



 **MASTERFLEX**

HOSES FOR THE WOOD WORKING INDUSTRY

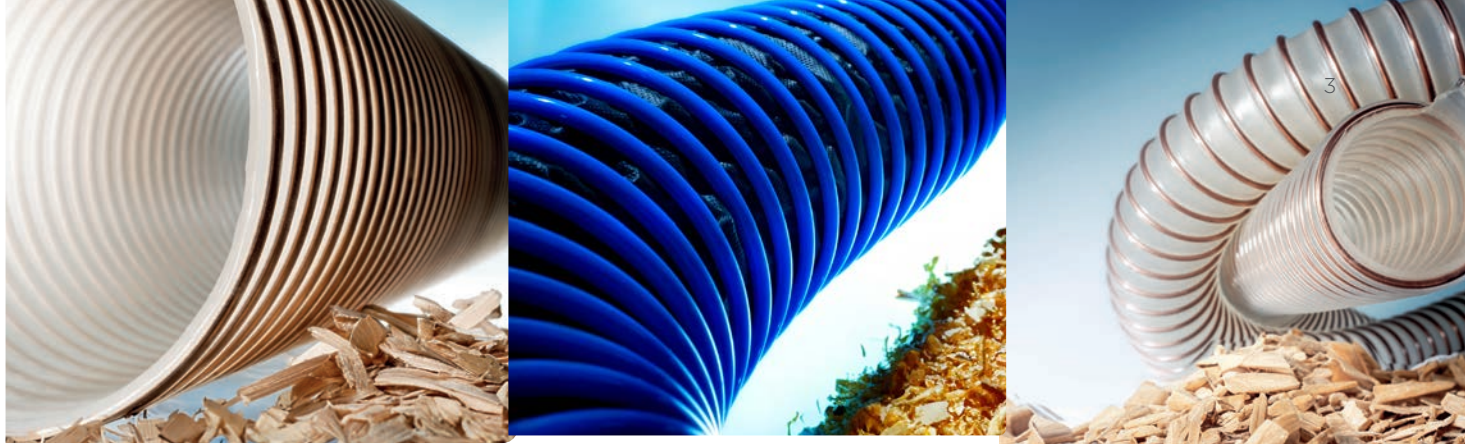
HOSES AND CONNECTORS FOR
THE ENTIRE PRODUCTION
PROCESS

A VALUABLE PART OF THE
MASTERFLEX GROUP

MASTERFLEX

YOUR RELIABLE PARTNER FOR
FLEXIBLE CONNECTIONS





MASTERFLEX – Your partner for high-tech hose systems

The sawmill industry and the wood-based materials industry are the two largest sub-sectors of the wood processing industry in Germany. Wood processing produces various products such as slats, beams, boards, squared timber or sawn goods through to chipboard, thermal insulation boards, plywood and fiberboard, which are made from raw materials such as wood chips and fibers.

The wood material is further processed by planing, milling and impregnation. This produces chips of different sizes and fibres as well as fine dust.

To prioritize safety and prevent dust explosions, it is necessary to safely extract and transport the chips and/or dust produced during the machining and processing of wood.

Masterflex hose solutions for the woodworking industry fulfil the highest requirements in terms of quality, abrasion resistance, flexibility and resilience.

Here you will find an overview of our plastic hoses and connecting elements, which are particularly well suited to the challenges of wood processing:

- Lightweight suction hoses for dust and fine particles
- Highly abrasion-resistant hoses for transporting highly abrasive materials, for filling silos or transport vehicles, suction and blower hoses for use in timber drying
- Coupling and connecting elements

Masterflex products meet all safety standards

Masterflex spiral hoses made of polyurethane (PUR) fulfil all the requirements of the German national standard DIN 26057 and offer maximum possible safety with regard to the requirements and standards for spiral hoses.

Our conductive and permanently antistatic hoses fulfil the requirements of TRGS727 and are suitable for use in ATEX zones or when transporting flammable materials in bulk.

Masterflex hoses also fulfil the requirements of the „Holz-BG“ and „BGI 739-2“.

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Hoses for suction- and dust extraction-systems

Depending on the material and processing speed, different types of dust and chips are produced during wood processing. Depending on the size of the particles, these pose both a health and safety hazard in the workplace.

Dust explosions are one of the most underestimated hazards in the woodworking industry. Microscopically fine particles can quickly transform the ambient air into an ignitable atmosphere. These are created in especially when sanding, sawing, milling and planing wood.

If the combustible dust comes into contact with sufficient oxygen and encounters an effective ignition source, a devastating explosion can be triggered.

Electrostatic charging (charge separation) can also occur when conveying solids such as sawdust or shavings through pipes or hoses due to friction between the conveyed material and the wall or due to friction within the conveyed material itself. It can cause malfunction and damage and trigger fires and explosions if ignitable discharges occur.

To prevent explosions, all systems, machines, devices and components that are used in potentially explosive atmospheres are subject to the European ATEX explosion

protection directive. This also applies to Masterflex hoses, which are used on extraction and dust extraction systems and extract and transport particles and solids.

We recommend the following products for use in extraction and dust extraction systems:

- **Flamex B se**
- **Flamex B-F se**
- **Master-PUR L Trivolution ab DN 250**



APPLICATION: SANDING, SAWING, MILLING, PLANING
MEDIUM: SAWDUST, SAW SHAVINGS, WOOD SHAVINGS





Flamex B se

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

Product Details

Standards

- Complies with DIN 26057
- Complies with the requirements of the Holz-BG
- BGI 739-2
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Construction / Material

- made of steel wire
- made of pure material
- made of specified material
- Addition of flame retardant additives
- Wall thickness between the spirals approx. 0.7 mm
- Spring steel
- made of pure material
- made of specified material
- Addition of flame retardant additives
- Wall thickness between the spirals approx. 0.7 mm
- Polyester Polyurethane

Material specification

- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Properties

Specifications of the product

- Complies with DIN 26057
- Complies with the requirements of the Holz-BG
- BGI 739-2

Chemical Properties

- good UV resistance
- halogen-free
- good resistance to chemicals
- good resistance to oil
- good resistance to petrol
- good ozone resistance

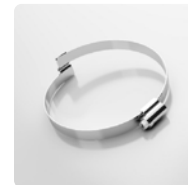
Operating Temperature

- -40 - 90 °C
- peaks to 125 °C

Application Areas

- Plant & Mechanical Engineering
- Robotics & Automation
- Industry
- Ventilation & air-conditioning
- Bulk & Construction
- Wood
- Chemistry
- Plastics
- Conveying
- lifting & feeding technology
- Textile
- Printing & Paper
- Metal & Toolmaking

