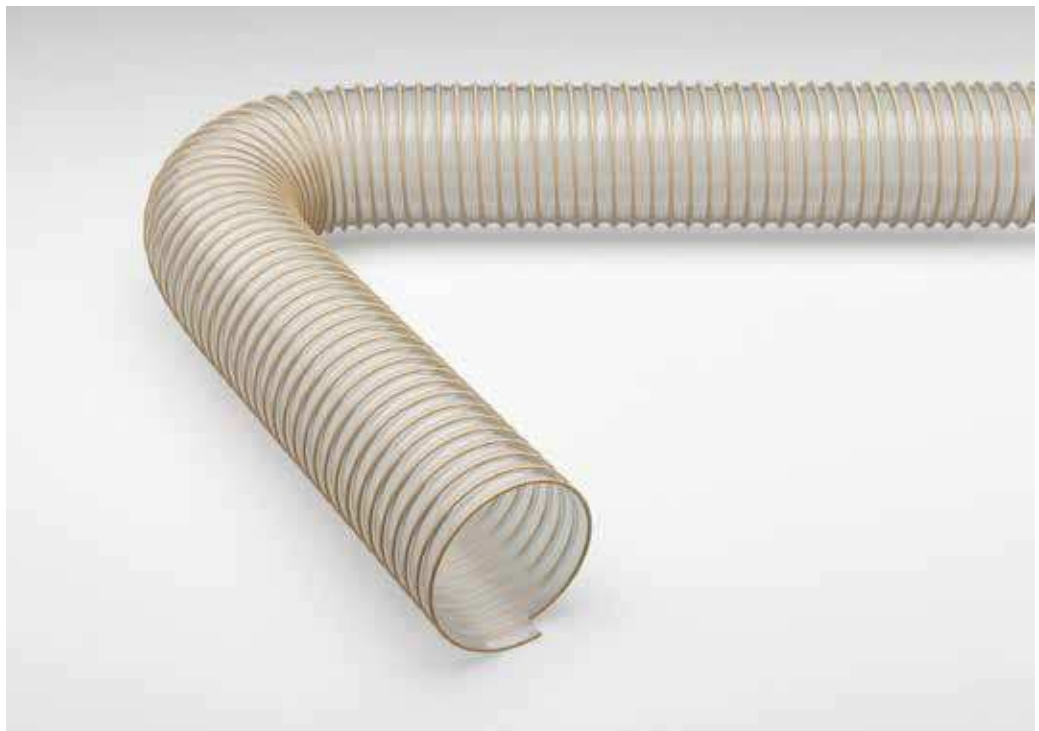
Combiflex PU Swivel Flange, screwable/fixable

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Master-PUR H-MHR A

PU Suction & Transport Hose, medium duty, microbe & hydrolysis-resistant, antistatic, surface resistance <math> < 10^9 \text{ Ohm}</math>



#### Material

spiral: spring steel wire  
hose wall: polyether polyurethane with non-migrating permanent agents, microbe and hydrolysis-resistant  
wall thickness between spirals approx. 1.4 mm

#### Applications

- Protective Hose against mechanical wear
- Suction & Transport Hose for abrasive solids, for which microbe and hydrolysis resistance is required

#### Properties

- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- extremely flexible, lightweight
- small bending radii
- increased pressure and vacuum resistance
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- RoHS conformal
- microbe and hydrolysis-resistant
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- antistatic, surface resistance <math> < 10^9 \text{ Ohm}</math>

