



Hoses for the Plastics Industry

Hoses & Connectors for the
Entire Production Process

 **MASTERFLEX**
Connecting Values

A MASTERFLEX GROUP COMPANY



Masterflex – Your partner for high-tech hose systems

The field of plastics processing is a multifaceted process with the end-results being form-moulded components, semi-finished products, fibres, films or foils. During processing, granules and powders are often conveyed over long distances, placing increased demands on hoses and pipelines. Masterflex products leave nothing else to be desired when it comes to fulfilling the greatest demands and most stringent requirements for quality, abrasion-resistance, flexibility, durability and reliability.

Here, we provide you with an overview of our products, which are specifically designed for conquering the daily challenges in the world of plastics processing: from highly abrasion-resistant hoses for granule transport, temperature-proof hoses for granule drying, Master-PROTECT Pipe-Bends, electrically heated hoses for the transport of liquid plastics and adhesives, right through to all of the corresponding fittings and connectors. Here you can find everything you need for achieving greater success throughout the entire production process.

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Hoses for the Plastics Industry / Silo Filling

Plastic is delivered in the form of granules. These plastic granules are transported pneumatically into large silo containers via long hoses before being forwarded onto the distribution stations (hose stations). Once there, they are distributed to the granule drying stations.



Master-PROTECT Pipes & Pipe-Bends in silo applications

Silo Filling

The pneumatic transport places great demands on the durability of the hoses applied. The transport medium is conveyed through the hoses using high-pressure or vacuum from the trucks and into the silos. Signs of wear and tear often appear, as the impact of the plastic particles on the inner hose wall has a hugely abrasive effect.

Further along in the process, the plastic granules are sent from the silos to the distribution stations. Long transport distances are often bridged using pipelines. For shorter distances, such as between the pipes and the distribution stations themselves, hoses, connectors and pipe-bends are applied. Once at the distribution station, the raw material is then forwarded on to the granule drying process.

The highly abrasive suction & transport hoses from Masterflex are specifically designed for application in these areas. The hoses consist of polyester-polyurethane, which in comparison to the otherwise conventional and widely-applied polyether-polyurethane or PVC, offers greatly improved durability and service life. This is highlighted even more when transporting granules with a high GFRP ratio (glass-fibre reinforced plastic).

The transparent hose wall guarantees a constant view of the media being transported. Thanks to their unique and innovative design, the hoses are extremely flexible and can therefore be installed quickly and easily, no matter how tight the installation space.

Excellent flow properties, unbeatable abrasion-resistance and extreme flexibility - these features and many more are what make Masterflex hoses the perfect choice for these applications. Have a look at our products in the following pages to find out more.



Delivery of plastic granules & filling of silos using pneumatic conveyors

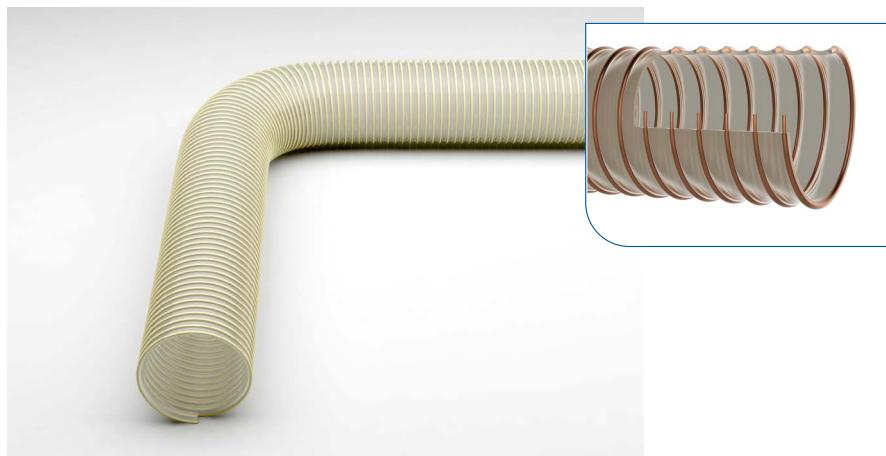


Distribution station (hose station), forwarding of raw materials for granule drying

Hoses for the Plastics Industry - Silo Filling

Master-PUR HX Trivolution

PU Transport hose & Suction Hose, highly abrasion resistant and vacuum proof, with reinforcement underneath the spiral, antistatic, surface resistance < 10⁹ Ohm, microbe-resistant, hardly inflammable acc. to DIN 4102 B1



Material

- wall: pure polyester polyurethane
(acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)
- wall thickness between spirals approx. 2.0 mm, depending on DN
- spiral: spring steel wire

Applications

- For greater requirements on 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, etc.

Temperature Range

- -40°C to +90°C
- peaks to +125°C

Properties

- hardly inflammable acc. to DIN 4102 B1
- permanently antistatic, surface resistance < 10⁹ Ohm acc. to DIN EN ISO 8031
- acc. to TRGS 727 and ATEX 2014/34 EU
- microbe-resistant
- extremely abrasion resistant via specific reinforcements underneath the spiral
- good resistance to chemicals, oil and fuel
- flexible
- halogen and plasticizer-free
- smooth inner lining, optimum flow characteristics
- high vacuum and apex pressure resistance
- highly durable, long service lives
- generally good UV and ozone