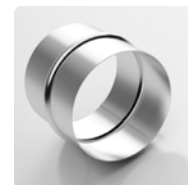
Suitable for the product



Master-Grip Hose Clamp, screwable

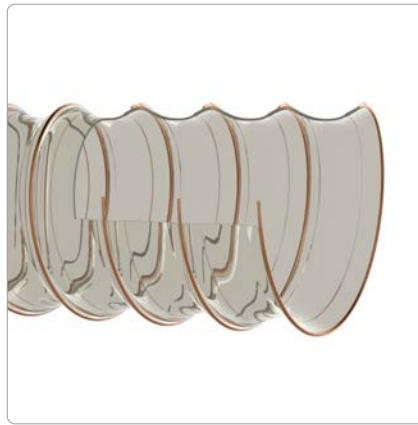


Master-Grip Hose Clamp, screwable, Steel quality W4,



Hose connector

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	bestellbare Standardlängen m	Stock Lengths m
000198:40:x	40	48	48	1.89	0.46	0.30	25.00	5, 10, 15, 20, 25	5, 10
000198:51:x	51	58	58	1.51	0.36	0.38	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000198:60:x	60	68	68	1.26	0.31	0.50	25.00	5, 10, 15, 20, 25	5, 10
000198:63:x	63	71	71	1.20	0.28	0.52	25.00	5, 10, 15, 20, 25	5, 10
000198:65:x	65	73	73	1.13	0.26	0.54	25.00	5, 10, 15, 20, 25	5, 10
000198:70:x	70	78	78	1.01	0.26	0.58	25.00	5, 10, 15, 20, 25	5, 10
000198:75:x	75	83	84	1.01	0.21	0.61	25.00	5, 10, 15, 20, 25	5, 10
000198:76:x	76	85	85	0.94	0.21	0.62	25.00	5, 10, 15, 20, 25	/
000198:80:x	80	88	88	0.88	0.21	0.65	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000198:90:x	90	99	99	0.76	0.15	0.80	25.00	5, 10, 15, 20, 25	5, 10
000198:100:x	100	108	110	0.76	0.15	0.94	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000198:102:x	102	111	111	0.71	0.15	0.95	25.00	5, 10, 15, 20, 25	/
000198:110:x	110	119	119	0.63	0.15	0.97	25.00	5, 10, 15, 20, 25	5, 10
000198:115:x	115	124	124	0.63	0.15	0.98	25.00	5, 10, 15, 20, 25	/
000198:120:x	120	129	129	0.63	0.15	1.00	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000198:125:x	125	134	135	0.63	0.15	1.07	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000198:127:x	127	137	137	0.59	0.15	1.08	25.00	5, 10, 15, 20, 25	/
000198:130:x	130	139	139	0.50	0.15	1.14	25.00	5, 10, 15, 20, 25	5, 10
000198:140:x	140	149	149	0.50	0.10	1.21	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000198:150:x	150	159	161	0.50	0.10	1.27	25.00	5, 10, 15, 20, 25	5, 10
000198:152:x	152	162	162	0.50	0.10	1.30	25.00	5, 10, 15, 20, 25	/
000198:160:x	160	169	170	0.50	0.10	1.42	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000198:170:x	170	179	180	0.38	0.10	1.56	25.00	5, 10, 15, 20, 25	/
000198:175:x	175	184	185	0.38	0.10	1.63	25.00	5, 10, 15, 20, 25	/
000198:180:x	180	189	190	0.38	0.10	1.70	25.00	5, 10, 15, 20, 25	5, 10
000198:200:x	200	210	210	0.38	0.10	1.98	25.00	5, 10, 15, 20, 25	5, 10
000198:203:x	203	213	213	0.36	0.09	2.00	25.00	5, 10, 15, 20, 25	/
000198:225:x	225	235	235	0.25	0.05	2.18	25.00	5, 10, 15, 20, 25	5, 10
000198:250:x	250	260	260	0.25	0.05	2.33	25.00	5, 10, 15, 20, 25	5, 10
000198:254:x	254	264	264	0.25	0.05	2.36	25.00	5, 10, 15, 20, 25	/
000198:275:x	275	285	284	0.25	0.05	2.47	25.00	5, 10, 15, 20, 25	/
000198:280:x	280	290	290	0.25	0.05	2.60	25.00	5, 10, 15, 20, 25	/
000198:300:x	300	310	310	0.23	0.05	3.20	20.00	5, 10, 15, 20	/
000198:315:x	315	325	325	0.23	0.05	3.32	20.00	5, 10, 15, 20	/
000198:325:x	325	335	335	0.23	0.05	3.40	20.00	5, 10, 15, 20	/
000198:350:x	350	360	360	0.12	0.05	3.60	20.00	5, 10, 15, 20	/
000198:400:x	400	411	410	0.12	0.05	4.45	20.00	5, 10, 15, 20	/
000198:450:x	450	461	460	0.12	0.05	5.06	20.00	5, 10, 15, 20	/
000198:500:x	500	511	510	0.12	0.04	5.70	20.00	5, 10, 15, 20	/



Flamex B-F se

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

Product Details

Standards

- Complies with DIN 26057
- Complies with the requirements of the Holz-BG
- BGI 739-2
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Construction / Material

- made of steel wire
- made of highly abrasion-resistant material
- Wall thickness between the spirals approx. 0.5 mm
- Spring steel
- made of highly abrasion-resistant material
- Wall thickness between the spirals approx. 0.5 mm
- Polyester Polyurethane

Material specification

- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Properties

Specifications of the product

- Complies with DIN 26057
- Complies with the requirements of

the Holz-BG

- BGI 739-2

Chemical Properties

- good UV resistance
- halogen-free
- good resistance to chemicals
- good resistance to petrol
- good resistance to oil
- plasticiser-free

Mechanical properties

- permanently kink-resistant, compressible approx. 1:4

Operating Temperature

- -40 - 90 °C
- peaks to 125 °C

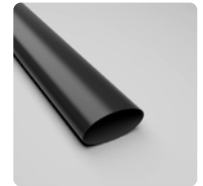
Application Areas

- Agriculture
- Automotive
- Plant & Mechanical Engineering
- Industry
- Ventilation & air-conditioning
- Bulk & Construction
- Wood
- Chemistry
- Food & Pharma
- Waste disposal & cleaning technology
- Plastics
- Conveying
- lifting & feeding technology
- Textile
- Printing & Paper
- Metal & Toolmaking

Suitable for the product



Hose Reducer, symmetrical



Heat Shrink Cuff



Hose connector



Master-Grip Hose Clamp, screwable

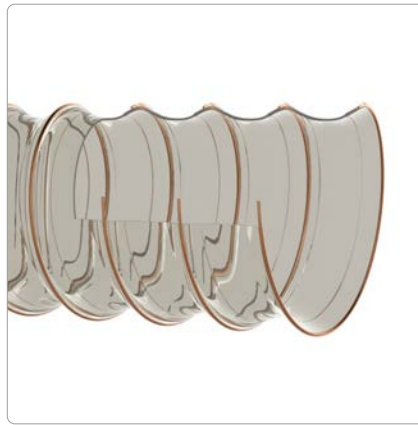


Master-Grip Hose Clamp, screwable, Steel quality W4,



Master-Grip Quick-Fix Clamp

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	beställbare Standardlängen m	Stock Lengths m
000382:40:x	40	46	20	0.82	0.24	0.26	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:45:x	45	51	22	0.80	0.22	0.28	25.00	5, 10, 15, 20, 25	/
000382:51:x	51	57	25	0.78	0.20	0.32	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:60:x	60	68	35	0.76	0.19	0.37	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:63:x	63	71	37	0.72	0.17	0.39	25.00	5, 10, 15, 20, 25	5, 10
000382:65:x	65	73	38	0.68	0.16	0.40	25.00	5, 10, 15, 20, 25	5, 10
000382:70:x	70	78	40	0.61	0.16	0.43	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:76:x	76	83	43	0.61	0.13	0.52	25.00	5, 10, 15, 20, 25	5, 10
000382:80:x	80	88	45	0.53	0.13	0.55	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000382:90:x	90	99	50	0.46	0.09	0.61	25.00	5, 10, 15, 20, 25	5, 10
000382:102:x	102	108	55	0.46	0.09	0.69	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000382:110:x	110	119	60	0.38	0.09	0.75	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:115:x	115	124	63	0.38	0.09	0.78	25.00	5, 10, 15, 20, 25	5, 10
000382:120:x	120	129	65	0.38	0.09	0.81	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000382:127:x	127	136	68	0.38	0.09	0.85	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:130:x	130	139	70	0.30	0.09	0.88	25.00	5, 10, 15, 20, 25	5, 10
000382:140:x	140	149	75	0.30	0.06	0.95	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:152:x	152	159	80	0.30	0.06	1.02	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:160:x	160	169	85	0.30	0.06	1.08	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:170:x	170	179	90	0.23	0.06	1.07	25.00	5, 10, 15, 20, 25	5, 10
000382:175:x	175	184	93	0.23	0.06	1.10	25.00	5, 10, 15, 20, 25	/
000382:180:x	180	189	95	0.23	0.06	1.13	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:200:x	200	208	103	0.23	0.06	1.24	25.00	5, 10, 15, 20, 25	/
000382:203:x	203	210	105	0.23	0.06	1.26	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:250:x	250	257	128	0.15	0.03	1.56	25.00	5, 10, 15, 20, 25	/
000382:225:x	225	235	118	0.15	0.03	1.41	25.00	5, 10, 15, 20, 25	5, 10
000382:254:x	254	260	130	0.15	0.03	1.58	25.00	5, 10, 15, 20, 25	5, 10, 15
000382:280:x	280	290	145	0.15	0.03	1.92	25.00	5, 10, 15, 20, 25	5, 10
000382:300:x	300	310	155	0.14	0.03	2.07	25.00	5, 10, 15, 20, 25	5, 10
000382:350:x	350	360	180	0.12	0.02	2.40	25.00	5, 10, 15, 20, 25	5, 10
000382:400:x	400	410	210	0.12	0.02	2.74	25.00	5, 10, 15, 20, 25	5, 10
000382:50:x	50	56	24	0.79	0.21	0.31	25.00	5, 10, 15, 20, 25	/



Master-PUR LF Trivolution

PU Suction hose & Transport Hose, light duty, very lightweight, antistatic, hardly inflammable acc. to DIN 4102 B1

Product Details

Standards

- Complies with DIN 26057
- according to TRGS 727 and ATEX 2014/34 EU
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Construction / Material

- made of steel wire
- Wall thickness between the spirals approx. 0.4 mm
- Spring steel
- Wall thickness between the spirals approx. 0.4 mm
- Polyester Polyurethane

Material specification

- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Properties

Specifications of the product

- Complies with DIN 26057
- according to TRGS 727 and ATEX 2014/34 EU

Chemical Properties

- microbe-resistant
- halogen-free

- good resistance to chemicals
- good UV resistance
- good resistance to petrol
- plasticiser-free

Mechanical properties

- compressible approx. 1:5, permanently kink-resistant

Physical properties

- permanently antistatic

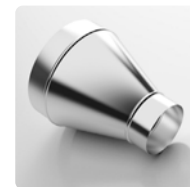
Operating Temperature

- -40 - 90 °C
- peaks to 125 °C

Application Areas

- Agriculture
- Plant & Mechanical Engineering
- Industry
- Ventilation & air-conditioning
- Energy Technology
- Bulk & Construction
- Wood
- Food & Pharma
- Waste disposal & cleaning technology
- Plastics
- Conveying
- lifting & feeding technology
- Textile
- Metal & Toolmaking