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR H-MHR A

DN	working pressure c. bar	low pressure c. mmWC	bending radius c. mm*	outer diameter c. mm	weight c. kg/m	article no.	production lengths
16	4,5	9400	40	22	0,2	111-016-798	10m/15m
20	4,3	9400	43	26	0,22	111-020-798	10m/15m
25	4,16	9400	47	33	0,29	111-025-798	10m/15m
32	3,25	9400	60	41	0,39	111-032-798	10m/15m
38	3,12	8400	69	47	0,46	111-038-798	10m/15m
40	3	8350	72	49	0,49	111-040-798	10m/15m
45	2,95	8250	80	55	0,55	111-045-798	10m/15m
50	2,9	8000	87	61	0,71	111-050-798	10m/15m
55	2,75	7750	95	65	0,77	111-055-798	10m/15m
60	2,55	7500	102	70	0,84	111-060-798	10m/15m
65	2,4	6750	112	75	0,91	111-065-798	10m/15m
70	2,25	6750	117	80	0,97	111-070-798	10m/15m
75	2	6000	126	87	1,06	111-075-798	10m/15m
80	2	6000	132	91	1,11	111-080-798	10m/15m
90	1,65	5250	149	101	1,25	111-090-798	10m/15m
100	1,5	4500	165	112	1,48	111-100-798	10m/15m
110	1,35	4500	179	121	1,61	111-110-798	10m/15m
115	1,35	3125	186	126	1,68	111-115-798	10m/15m
120	1,3	3125	194	131	1,75	111-120-798	10m/15m
125	1,3	3125	203	138	1,91	111-125-798	10m/15m
130	1,3	3125	209	141	1,96	111-130-798	10m/15m
140	1,05	2500	224	151	2,11	111-140-798	10m/15m
150	1,05	2500	242	163	2,29	111-150-798	10m/15m
160	0,9	2500	255	171	2,51	111-160-798	10m/15m
170	0,9	1875	270	181	2,67	111-170-798	10m/15m
175	0,9	1875	278	186	2,74	111-175-798	10m/15m
180	0,75	1875	285	191	2,82	111-180-798	10m/15m
200	0,75	1875	321	215	3,3	111-200-798	10m/15m
225	0,6	1250	353	237	3,65	111-225-798	10m/15m
250	0,6	1250	390	263	3,84	111-250-798	10m/15m
275	0,45	1250	426	288	4,22	111-275-798	10m
280	0,45	1250	435	293	4,3	111-280-798	10m
300	0,45	1250	465	313	4,94	111-300-798	10m
315	0,45	1250	488	328	5,19	111-315-798	10m
325	0,45	1250	503	338	5,35	111-325-798	10m
350	0,45	1250	540	363	6,96	111-350-798	10m
375	0,3	675	580	388	7,45	111-375-798	10m
400	0,3	675	615	413	7,95	111-400-798	10m
450	0,3	675	690	463	8,94	111-450-798	10m
500	0,3	675	765	513	9,93	111-500-798	10m

All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Available on request in the above listed lengths, sizes and colours. Alternatively, also available with print.

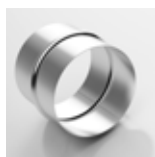
Subject to technical changes and colour deviations.



Master-Grip Hose Clamp, screwable



Master-Grip Quick-Fix Clamp



Hose Connector



PU Cuff, electroconductive



Combiflex PU Threaded Socket



Combiflex PU Swivel Flange, screwable/fix

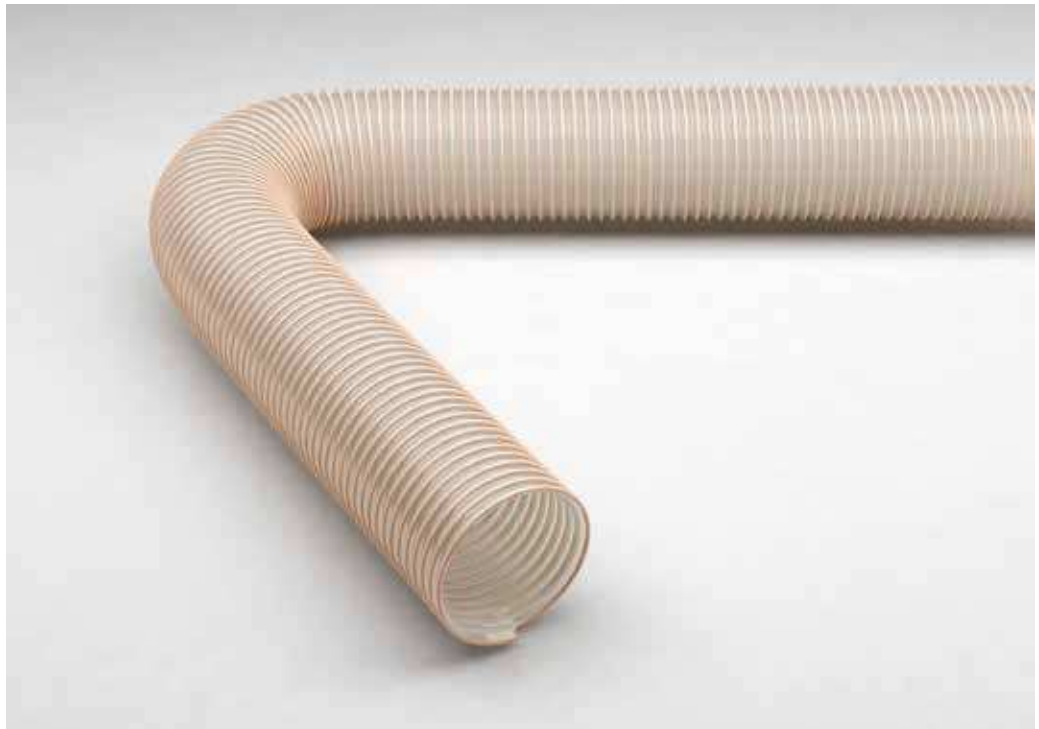
Construction Design - see Technical Appendix  
Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
Prices - see Pricelist