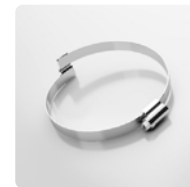
Suitable for the product



Hose Reducer, symmetrical



Hose connector



Master-Grip Hose Clamp, screwable



Master-Grip Hose Clamp, screwable, Steel quality W4,



Master-Grip Quick-Fix Clamp

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	beställbare Standardlängen m	Stock Lengths m
000378:40:x	40	45	22	0.82	0.19	0.15	25.00	5, 10, 15, 20, 25	5, 10
000378:45:x	45	50	24	/	0.18	0.16	25.00	5, 10, 15, 20, 25	/
000378:51:x	51	56	26	0.78	0.16	0.18	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000378:60:x	60	65	30	0.76	0.15	0.21	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000378:63:x	63	68	32	/	0.14	0.22	25.00	5, 10, 15, 20, 25	5, 10
000378:65:x	65	70	33	/	0.13	0.23	25.00	5, 10, 15, 20, 25	5, 10
000378:70:x	70	75	35	0.61	0.13	0.28	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:76:x	76	81	38	0.61	0.10	0.30	25.00	5, 10, 15, 20, 25	5, 10
000378:80:x	80	85	40	0.53	0.10	0.32	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:90:x	90	95	45	0.46	0.07	0.35	25.00	5, 10, 15, 20, 25	/
000378:102:x	102	107	51	0.46	0.07	0.41	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000378:110:x	110	115	55	0.38	0.07	0.44	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:115:x	115	120	57	/	0.07	0.46	25.00	5, 10, 15, 20, 25	/
000378:120:x	120	125	60	0.38	0.07	0.48	25.00	5, 10, 15, 20, 25	10
000378:127:x	127	132	64	0.38	0.07	0.50	25.00	5, 10, 15, 20, 25	5, 10
000378:130:x	130	135	65	/	0.07	0.52	25.00	5, 10, 15, 20, 25	5, 10
000378:140:x	140	145	70	/	0.05	0.55	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:152:x	152	157	76	0.30	0.05	0.60	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:160:x	160	165	80	0.30	0.05	0.69	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:170:x	170	175	85	/	0.05	0.73	25.00	5, 10, 15, 20, 25	/
000378:180:x	180	185	90	0.23	0.05	0.77	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:203:x	203	208	102	0.23	0.05	0.94	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:254:x	254	259	127	0.15	0.02	1.12	25.00	5, 10, 15, 20, 25	5, 10, 15
000378:275:x	275	282	138	/	0.02	1.22	25.00	5, 10, 15, 20, 25	/
000378:280:x	280	285	140	/	0.02	1.22	25.00	5, 10, 15, 20, 25	/
000378:305:x	305	310	153	/	0.02	1.34	25.00	5, 10, 15, 20, 25	5, 10
000378:315:x	315	320	158	0.14	0.02	1.38	25.00	5, 10, 15, 20, 25	/
000378:325:x	325	330	163	/	0.02	1.42	25.00	5, 10, 15, 20, 25	/
000378:350:x	350	355	175	0.12	0.02	1.53	25.00	5, 10, 15, 20, 25	5, 10
000378:400:x	400	405	200	0.12	0.02	1.74	25.00	5, 10, 15, 20, 25	/
000378:250:x	250	255	125	0.16	0.05	1.11	25.00	5, 10, 15, 20, 25	/



Master-PUR L Trivolution

PU Suction hose & Transport Hose, extremely flexible, light duty, antistatic, microbe-resistant, hardly inflammable acc. to DIN 4102 B1

Product Details

Standards

- Complies with DIN 26057
- according to TRGS 727 and ATEX 2014/34 EU
- Surface resistance $R_0 < 10^9$ Ohm
- measured according to DIN EN ISO 8031
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Construction / Material

- made of steel wire
- made of pure material
- made of specified material
- Wall thickness between the spirals approx. 0.7 mm
- Spring steel
- Polyester Polyurethane

Material specification

- Surface resistance $R_0 < 10^9$ Ohm
- measured according to DIN EN ISO 8031
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Properties

Specifications of the product

- Complies with DIN 26057
- according to TRGS 727 and ATEX 2014/34 EU

Chemical Properties

- microbe-resistant
- halogen-free
- good resistance to chemicals
- good UV resistance
- good resistance to oil
- good resistance to petrol
- good ozone resistance
- plasticiser-free

Physical properties

- permanently antistatic

Other

- Configurable as a hose system with digital interface for compatibility with the AMPIUS® app

Operating Temperature

- -40 - 90 °C
- peaks to 125 °C

Application Areas

- Agriculture
- Autootive
- Plant & Mechanical Engineering
- Robotics & Automation
- Industry
- Semiconductor Industry
- Aerospace technology
- Ventilation & air-conditioning
- Energy Technology
- Bulk & Construction
- Sea & rail transport
- Wood
- Chemistry
- Food & Pharma
- Waste disposal & cleaning technology

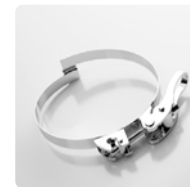
Suitable for the product



Master-Grip Hose Clamp, screwable



Master-Grip Hose Clamp, screwable, Steel quality W4,



Master-Grip Quick-Fix Clamp



Hose connector



PU Screw Cuff EL



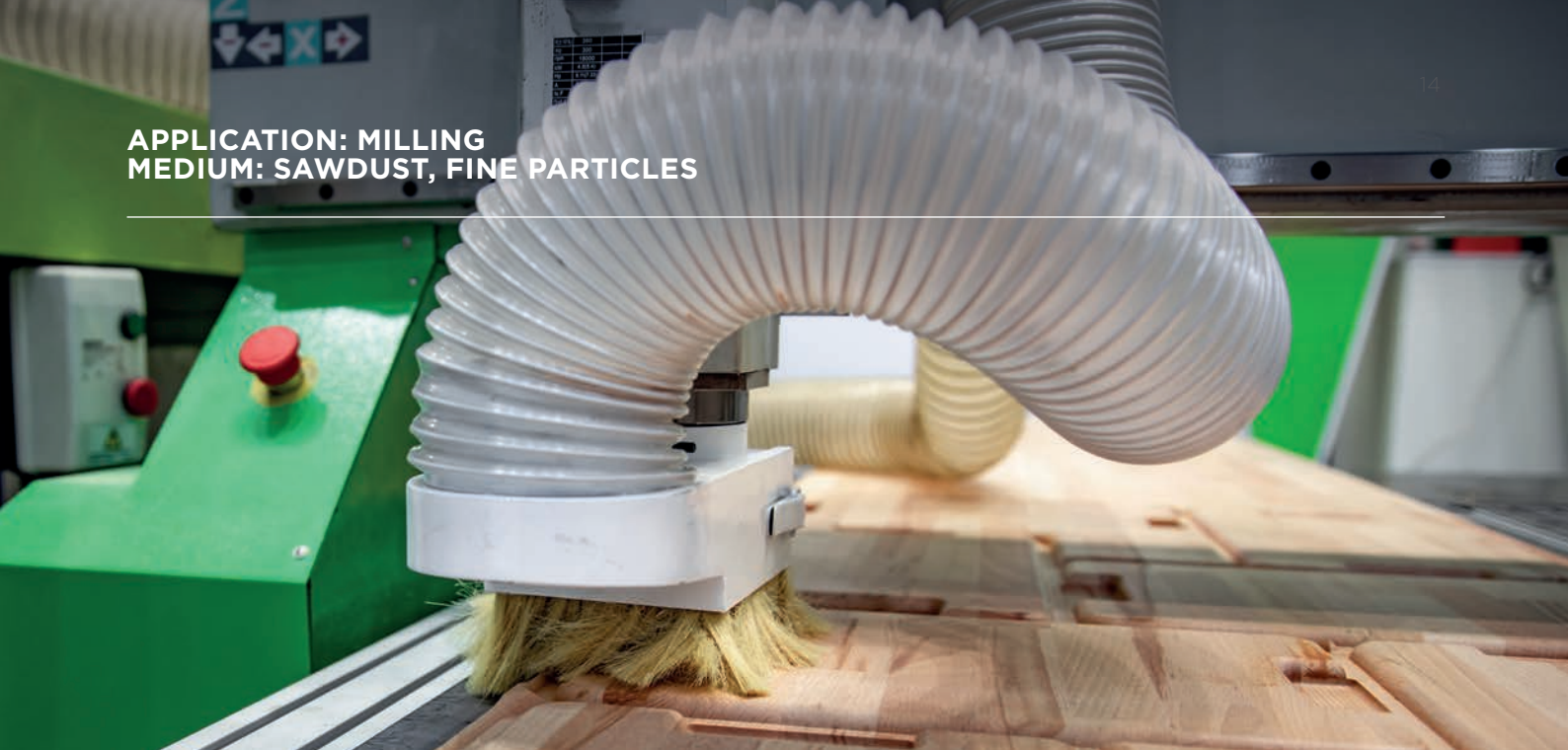
Combiflex PU Threaded Sockets



Combiflex PU Swivel Flange

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	beställbare Standardlängen m	Stock Lengths m
000007:25:x	25	30	30	3.34	0.80	0.23	25.00	5, 10, 15, 20, 25	/
000007:26:x	26	31	31	3.22	0.79	0.25	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000007:32:x	32	40	40	2.52	0.71	0.35	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000007:38:x	38	46	46	2.10	0.66	0.39	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000007:40:x	40	48	48	2.10	0.66	0.40	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:45:x	45	53	53	1.84	0.59	0.42	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:51:x	51	58	58	1.68	0.52	0.48	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000007:55:x	55	63	63	1.54	0.44	0.51	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:60:x	60	68	68	1.40	0.44	0.53	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:63:x	63	70	70	1.34	0.41	0.57	25.00	5, 10, 15, 20, 25	5, 10
000007:65:x	65	73	73	1.26	0.37	0.64	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:70:x	70	78	78	1.12	0.37	0.68	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:76:x	76	84	84	1.12	0.29	0.72	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:80:x	80	88	88	0.98	0.29	0.76	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:90:x	90	99	99	0.84	0.22	0.88	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:102:x	102	110	110	0.84	0.22	0.95	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:110:x	110	119	119	0.70	0.22	1.03	25.00	5, 10, 15, 20, 25	5, 10
000007:115:x	115	124	124	0.70	0.22	1.06	25.00	5, 10, 15, 20, 25	5, 10
000007:120:x	120	129	129	0.70	0.22	1.12	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:127:x	127	135	135	0.70	0.22	1.18	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:130:x	130	139	139	0.56	0.22	1.20	25.00	5, 10, 15, 20, 25	5, 10
000007:140:x	140	149	149	0.56	0.15	1.38	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:152:x	152	161	161	0.56	0.15	1.48	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:160:x	160	170	170	0.56	0.15	1.74	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:170:x	170	180	180	0.42	0.15	1.80	25.00	5, 10, 15, 20, 25	5, 10
000007:175:x	175	185	185	0.42	0.15	1.85	25.00	5, 10, 15, 20, 25	5, 10
000007:180:x	180	190	190	0.42	0.15	1.90	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:203:x	203	214	214	0.42	0.15	2.30	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:225:x	225	235	235	0.28	0.07	2.55	25.00	5, 10, 15, 20, 25	5, 10
000007:250:x	250	260	260	0.28	0.07	3.02	25.00	5, 10, 15, 20, 25	5, 10, 15
000007:254:x	254	264	264	0.28	0.07	3.02	25.00	5, 10, 15, 20, 25	/
000007:275:x	275	284	284	0.28	0.07	3.11	25.00	5, 10, 15, 20, 25	/
000007:280:x	280	290	290	0.28	0.07	3.14	20.00	5, 10, 15, 20	5, 10
000007:300:x	300	310	310	0.25	0.07	3.20	20.00	5, 10, 15, 20	5, 10
000007:315:x	315	325	325	0.25	0.07	3.32	20.00	5, 10, 15, 20	5, 10
000007:325:x	325	335	335	0.25	0.07	3.40	20.00	5, 10, 15, 20	5, 10
000007:350:x	350	360	360	0.13	0.07	3.60	20.00	5, 10, 15, 20	5, 10
000007:375:x	375	386	386	0.13	0.05	3.85	20.00	5, 10, 15, 20	/
000007:400:x	400	411	410	0.13	0.05	4.45	20.00	5, 10, 15, 20	5, 10
000007:450:x	450	461	460	0.13	0.05	5.06	20.00	5, 10, 15, 20	5, 10
000007:500:x	500	511	510	0.13	0.05	5.70	20.00	5, 10, 15, 20	5, 10

**APPLICATION: MILLING
MEDIUM: SAWDUST, FINE PARTICLES**



Hoses for CNC processing machines

CNC milling machines are used when it comes to creating engravings, surface treatment or the 3D creation of molds. Extraction hoses on CNC milling machines extract the dust, smoke, vapour or chips produced during milling.

Extraction hoses for use on CNC milling machines should be particularly flexible to allow easy positioning and movement of the machine. At the same time, they safely remove dust and chips from the working environment. This process minimises deposits, which leads to a longer tool life and reduces maintenance costs. An effective extraction system can help to ensure that no chips remain on the workpiece, improving surface quality and reducing rework.

Masterflex hoses offer high abrasion resistance with maximum flexibility and compressibility. Lightweight hoses with reinforced wire that can withstand high negative pressure are particularly suitable. The suction hoses for this area of application are flame-retardant in accordance with DIN 4102 B1.

We recommend for extraction applications on CNC machines:

- **Flamex B-F se for processing centres**

Compressed air hoses also help to increase the efficiency, precision and reliability of CNC machines by supporting a variety of mechanical and pneumatic functions. For example, they transport compressed air to various pneumatic components such as cylinders and valves, which are responsible for movements and positioning within the machine.

Compressed air is often used to clean the working area of CNC machines. It removes chips, dust and other contaminants from the machining area, ensuring precise machining and protection of tools and workpieces.

Compressed air hoses are often an integral part of the automatic tool changing systems in CNC machines. They supply the compressed air required to operate the mechanisms that retrieve tools from the tool magazine and insert them into the spindle or vice versa.

We recommend the following for compressed air applications on CNC machines:

- **Master-Tube PUR 98A**
- **Master-Tube PA 12w**
- **Master-Tube PUR 98A Spiral**





Flamex B-F se for machining centers

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

Product Details

Standards

- Complies with the requirements of the Holz-BG
- BGI 739-2
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Construction / Material

- made of reinforced steel wire
- Wall thickness between the spirals approx. 0.5 mm
- Spring steel
- Wall thickness between the spirals approx. 0.5 mm
- Polyester Polyurethane

Material specification

- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Properties

Specifications of the product

- Complies with the requirements of the Holz-BG
- BGI 739-2

Chemical Properties

- halogen-free
- good resistance to chemicals

- good resistance to petrol
- good resistance to oil
- plasticiser-free

Mechanical properties

- compressible approx. 1:4, permanently kink-resistant

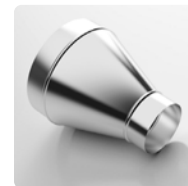
Operating Temperature

- -40 - +90 °C
- peaks to 125 °C

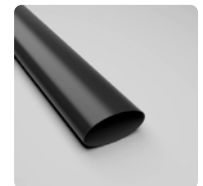
Application Areas

- Plant & Mechanical Engineering
- Wood

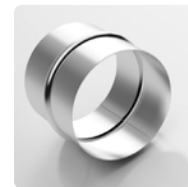
Suitable for the product



Hose Reducer, symmetrical



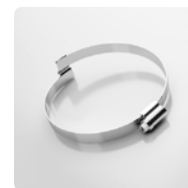
Heat Shrink Cuff



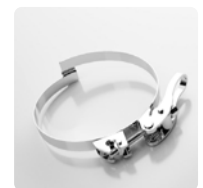
Hose connector



Master-Grip Hose Clamp, screwable

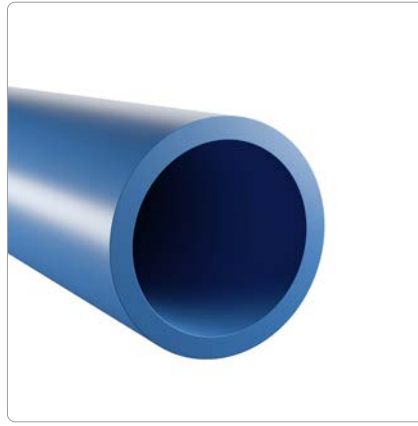


Master-Grip Hose Clamp, screwable, Steel quality W4,



Master-Grip Quick-Fix Clamp

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	bestellbare Standardlängen m	Stock Lengths m
000389:200:x	200	211	120	0.25	0.030	2.13	25.00	5, 10, 15, 20, 25	10
000389:225:x	225	235	130	0.22	0.025	2.38	25.00	5, 10, 15, 20, 25	/
000389:250:x	250	262	140	0.20	0.025	2.66	25.00	5, 10, 15, 20, 25	10, 15
000389:280:x	280	290	150	0.20	0.020	2.95	25.00	5, 10, 15, 20, 25	10
000389:300:x	300	312	185	0.16	0.020	3.17	25.00	5, 10, 15, 20, 25	10, 15
000389:315:x	315	325	190	0.16	0.020	3.31	25.00	5, 10, 15, 20, 25	10
000389:350:x	350	362	210	0.14	0.020	3.69	25.00	5, 10, 15, 20, 25	10
000389:400:x	400	412	230	0.13	0.015	4.21	25.00	5, 10, 15, 20, 25	10



Master-Tube PUR 98A

PU hose for industrial applications, FDA compliant, temperature and UV resistant

Product Details

Execution of the wall

- highly abrasion-resistant
- insensitive to stress corrosion cracking
- high impact strength
- dielectric properties
- elastic properties

Properties

Chemical Properties

- good resistance to oil
- good UV resistance
- halogen-free
- plasticiser-free
- free from paint wetting impairment substances (LABS)

Mechanical properties

- Kink-resistant

Physical properties

- flexible at low temperatures, good damping behaviour

Operating Temperature

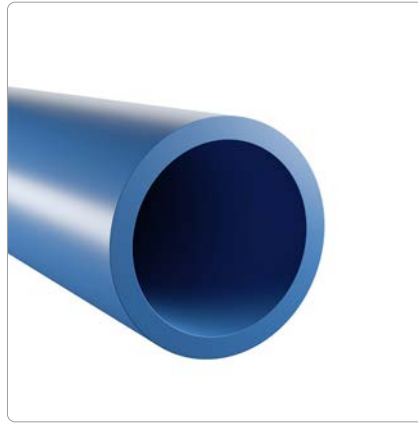
- -40 - 85 °C

Application Areas

- Agriculture
- Automotive
- Plant & Mechanical Engineering
- Robotics & Automation
- Industry
- Semiconductor Industry
- Aerospace technology