### Master-PUR HÜ

PU Suction & Transport Hose, medium duty / reinforced

**NEW!**  
**Multifunction Hose:**  
**antistatic AND**  
**microbe-resistant**



#### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 1.7 - 2.1 mm depending on DN

#### Applications

- Protective Hose against mechanical wear
- Special hose for dry suction vehicles
- Light, flexible head hose

#### Properties

- highly abrasion-resistant
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- free of halogens and plasticizers
- gas-tight
- small bending radii
- high tensile strength
- mostly smooth inner lining
- optimum flow characteristics
- reinforced version of standard Master-PUR H
- extremely flexible
- lightweight
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance <math>< 10^9 \text{ Ohm}</math>

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	stock length
100	1,77	6300	187	111	1,72	112-100-101	/
125	1,54	4375	230	137	2,18	112-125-101	10m
150	1,26	3625	275	162	2,38	112-155-101	/

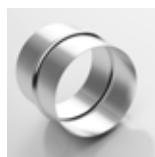
All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Also available in reinforced version with 2.1mm wall thickness.  
 Subject to technical changes and colour deviations.



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



Hose Clamp with Bolts



Combiflex PU Cone  
Flange



Combiflex PU  
Swivel Flange,  
screwable/fixe

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist



### Master-PUR HX

PU Transport & Suction Hose, highly abrasion-resistant & vacuum-proof, with reinforcement underneath the spiral

**NEW!**  
Multifunction Hose:  
antistatic AND  
microbe-resistant



#### Material

spiral: spring steel wire  
wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)  
wall thickness between spirals approx. 1.7 - 2.1 mm, depending on DN

#### Applications

- For increased requirements of abrasion resistance and durability
- Suction & Transport Hose for extremely abrasive media
- Flat roof gravelling
- Working Hose for silo vehicles and cargo depots
- Transport Hose for problematic media, e.g. sand, gravel, grain, granulates

#### Properties

- halogen and plasticizer-free
- extremely abrasion-resistant via specific reinforcements underneath the spiral
- high vacuum and apex pressure resistance
- good flexibility
- smooth inner lining, optimum flow characteristics
- highly durable, long service lives
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- acc. to TRBS 2153 (Zone 20) for non-flammable dust/bulk solids for conducting electrostatic charges when earthed at both ends of the spiral
- microbe-resistant
- antistatic, surface resistance <math>< 10^9 \text{ Ohm}</math>

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no	stock length
32	4,85	9600	80	42	0,66	114-032-101	10m/15m
38	4,39	9600	95	48	0,78	114-038-101	10m/15m
40	4,27	9600	100	50	0,83	114-040-101	10m/15m
45	4,1	9600	115	55	0,92	114-045-101	10m/15m
50	4	9600	125	61	1,04	114-050-101	10m/15m
55	3,75	9100	140	65	1,1	114-055-101	10m/15m
60	3,6	9100	150	70	1,2	114-060-101	10m/15m
65	3,3	9100	165	75	1,29	114-065-101	10m/15m
70	3,15	9100	175	80	1,38	114-070-101	10m/15m
75	2,92	9100	190	87	1,5	114-075-101	10m/15m
80	2,77	9100	200	93	1,93	114-080-101	10m/15m
90	2,4	9100	225	103	2,16	114-090-101	10m/15m
100	2,1	8900	250	115	2,6	114-100-101	10m/15m
110	1,95	8900	275	124	2,82	114-110-101	10m/15m
115	1,8	8900	290	129	2,94	114-115-101	10m/15m
120	1,65	8900	300	134	3,07	114-120-101	10m/15m
125	1,65	8900	315	140	3,44	114-125-101	10m/15m
130	1,65	8550	325	143	3,54	114-130-101	10m/15m
140	1,5	8460	350	153	3,81	114-140-101	10m/15m
150	1,5	8370	450	167	4,13	114-150-101	10m/15m
160	1,35	8280	500	175	4,81	114-160-101	10m/15m
170	1,2	8190	600	185	5,1	114-170-101	10m/15m
175	1,2	8100	650	190	5,25	114-175-101	10m/15m
180	1,2	7830	700	195	5,4	114-180-101	10m/15m
200	1,05	6750	950	220	6,43	114-200-101	10m/15m
225	0,9	5940	1150	241	7,11	114-225-101	10m
250	0,9	5220	1300	267	7,91	114-250-101	10m
275	0,75	4770	1450	292	8,68	114-275-101	10m
300	0,6	4320	1600	317	9,45	114-300-101	10m

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths, sizes and colours, with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with Bolts

Combiflex PU Cone  
FlangeCombiflex PU Fixed  
FlangeCombiflex PU  
Threaded SocketCombiflex PU Swivel  
Flange, screwable/  
fixed

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Master-PUR HX-EL

PU Suction & Transport Hose, highly abrasion-resistant & vacuum-proof, electroconductive, surface resistance  $\leq 10^4$  Ohm



#### Material

spiral: spring steel wire  
wall: electrically conductive polyurethane  
wall thickness between spirals approx.  
1.7 - 2.1 mm, depending on DN

#### Applications

- Danger zones, which require electrically conductive hoses
- Suction of coarse-grained media with highest flow rate
- Suction and transport hose for extremely abrasive solid, liquid and gaseous media
- Protective hose against greater mechanical wear

#### Properties

- extremely abrasion-resistant via specific reinforcements underneath the spiral
- high vacuum and apex pressure resistance
- good flexibility
- smooth inner lining, optimum flow characteristics
- highly durable, long service lives
- good chemical resistance
- generally good UV and ozone resistance
- oil/petroleum-proof
- gas-tight
- high tensile strength
- surface resistance  $\leq 10^4$  Ohm
- acc. to TRBS 2153 (Zone 0, 20) for non-flammable liquids/dusts for dissipation of electrostatic charges with grounding on both ends of the helix

#### Temperature Range

- -40°C to +90°C
- peaks to +125°C

## Master-PUR HX-EL

DN	working pressure c. bar	low pressure c. mmWC	bending radius c. mm*	outer diameter c. mm	weight c. kg/m	article no.	stock length
32	4,85	9600	80	42	0,69	114-032-207	/
38	4,39	9600	95	48	0,78	114-038-207	/
40	4,27	9600	100	50	0,81	114-040-207	/
45	4,1	9600	115	55	0,88	114-045-207	/
50	4	9600	125	61	0,95	114-050-207	10m
55	3,75	9100	140	65	1,08	114-055-207	/
60	3,6	9100	150	70	1,2	114-060-207	/
65	3,3	9100	165	75	1,33	114-065-207	/
70	3,15	9100	175	80	1,49	114-070-207	/
75	2,92	9100	190	87	1,68	114-075-207	/
80	2,77	9100	200	93	1,85	114-080-207	/
90	2,4	9100	225	103	2,1	114-090-207	/
100	2,1	8900	250	115	2,32	114-100-207	10m
110	1,95	8900	275	124	2,6	114-110-207	/
115	1,8	8900	290	129	2,73	114-115-207	/
120	1,65	8900	300	134	2,86	114-120-207	/
125	1,65	8900	315	140	3,01	114-125-207	10m
130	1,65	8550	325	143	3,25	114-130-207	/
140	1,5	8460	350	153	3,66	114-140-207	/
150	1,5	8370	375	167	4,15	114-150-207	/
160	1,35	8280	400	175	4,55	114-160-207	/
170	1,2	8190	425	185	5,01	114-170-207	/
175	1,2	8100	440	190	5,27	114-175-207	/
180	1,2	7830	450	195	5,52	114-180-207	/
200	1,05	6750	500	220	6,06	114-200-207	/
225	0,9	5940	565	241	6,99	114-225-207	/
250	0,9	5220	625	267	7,91	114-250-207	/
275	0,75	4770	690	292	8,67	114-275-207	/
300	0,6	4320	750	317	9,42	114-300-207	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths and sizes with print.  
 Subject to technical changes and colour deviations.