- Bulk & Construction
- Sea & rail transport
- Wood
- Chemistry
- Surface Technology
- Food & Pharma
- Waste disposal & cleaning technology
- Plastics
- Conveying
- lifting & feeding technology
- White goods
- Textile
- Printing & Paper
- Vehicle construction
- Metal & Toolmaking

Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Inner Ø ca. mm	Weight g/m
2.0	4	20	20	2.0	11
2.7	4	20	11	2.7	9
3.0	5	25	15	3.0	15
4.0	6	30	12	4.0	19
5.0	8	40	13	5.0	37
5.5	8	40	11	5.5	32
5.7	8	40	10	5.7	30
6.0	8	40	8	6.0	27
6.5	10	50	12	6.5	55
7.0	10	50	10	7.0	49
8.0	10	50	6	8.0	34
8.0	12	60	12	8.0	77
9.0	12	60	8	9.0	60
11.0	16	80	11	11.0	129



Master-Tube PA 12w

Modified polyamide hose, abrasion resistant, LABS-free, impact resistant

Product Details

Execution of the wall

- highly abrasion-resistant
- insensitive to stress corrosion cracking
- high impact strength

Properties

Specifications of the product

- manufactured with calibrated outer diameter

Chemical Properties

- good resistance to chemicals
- good UV resistance
- halogen-free
- hydrolysis resistant
- free from paint wetting impairment substances (LABS)

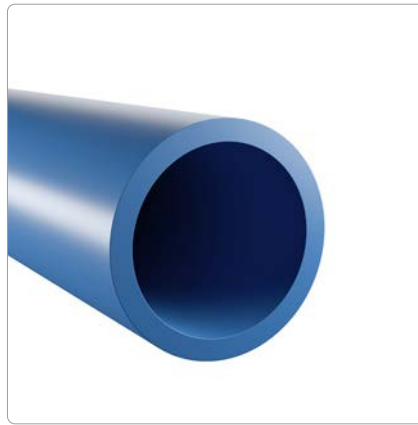
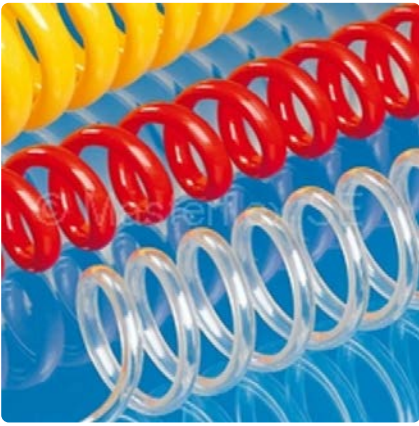
Operating Temperature

- -40 - 90 °C

Application Areas

- Wood

Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Weight g/m
2	4	10	46	9.8
2,9	4	20	22	6.2
3	5	20*	35*	13.1
4	6	20	29	16.3
5	8	30	35	31.9
5,5	8	40*	25*	27.6
6	8	40	21	22.9
6	10	70*	35*	29.4
7	10	40	25	41.7
7,5	10	70*	20*	35.7
8	10	40	15	29.4
8	12	40	32	65.3
9	12	70	22	51.5
10	12	90	13	35.9
10	14	120*	25	78.4
11	14	120*	16*	61.3
12	15	140*	15*	66.2
12	16	140*	20*	91.5
14	18	170*	17*	104.6
16	20	170*	15*	117.6
18	22	200*	14*	130.7



Master-Tube PUR 98A Spiral

PU-Schlauch für industrielle Anwendungen in spiralisierter Ausführung, temperatur- und UV-beständig

Product Details

Execution of the wall

- highly abrasion-resistant
- insensitive to stress corrosion cracking
- high impact strength
- dielectric properties

elastic properties

Properties

Chemical Properties

- good resistance to oil
- good UV resistance
- halogen-free
- plasticiser-free
- free from paint wetting impairment substances (LABS)

Mechanical properties

- Kink-resistant

Physical properties

- flexible at low temperatures, good damping behaviour

Other

- good recovery properties

Application Areas

- Agriculture
- Automotive
- Plant & Mechanical Engineering
- Robotics & Automation
- Industry
- Semiconductor Industry
- Bulk & Construction

- Sea & rail transport
- Wood
- Chemistry
- Surface Technology
- Food & Pharma
- Waste disposal & cleaning technology
- Plastics
- Conveying
- lifting & feeding technology
- White goods
- Textile
- Printing & Paper
- Vehicle construction
- Metal & Toolmaking

Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Inner Ø ca. mm	Weight g/m
2.0	4	20	20	2.0	11
2.7	4	20	11	2.7	9
3.0	5	25	15	3.0	15
4.0	6	30	12	4.0	19
5.0	8	40	13	5.0	37
5.5	8	40	11	5.5	32
5.7	8	40	10	5.7	30
6.0	8	40	8	6.0	27
6.5	10	50	12	6.5	55
7.0	10	50	10	7.0	49
8.0	10	50	6	8.0	34
8.0	12	60	12	8.0	77
9.0	12	60	8	9.0	60
11.0	16	80	11	11.0	129

Hoses for movable vacuum cleaners and mobile dust extractors

Extraction hoses for industrial vacuum cleaners or dust extractors should be particularly flexible and mobile in order to move them to different locations within an industrial facility. The extraction hose is often connected to a filter system directly on the industrial vacuum cleaner. This filter ensures that the particles suctioned are efficiently retained and do not get back into the environment.

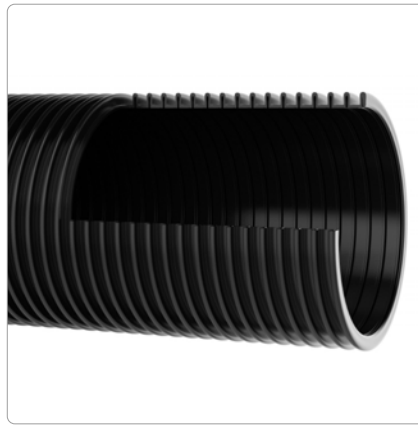
In this application, high suction power, constant contact with the floor or falling workpieces place a high mechanical load on the hose. The Master-PUR Step from Masterflex, for example, is particularly suitable for use on mobile dust extractors. Thanks to its excellent recovery properties and a hollow plastic spiral, it can withstand High mechanical strains and always returns to its original shape. It is largely smooth on the inside and therefore offers optimum flow properties. It also has an earthing wire.

We recommend for use on mobile vacuum cleaners or mobile dust extractors:

- Master-VAC EL
- Polderflex PVC
- Master-PUR Step



**APPLICATION: MILLING, SAWING, GRINDING DIRECTLY ON THE MACHINE
MEDIUM: SAWDUST, FINE PARTICLES**



Master-VAC EL

PE-EVA Suction Hose & Transport Hose, lightweight, crush-resistant, electroconductive

Product Details

Standards

- RoHS-compliant

Construction / Material

- made of specified material
- made of specified material
- PE-EVA Co-polymer

Material specification

- Surface resistance $R_0 < 10^6$ Ohm

Properties

Specifications of the product

- RoHS-compliant

Chemical Properties

- good resistance to oil
- good ozone resistance
- good resistance to alkaline solutions
- good resistance to acids
- good UV resistance

Physical properties

- airtight, watertight, buoyant (spec. weight 0.94)

Operating Temperature

- -40 - 60 °C
- peaks to 70 °C

Application Areas

- Wood
- Waste disposal & cleaning technology

Suitable for the product



Hose Clamp with Worm-Gear

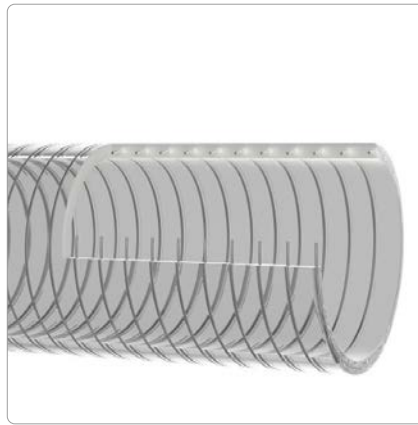


Hose Clamp with Worm-Gear, Steel quality W4, stainless



Cuff for Master-VAC

Extended Article Number	Nominal Size (DN) mm	Bending radius mm	Negative pressure bar	Weight kg/m	Max. Production length m	bestellbare Standardlängen m	Stock Lengths m
000467:25:x	25	60	0.74	0.15	20.00	15	15
000467:28:x	28	70	0.74	0.19	20.00	15	15
000467:32:x	32	70	0.49	0.22	20.00	15, 20	20
000467:38:x	38	80	0.49	0.29	20.00	15, 20	15
000467:45:x	45	90	0.49	0.37	20.00	20	/
000467:50:x	50	100	0.39	0.42	20.00	15, 20	15, 20



Polderflex PVC

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

Product Details

Standards

- Manufacturing process according to GMP EC 2023/2006
- approved for direct food contact of categories A / B / C / E
- according to EU Directive 1935/2004
- 10/2011 and its latest amending Directives