Hose Clamp with Bolts



Combiflex PU Fixed Flange



Combiflex metal male threaded socket



Combiflex PU Swivel Flange, screwable/pre-fixed



Combiflex PU Cone Flange, screwable/pre-fixed

Construction Design - see Technical Appendix  
 Installation & Connections - see Chapter 16

Chemical Resistance - see Technical Appendix  
 Prices - see Pricelist

### Master-PE L-F EL

PE Suction & Transport hose, light duty, highly flexible, electroconductive, surface resistance  $\leq 10^4$  Ohm



#### Material

spiral: spring steel wire  
wall: electroconductive polyethylene  
Film thickness between spirals approx. 0.5mm

#### Applications

- Suction of chemical fumes and gases in ventilation and air conditioning

#### Properties

- halogen and plasticizer-free
- smallest bending radii
- highly flexible
- surface resistance  $\leq 10^4$  Ohm
- very good chemical resistance
- very light
- application possible acc. to EU directive 94/9/EU (ATEX 95)
- especially to solvent and other aggressive fumes
- acc. to TRBS 2153 (Zone 0, 20) for non-flammable liquids/dusts for dissipation of electrostatic charges with grounding on both ends of the helix

#### Temperature Range

- -40°C to +60°C
- peaks to +80°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	weight c. kg/m	article no.	production lengths	
50	0,4	1650	35	0,14	380-050-207	10m/15m	
60	0,4	1650	42	0,17	380-060-207	10m/15m	
70	0,3	1200	49	0,2	380-070-207	10m/15m	
75	0,3	1000	53	0,21	380-075-207	10m/15m	
80	0,3	1000	56	0,22	380-080-207	10m/15m	
90	0,25	900	63	0,25	380-090-207	10m/15m	
100	0,2	900	70	0,28	380-100-207	10m/15m	
125	0,2	800	85	0,35	380-125-207	10m/15m	
150	0,1	600	100	0,43	380-150-207	10m/15m	
160	0,1	550	115	0,55	380-160-207	10m/15m	
175	0,09	500	123	0,71	380-175-207	10m/15m	
200	0,08	500	140	0,81	380-200-207	10m/15m	
250	0,05	400	175	1,01	380-250-207	10m/15m	
300	0,03	300	210	1,22	380-300-207	10m/15m	
350	0,02	200	245	1,42	380-350-207	10m/15m	
400	0,02	200	280	1,62	380-400-207	10m/15m	
450	0,01	100	315	1,83	380-450-207	10m/15m	
500	0,01	100	350	2,03	380-500-207	10m/15m	
600	0,01	100	400	3,48	380-600-207	10m/15m	

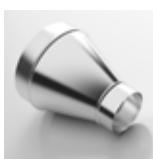
All data refers to a media and ambient temperature of +20 °C

\* refers to the inside of the hose

Order-specific production in above listed sizes, lengths, in black. Delivery time approx. 10 working days

Available on request in other lengths and sizes with print.

Subject to technical changes and colour deviations.



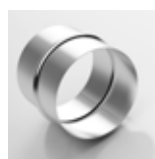
Hose Reducer,  
symmetrical



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector

### Master-PE L-EL

PE Suction & Transport Hose, light duty, electroconductive, surface resistance  $\leq 10^4$  Ohm



#### Material

spiral: spring steel wire  
wall: electroconductive polyethylene  
wall thickness between spirals approx. 0.7 mm

#### Applications

- Transport of fine-grained particles, such as dust and powder
- Suction & Transport Hose for aggressive gases and liquids
- Oil mist extraction/suction
- Danger zones, which require electrically conductive hoses