Construction / Material

- made of steel wire
- made of specified material
- Wall thickness between the spirals approx. 3 - 10 mm, depending on DN
- Spring steel
- depending on DN
- soft PVC

Material specification

- approved for direct food contact of categories A / B / C / E
- according to EU Directive 1935/2004
- 10/2011 and its latest amending Directives

Properties

Specifications of the product

- Manufacturing process according to GMP EC 2023/2006

Chemical Properties

- atoxic

- physiologically harmless
- good resistance to oil
- good resistance to alkaline solutions
- good resistance to acids

Other

- high vacuum and good pressure resistance

Operating Temperature

- -20 - 70 °C
- peaks to 80 °C

Application Areas

- Bulk & Construction
- Sea & rail transport
- Wood
- Chemistry
- Food & Pharma
- Plastics
- Vehicle construction

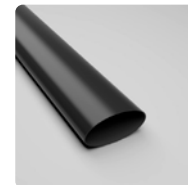
Suitable for the product



Hose connector



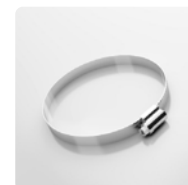
Hose Reducer, symmetrical



Heat Shrink Cuff



Hose Clamp with Worm-Gear



Hose Clamp with Worm-Gear, Steel quality W4, stainless

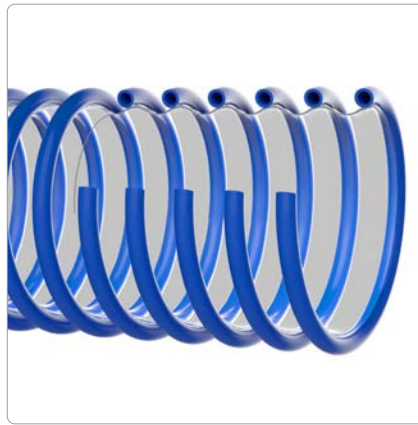


Hose Clamp with Bolts



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

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	bestellbare Standardlängen m	Stock Lengths m
000446:13:x	13	19	26	9.00	0.88	0.22	50.00	50	50
000446:16:x	16	22	32	9.00	0.88	0.27	50.00	50	/
000446:19:x	19	26	38	8.00	0.88	0.35	50.00	30, 50	50
000446:20:x	20	27	40	8.00	0.88	0.34	50.00	50	50
000446:25:x	25	33	50	8.00	0.88	0.52	50.00	50	50
000446:32:x	32	40	64	8.00	0.88	0.66	50.00	30, 50	30
000446:38:x	38	47	76	7.00	0.88	0.80	50.00	30, 50	30
000446:40:x	40	50	80	7.00	0.88	0.95	50.00	30, 50	30
000446:45:x	45	55	90	6.00	0.88	1.15	50.00	30	30
000446:51:x	51	62	102	5.00	0.88	1.35	50.00	30, 50	30
000446:60:x	60	72	120	5.00	0.88	1.75	50.00	30, 50	30
000446:63:x	63	75	126	5.00	0.88	1.80	50.00	30	50
000446:76:x	76	89	152	4.00	0.88	2.30	30.00	30	30
000446:80:x	80	93	160	4.00	0.88	2.58	30.00	30	/
000446:90:x	90	104	270	4.00	0.88	2.95	30.00	30	/
000446:102:x	102	117	306	3.00	0.88	3.75	20.00	20	/
000446:127:x	127	143	381	3.00	0.88	4.80	15.00	15	/
000446:152:x	152	170	456	2.00	0.88	6.50	15.00	15	/



Master-PUR STEP

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

Product Details

Standards

- according to TRGS 727 and ATEX 2014/34 EU
- Complies with the requirements of the Holz-BG
- BGI 739-2
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Construction / Material

- made of pure material
- made of specified material
- Addition of flame retardant additives
- Wall thickness between the spirals approx. 0.5 mm
- made of pure material
- made of specified material
- Addition of flame retardant additives
- Wall thickness between the spirals approx. 0.5 mm
- made of flame retardant material
- Polyurethane
- Made of plastic as a special hose (strand) and inserted into the helix
- Polyester Polyurethane

Material specification

- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Properties

Specifications of the product

- Complies with the requirements of the Holz-BG
- BGI 739-2
- according to TRGS 727 and ATEX 2014/34 EU

Chemical Properties

- good resistance to chemicals
- good UV resistance
- good resistance to oil
- good resistance to petrol

Other

- good recovery properties

Operating Temperature

- -40 - 90 °C
- peaks to 125 °C

Application Areas

- Plant & Mechanical Engineering
- Industry
- Aerospace technology
- Ventilation & air-conditioning
- Sea & rail transport
- Wood
- Plastics
- Conveying
- lifting & feeding technology
- Textile
- Metal & Toolmaking

Suitable for the product



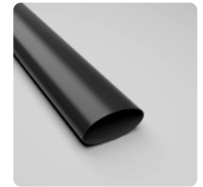
Car-Grip Hose Clamp, screwable



Car-Grip Hose Clamp, screwable, Steel quality W4, stainless steel



Car-Grip Quick-Fix Clamp



Heat Shrink Cuff



Hose connector

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	bestellbare Standardlängen m	Stock Lengths m
000396:38:x	38	64	48	0.80	0.21	0.37	25.00	5, 10, 15, 20, 25	10, 15
000396:51:x	51	68	50	0.78	0.20	0.39	25.00	5, 10, 15, 20, 25	5, 10, 15
000396:60:x	60	80	65	0.76	0.19	0.45	25.00	5, 10, 15, 20, 25	5, 10
000396:76:x	76	95	75	0.61	0.13	0.61	25.00	5, 10, 15, 20, 25	/
000396:80:x	80	100	80	0.53	0.13	0.65	25.00	5, 10, 15, 20, 25	5, 10, 20
000396:102:x	102	120	100	0.46	0.09	0.80	25.00	5, 10, 15, 20, 25	5, 10
000396:120:x	120	140	120	0.38	0.09	0.95	25.00	5, 10, 15, 20, 25	5, 10
000396:140:x	140	160	140	0.30	0.06	1.15	25.00	5, 10, 15, 20, 25	/
000396:152:x	152	170	150	0.30	0.06	1.20	25.00	5, 10, 15, 20, 25	/
000396:160:x	160	180	160	0.30	0.06	1.30	25.00	5, 10, 15, 20, 25	/

APPLICATION: CONVEYING/ TRANSPORT
MEDIUM: HIGHLY ABRASIVE MEDIA SUCH AS COARSE CHIPS AND PELLETS



Hoses for woodchip and pellet transport

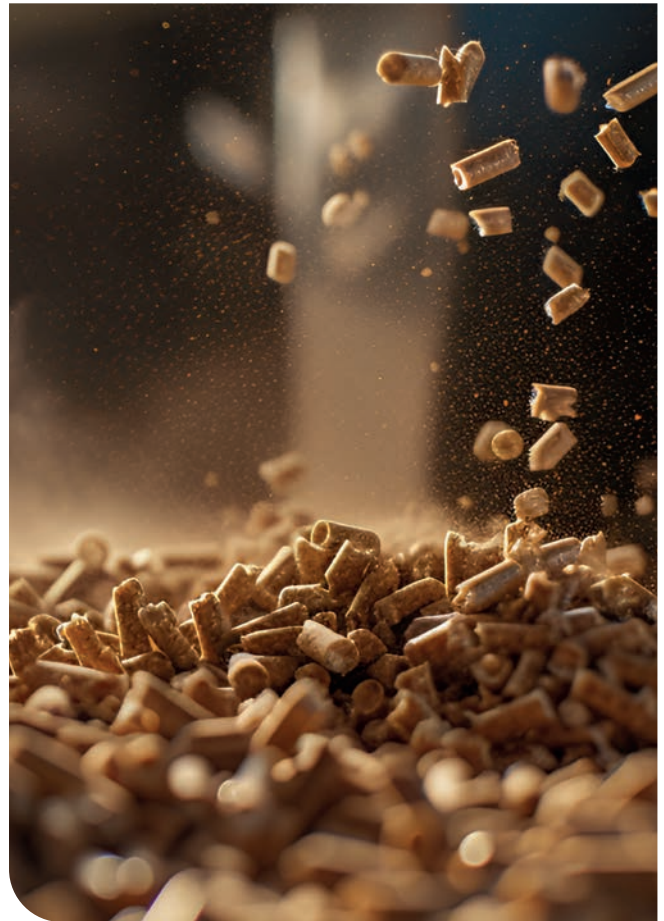
Various by-products are produced during the processing of wood. Sawdust or planing residues, for example, are processed into wood pellets. The raw material is delivered by truck to the pellet production plants via loading stations for further processing. Wood chips are also produced during wood processing. They also have to be transported from the production site to the silo or further.

Hoses from Masterflex are used to transport materials efficiently from one place to another. They enable a continuous flow of material, which optimises the entire transportation process. Thanks to their flexibility, the hoses adapt to different surfaces and environmental requirements. This is particularly useful when the material is transported over uneven terrain or through different production areas. In some cases, the material is transported using compressed air or vacuum. This enables precise control of the material flow and facilitates handling in different production phases.

High demands are placed on the resilience of the hoses used. The impact of the highly abrasive wood particles on the hose wall causes a high level of abrasion. The hose material used should therefore have a relatively smooth hose wall and therefore optimum flow properties. Hoses from Masterflex fulfil these requirements and score points with their high flexibility and good service life.

For the transport of wood chips or pellets, we recommend:

- **Master-PUR H Trivolution**
- **Master-PUR HX Trivolution**





Master-PUR H Trivolution

PU Suction hose & Transport Hose, very flexible, antistatic, microbe-resistant, hardly inflammable acc. to DIN 4102 B1

Product Details

Standards

- Complies with DIN 26057
- according to TRGS 727 and ATEX 2014/34 EU
- Surface resistance $R_0 < 10^9$ Ohm
- measured according to DIN EN ISO 8031
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Construction / Material

- made of steel wire
- made of pure material
- made of specified material
- Addition of a non-migrating permanent antistatic agent
- Wall thickness between the spirals approx. 1.4 mm
- Spring steel
- Polyester Polyurethane

Material specification

- Surface resistance $R_0 < 10^9$ Ohm
- measured according to DIN EN ISO 8031
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Properties

Specifications of the product

- Complies with DIN 26057

- according to TRGS 727 and ATEX 2014/34 EU
-

Chemical Properties

- microbe-resistant
- halogen-free
- good resistance to chemicals
- good UV resistance
- good resistance to oil
- good resistance to petrol
- good ozone resistance
- plasticiser-free

Physical properties

- permanently antistatic

Other

- high vacuum and good pressure resistance, Configurable as a hose system with digital interface for compatibility with the AMPIUS® app

Operating Temperature

- -40 - 90 °C
- peaks to 125 °C

Application Areas

- Agriculture
- Automotive
- Plant & Mechanical Engineering
- Robotics & Automation
- Industry
- Semiconductor Industry
- Aerospace technology
- Ventilation & air-conditioning
- Energy Technology
- Bulk & Construction
- Wood
- Chemistry

Suitable for the product



Master-Grip Hose Clamp, screwable



Master-Grip Hose Clamp, screwable, Steel quality W4,



Master-Grip Quick-Fix Clamp



Hose connector



PU Screw Cuff EL



Combiflex PU Threaded Sockets



Combiflex PU Swivel Flange

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	beställbare Standardlängen m	Stock Lengths m
000063:13:x	13	19	38	4.70	0.92	0.15	25.00	5, 10, 15, 20, 25	5, 10
000063:16:x	16	22	40	4.50	0.92	0.20	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:20:x	20	26	43	4.30	0.92	0.22	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:25:x	25	32	46	4.19	0.92	0.28	25.00	5, 10, 15, 20, 25	/
000063:26:x	26	33	47	4.16	0.92	0.29	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000063:30:x	30	39,2	51,3	3.25	0.92	0.32	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:32:x	32	41	60	3.25	0.92	0.39	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000063:38:x	38	47	69	3.12	0.82	0.46	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000063:40:x	40	49	72	3.00	0.82	0.49	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000063:45:x	45	55	80	2.95	0.81	0.55	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000063:50:x	50	60	86	2.82	0.82	0.66	25.00	5, 10, 15, 20, 25	/
000063:51:x	51	61	87	2.90	0.82	0.71	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000063:55:x	55	65	95	2.75	0.76	0.77	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:60:x	60	70	102	2.55	0.74	0.84	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000063:63:x	63	72,6	106	2.49	0.71	0.87	25.00	5, 10, 15, 20, 25	5, 10
000063:65:x	65	75	112	2.40	0.66	0.91	25.00	5, 10, 15, 20, 25	5, 10, 15, 20
000063:70:x	70	80	117	2.25	0.66	0.97	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:76:x	76	87	126	2.00	0.59	1.06	25.00	5, 10, 15, 20, 25	10, 15
000063:80:x	80	91	132	2.00	0.59	1.11	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:90:x	90	101	149	1.65	0.52	1.25	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:100:x	100	110	163	1.54	0.45	1.43	25.00	5, 10, 15, 20, 25	/
000063:102:x	102	112	165	1.50	0.44	1.48	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:110:x	110	121	179	1.35	0.46	1.61	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:115:x	115	126	186	1.35	0.31	1.68	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:120:x	120	131	194	1.30	0.31	1.75	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:127:x	127	138	203	1.30	0.31	1.91	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:130:x	130	141	209	1.30	0.31	1.96	25.00	5, 10, 15, 20, 25	5, 10
000063:140:x	140	151	224	1.05	0.26	2.11	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:150:x	150	161	240	1.05	0.26	2.31	25.00	5, 10, 15, 20, 25	/
000063:152:x	152	163	242	1.05	0.26	2.29	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:160:x	160	171	255	0.90	0.25	2.51	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:170:x	170	181	270	0.90	0.18	2.67	25.00	5, 10, 15, 20, 25	5, 10
000063:175:x	175	186	278	0.90	0.18	2.74	25.00	5, 10, 15, 20, 25	/
000063:180:x	180	191	285	0.75	0.18	2.82	25.00	5, 10, 15, 20, 25	5, 10
000063:200:x	200	212	316	0.75	0.18	3.42	25.00	5, 10, 15, 20, 25	/
000063:203:x	203	215	321	0.75	0.18	3.50	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:225:x	225	237	353	0.60	0.12	3.65	25.00	5, 10, 15, 20, 25	5, 10
000063:250:x	250	263	390	0.60	0.12	3.91	25.00	5, 10, 15, 20, 25	5, 10, 15
000063:254:x	254	267	396	0.58	0.12	3.91	25.00	5, 10, 15, 20, 25	/
000063:275:x	275	288	426	0.45	0.12	4.22	25.00	5, 10, 15, 20, 25	/
000063:280:x	280	293	435	0.45	0.12	4.30	25.00	5, 10, 15, 20, 25	5, 10
000063:300:x	300	313	465	0.45	0.12	4.94	20.00	5, 10, 15, 20	5, 10
000063:315:x	315	328	488	0.45	0.12	5.19	20.00	5, 10, 15, 20	/
000063:325:x	325	338	503	0.45	0.12	5.35	20.00	5, 10, 15, 20	/
000063:350:x	350	363	540	0.45	0.12	6.96	20.00	5, 10, 15, 20	5, 10
000063:375:x	375	388	580	0.30	0.07	7.45	20.00	5, 10, 15, 20	/
000063:400:x	400	413	615	0.30	0.07	7.95	20.00	5, 10, 15, 20	5, 10
000063:450:x	450	463	690	0.30	0.07	8.94	20.00	5, 10, 15, 20	/
000063:500:x	500	513	765	0.30	0.07	9.93	20.00	5, 10, 15, 20	/



Master-PUR HX Trivolution

PU Transport hose & Suction Hose, highly abrasion resistant and vacuum proof, with reinforcement underneath the spiral, antistatic, microbe-resistant, hardly in-

Product Details

Standards

- Complies with DIN 26057
- according to TRGS 727 and ATEX 2014/34 EU
- Surface resistance $R_0 < 10^9$ Ohm
- measured according to DIN EN ISO 8031
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Construction / Material

- made of steel wire
- made of pure material
- made of specified material
- extra reinforced wear zones
- Addition of a non-migrating permanent antistatic agent
- Wall thickness between the spirals approx. 2.0 mm
- Spring steel
- Polyester Polyurethane

Material specification

- Surface resistance $R_0 < 10^9$ Ohm
- measured according to DIN EN ISO 8031
- Material is more abrasion resistant than comparable polyurethane according to DIN ISO 4649
- flame retardant according to DIN 4102 B1

Properties

Specifications of the product

- Complies with DIN 26057
- according to TRGS 727 and ATEX 2014/34 EU

Chemical Properties

- microbe-resistant
- good UV resistance
- halogen-free
- good resistance to oil
- good resistance to petrol
- good ozone resistance
- plasticiser-free

Physical properties

- permanently antistatic
-

Other

- high vacuum and peak pressure resistance, Configurable as a hose system with digital interface for compatibility with the AMPIUS® app

Operating Temperature

- -40 - 90 °C
- peaks to 125 °C
-

Application Areas

- Agriculture
- Automotive
- Plant & Mechanical Engineering
- Industry
- Semiconductor Industry
- Bulk & Construction
- Sea & rail transport
- Wood
- Chemistry