#### Properties

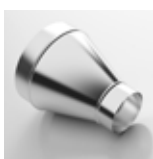
- halogen and plasticizer-free
- light
- generally good UV and ozone resistance
- oil/petroleum-proof
- mostly smooth inner lining
- optimum flow characteristics
- flexible
- high tension/tear-proof
- surface resistance  $\leq 10^4$  Ohm
- very good chemical resistance
- application possible acc. to EU directive 94/9/EU (ATEX 95)
- acc. to TRBS 2153 (Zone 0, 20) for non-flammable liquids/dusts for dissipation of electrostatic charges with grounding on both ends of the helix

#### Temperature Range

- -35°C to +80°C
- peaks to +120°C

DN	op. pressure c. bar	vacuum c. mmWC	bend radius c. mm*	outer Ø c. mm	weight c. kg/m	article no.	pro- duction lengths
25	1,39	9600	31	31	0,23	180-025-207	/
32	1,09	8700	40	40	0,32	180-032-207	10m
38	0,91	8100	46	46	0,35	180-038-207	/
40	0,91	8100	48	48	0,36	180-040-207	/
45	0,79	7200	53	53	0,38	180-045-207	/
50	0,72	6300	58	58	0,41	180-050-207	10m
55	0,66	5400	63	63	0,46	180-055-207	/
60	0,6	5400	68	68	0,48	180-060-207	10m
65	0,54	4500	73	73	0,58	180-065-207	/
70	0,48	4500	78	78	0,62	180-070-207	/
75	0,48	3600	84	84	0,65	180-075-207	/
80	0,42	3600	88	88	0,69	180-080-207	10m
90	0,36	2700	99	99	0,8	180-090-207	/
100	0,36	2700	110	110	0,86	180-100-207	10m
110	0,3	2700	119	119	0,93	180-110-207	/
115	0,3	2700	124	124	0,96	180-115-207	/
120	0,3	2700	129	129	1,01	180-120-207	/
125	0,3	2700	135	135	1,07	180-125-207	10m
130	0,24	2700	139	139	1,09	180-130-207	/
140	0,24	1800	149	149	1,25	180-140-207	/
150	0,24	1800	161	161	1,34	180-150-207	10m
160	0,24	1800	170	170	1,58	180-160-207	/
170	0,18	1800	180	180	1,63	180-170-207	/
175	0,18	1800	185	185	1,68	180-175-207	/
180	0,18	1800	190	190	1,72	180-180-207	/
200	0,18	1800	214	214	2,08	180-200-207	/
225	0,12	900	235	235	2,31	180-225-207	/
250	0,12	900	260	260	2,74	180-250-207	/
275	0,12	900	284	284	2,82	180-275-207	/
280	0,12	900	290	290	2,84	180-280-207	/
300	0,11	810	310	310	2,9	180-300-207	/

All data refers to a media and ambient temperature of +20 °C  
 \* refers to the inside of the hose  
 Available from stock in the above listed lengths and sizes.  
 Available on request in other lengths and sizes with print.  
 Subject to technical changes and colour deviations.



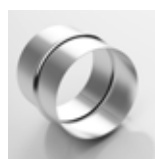
Hose Reducer,  
symmetrical



Master-Grip Hose  
Clamp, screwable



Master-Grip Quick-Fix  
Clamp



Hose Connector



### Master-PVC L-F EL

PVC Film/Foil Hose,  
light duty,  
electroconductive,  
surface resistance  
<10<sup>6</sup>Ohm



#### Material

spiral: spring steel wire, plastic-coated  
wall: soft PVC, electrically conductive  
wall thickness between spirals approx. 0,5 mm

#### Applications

- Chemicals
- Apparatus construction
- Suction and transport hose for solid, liquid and gaseous media
- Danger zones, which require electrically conductive hoses
- Transport of fine-grained particles, such as dust and powder

#### Properties

- extremely flexible
- light
- smallest bending radii
- good chemical resistance
- mostly smooth inner lining
- good oil/alkali/acid resistance
- surface resistance < 10<sup>6</sup> Ohm
- axial compressable
- acc. to TRBS 2153 (Zone 0, 20) for non-flammable liquids/dusts for dissipation of electrostatic charges with grounding on both ends of the helix

#### Temperature Range

- -20°C to +70°C
- peaks to +80°C