Suitable for the product



Combiflex PU Swivel Flange



Combiflex PU Cone Flange, screwable



Combiflex PU Fixed Flange



Combiflex PU Threaded Sockets



Hose Clamp with Bolts



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

Extended Article Number	Nominal Size (DN) mm	Outer-Ø ca. mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	beställbara Standardlängden m	Stock Lengths m
000158:32:x	32	42	80	4.85	0.94	0.66	20.00	2.5, 5, 7.5, 10, 15, 20	5, 7.50, 10
000158:38:x	38	48	95	4.39	0.94	0.78	20.00	2.5, 5, 7.5, 10, 15, 20	5, 7.50, 10, 15
000158:40:x	40	50	100	4.27	0.94	0.83	20.00	2.5, 5, 7.5, 10, 15, 20	5, 7.50, 10, 15, 20
000158:45:x	45	55	115	4.10	0.94	0.92	20.00	2.5, 5, 7.5, 10, 15, 20	5, 7.50, 10, 15
000158:51:x	51	61	125	4.00	0.94	1.04	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15, 20
000158:55:x	55	65	140	3.75	0.89	1.10	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15
000158:60:x	60	70	150	3.60	0.89	1.20	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15, 20
000158:65:x	65	75	165	3.30	0.89	1.29	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15
000158:70:x	70	80	175	3.15	0.89	1.38	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15
000158:76:x	76	87	190	2.92	0.89	1.50	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15
000158:80:x	80	93	200	2.77	0.89	1.93	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15
000158:90:x	90	103	225	2.40	0.89	2.16	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15
000158:100:x	100	113	238	2.15	0.88	2.53	20.00	2.5, 5, 7.5, 10, 15, 20	/
000158:102:x	102	115	250	2.10	0.87	2.60	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15, 20
000158:110:x	110	124	275	1.95	0.87	2.82	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10
000158:115:x	115	129	290	1.80	0.87	2.94	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10
000158:120:x	120	134	300	1.65	0.87	3.07	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10
000158:125:x	125	138	311	1.65	0.87	3.34	20.00	2.5, 5, 7.5, 10, 15, 20	/
000158:127:x	127	140	315	1.65	0.87	3.44	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15, 20
000158:130:x	130	143	325	1.65	0.84	3.54	20.00	2.5, 5, 7.5, 10, 15, 20	/
000158:140:x	140	153	350	1.50	0.83	3.81	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10
000158:150:x	150	165	434	1.50	0.82	4.08	20.00	2.5, 5, 7.5, 10, 15, 20	/
000158:152:x	152	167	450	1.50	0.82	4.13	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10, 15, 20
000158:160:x	160	175	500	1.35	0.81	4.81	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10
000158:170:x	170	185	600	1.20	0.80	5.10	20.00	2.5, 5, 7.5, 10, 15, 20	/
000158:175:x	175	190	650	1.20	0.79	5.25	20.00	2.5, 5, 7.5, 10, 15, 20	/
000158:180:x	180	195	700	1.20	0.77	5.40	20.00	2.5, 5, 7.5, 10, 15, 20	2.50, 5, 7.50, 10
000158:200:x	200	217	918	1.07	0.68	6.30	15.00	2.5, 5, 7.5, 10, 15	/
000158:203:x	203	220	950	1.05	0.66	6.43	15.00	2.5, 5, 7.5, 10, 15	2.50, 5, 7.50, 10, 15
000158:225:x	225	241	1150	0.90	0.58	7.11	10.00	2.5, 5, 7.5, 10	2.50, 5, 7.50, 10
000158:250:x	250	267	1300	0.90	0.51	7.91	10.00	2.5, 5, 7.5, 10	2.50, 5, 7.50, 10
000158:254:x	254	271	1325	0.88	0.50	8.04	10.00	2.5, 5, 7.5, 10	/
000158:275:x	275	292	1450	0.75	0.47	8.68	10.00	2.5, 5, 7.5, 10	/
000158:300:x	300	317	1600	0.60	0.42	9.45	10.00	2.5, 5, 7.5, 10	2.50, 5, 7.50, 10

Hoses for wood drying

Water must be removed from the wood within a short period of time in order to prevent destruction through shrinkage, decay or rot. It is therefore necessary to bring the wood into a state of moisture similar to that in which it will later be used.

Controlled drying processes are used to dry wood. In drying systems, the ambient air absorbs the moisture from the wood in the form of water vapour. The warm, moist air is constantly extracted.

Extraction and blower hoses from Masterflex made of neoprene-coated glass fibre are an environmentally friendly alternative to PVC hoses and are suitable for use in all drying systems.

Neoprene-coated glass fabrics are known for their excellent heat resistance and insulating properties. In wood drying plants, where high temperatures are used to dry the wood, these hoses help to efficiently transport and insulate the heat within the system, minimising heat loss and improving the energy efficiency of the plant.

The flexibility and robustness of the neoprene-coated glass fabric hoses enable precise air routing even under extreme conditions.

Neoprene also offers good resistance to many chemicals and moisture. In wood drying systems where moisture and chemical exposure can play a role, these hoses protect the system from damage and corrosion, extending the life of the system and reducing maintenance costs. The hoses themselves are characterised by an extremely long lifespan and therefore offer the user long production cycles without long downtimes.

The combination of glass fabric and neoprene gives these hoses high mechanical strength and flexibility. They are able to withstand mechanical stresses, vibrations and movements within the drying system without losing their shape or function. They can be installed quickly and easily in any installation situation. These properties contribute to the reliable and long-lasting use of the hoses.

For use on wood drying systems we recommend:

- **Master-NEO 1**



APPLICATION: EXTRACTION OF WARM AND HUMID AIR
MEDIUM: AIR





Master-NEO 1

Medium and high temperature hose for temperatures up to +135 °C

Product Details

Construction / Material

- single layer executed
- Coating of neoprene
- single layer executed
- Coating of neoprene
- designed as cord
- Glass fibre yarn
- glass fabric

Properties

Chemical Properties

- good resistance to chemicals

Mechanical properties

- kink-proof

Operating Temperature

- -35 - 135 °C
- short-term -55 °C to 150 °C

Application Areas

- Automotive
- Plant & Mechanical Engineering
- Industry
- Aerospace technology
- Ventilation & air-conditioning
- Bulk & Construction
- Sea & rail transport
- Wood
- Chemistry
- Plastics
- Conveying
- lifting & feeding technology
- Printing & Paper
- Vehicle construction
- Metal & Toolmaking

Suitable for the product



Hose connector



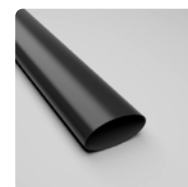
Hose Reducer, symmetrical



Hose Clamp with Worm-Gear



Hose Clamp with Worm-Gear, Steel quality W4, stainless



Heat Shrink Cuff

Extended Article Number	Nominal Size (DN) mm	Bending radius mm	Operating pressure bar	Negative pressure bar	Weight kg/m	Max. Production length m	beställbare Standardlängen m	Stock Lengths m
000479:13:x	13	8	1.70	0.51	0.10	4.00	4	/
000479:19:x	19	8	1.60	0.50	0.11	4.00	4	4
000479:22:x	22	8	1.60	0.50	0.12	4.00	4	4
000479:25:x	25	8	1.60	0.50	0.12	4.00	4	4
000479:30:x	30	10	1.40	0.49	0.14	4.00	4	/
000479:32:x	32	11	1.37	0.49	0.15	4.00	4	4
000479:35:x	35	11	1.35	0.49	0.15	4.00	4	/
000479:38:x	38	12	1.30	0.49	0.17	4.00	4	4
000479:41:x	41	13	1.30	0.47	0.20	4.00	4	/
000479:42:x	42	13	1.20	0.47	0.20	4.00	4	/
000479:44:x	44	14	1.20	0.45	0.21	4.00	4	4
000479:45:x	45	14	1.20	0.45	0.21	4.00	4	/
000479:51:x	51	16	1.20	0.42	0.25	4.00	4	4
000479:55:x	55	18	1.10	0.41	0.27	4.00	4	4
000479:57:x	57	18	1.10	0.40	0.28	4.00	4	4
000479:60:x	60	20	1.10	0.39	0.30	4.00	4	4
000479:63:x	63	22	1.10	0.38	0.32	4.00	4	4
000479:64:x	64	22	1.10	0.38	0.32	4.00	4	/
000479:65:x	65	22	1.10	0.37	0.34	4.00	4	/
000479:70:x	70	24	1.10	0.35	0.36	4.00	4	4
000479:76:x	76	27	1.10	0.33	0.41	4.00	4	4
000479:80:x	80	28	1.00	0.31	0.44	4.00	4	4
000479:83:x	83	28	1.00	0.30	0.46	4.00	4	4
000479:90:x	90	29	1.00	0.29	0.49	4.00	4	4
000479:91:x	91	29	1.00	0.29	0.49	4.00	4	/
000479:95:x	95	32	0.90	0.28	0.56	4.00	4	4
000479:102:x	102	35	0.90	0.26	0.65	4.00	4	4
000479:108:x	108	38	0.90	0.24	0.68	4.00	4	/
000479:110:x	110	38	0.90	0.24	0.69	4.00	4	/
000479:114:x	114	40	0.90	0.22	0.71	4.00	4	4
000479:120:x	120	43	0.80	0.20	0.76	4.00	4	/
000479:127:x	127	46	0.80	0.17	0.80	4.00	4	4
000479:130:x	130	47	0.80	0.17	0.82	4.00	4	/
000479:140:x	140	48	0.70	0.15	0.90	4.00	4	4
000479:152:x	152	51	0.70	0.14	0.99	4.00	4	4
000479:160:x	160	53	0.60	0.13	1.05	4.00	4	4
000479:165:x	165	55	0.60	0.12	1.08	4.00	4	/
000479:180:x	180	60	0.60	0.11	1.19	4.00	4	/
000479:203:x	203	68	0.50	0.07	1.33	4.00	4	4
000479:229:x	229	84	0.40	0.06	1.48	4.00	4	/
000479:254:x	254	102	0.40	0.04	1.68	4.00	4	4
000479:305:x	305	123	0.20	0.02	2.05	4.00	4	4



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