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
38	4,39	0,94	95	48	0,78	000158:38:x	20
40	4,27	0,94	100	50	0,83	000158:40:x	20
51	4	0,94	125	61	1,04	000158:51:x	20
55	3,75	0,89	140	65	1,1	000158:55:x	20
60	3,6	0,89	150	70	1,2	000158:60:x	20
65	3,3	0,89	165	75	1,29	000158:65:x	20
70	3,15	0,89	175	80	1,38	000158:70:x	20
76	2,92	0,89	190	87	1,5	000158:76:x	20
80	2,77	0,89	200	93	1,93	000158:80:x	20
90	2,4	0,89	225	103	2,16	000158:90:x	20
102	2,1	0,87	250	115	2,6	000158:102:x	20
115	1,8	0,87	290	129	2,94	000158:115:x	20
120	1,65	0,87	300	134	3,07	000158:120:x	20
127	1,65	0,87	315	140	3,44	000158:127:x	20
152	1,5	0,82	450	167	4,13	000158:152:x	10m/15m

All data refers to a medium and ambient temperature of +20 °C.* Refers to the inner hose lining. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



Hose Clamp with Bolts



Combiflex PU Swivel Flange



PU Hose Sleeve



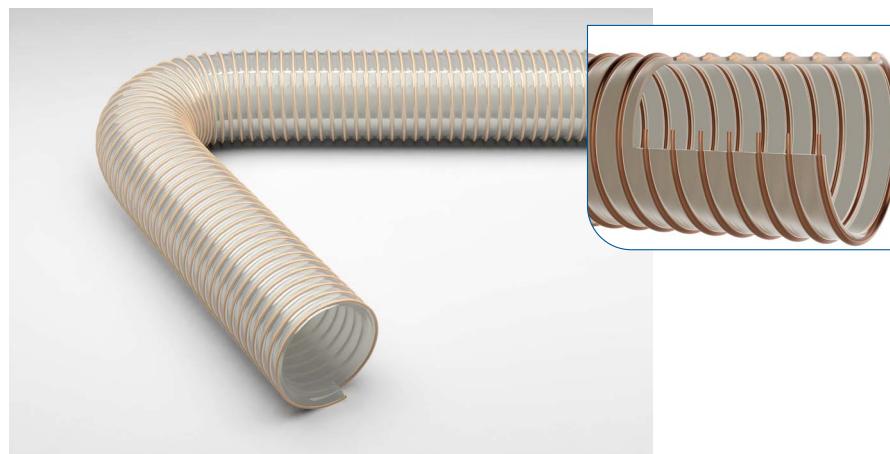
Clamp Collars, screwed

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Silo Filling

Master-PUR Performance

**PU suction hose & transport hose,
extremely abrasion-resistant &
vacuum-proof, seamless smooth
inner lining, antistatic and
microbe-resistant,
surface resistance < 10⁹ Ohm**



Material

- spiral: spring steel wire
- wall: pure polyurethane
- wall thickness min. 2.5 mm
- inner lining: application-optimised polyurethane
60° Shore A

Applications

- Transport hose for problematic media, e.g. sand, gravel, grain, granules
- Transport hose for handling and conveying plants
- Everywhere where easy-to-clean surfaces are required
- Suction and transport hose for extremely abrasive solid, liquid and gaseous media
- Transport hose for feeding and cleaning of glass works, mineral processing plants, steelworks, quarries, shipyards and docks, cement works, flat roof graveling
- Other conveyer and loading plants

Properties

- flexible
- permanently antistatic, surface resistance < 10⁹ Ohm acc. to DIN EN ISO 8031
- acc. to TRGS 727 and ATEX 2014/34 EU
- microbe-resistant
- good resistance to chemicals, oil and fuel
- completely smooth internal lining, therefore ideal flow characteristics
- high tensile strength
- excellent vacuum-resistance and good pressure-resistance
- halogen and plasticizer-free
- generally good UV and ozone resistance

Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
38	4,35	0,94	130	50	0,8	000210:38:x	10
40	4,25	0,94	135	52	0,8	000210:40:x	10
45	4,12	0,94	155	57	1	000210:45:x	10
51	4	0,94	170	66	1,2	000210:51:x	10
55	3,8	0,94	175	72	1,3	000210:55:x	10
60	3,7	0,94	185	77	1,5	000210:60:x	10
65	3,5	0,94	190	82	1,6	000210:65:x	10
76	3,15	0,94	250	93	1,9	000210:76:x	10
80	2,9	0,94	270	97	2,1	000210:80:x	10
90	2,7	0,94	285	107	2,4	000210:90:x	10
102	2,5	0,94	300	119	2,6	000210:102:x	10
115	2,3	0,94	325	132	3	000210:115:x	10
127	2	0,94	350	144	3,3	000210:127:x	10
152	1,5	0,94	400	169	3,7	000210:152:x	10

All data refers to a medium and ambient temperature of +20 °C.* Refers to the inner hose lining. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



Hose Clamp
with Bolts



PU Hose Sleeve



Clamp Collars,
screwed



Combiflex PU Swivel Flange
Inline & Performance

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Silo Filling

Master-PUR Inline

PU Suction hose & Transport Hose, extremely abrasion resistant, vacuum proof, seamless, very smooth inner lining, antistatic, surface resistance < 10⁹ Ohm, microbe-resistant



Material

spiral: spring steel wire
wall: pure polyurethane
Inline: application-optimised polyurethane, 4 mm 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
- extremely abrasion-resistant, extra strong PU Inline
- generally good UV and ozone resistance
- good resistance to chemicals, oil and fuel
- free of halogens and plasticizers
- high tensile strength
- completely smooth internal lining, therefore ideal flow characteristics
- flexible
- microbe-resistant
- antistatic, surface resistance < 10⁹ Ohm acc. to DIN EN iso 8031

Temperature Range

- 40°C to +90°C
- peaks to +125°C

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
38	4,65	0,94	150	56	1,72	000195:38:x	10
40	4,5	0,94	160	58	1,79	000195:40:x	10
50	4,125	0,94	200	69	1,61	000195:50:x	10
51	4,125	0,94	200	70	1,64	000195:51:x	10
65	3,9	0,94	300	85	2,02	000195:65:x	10
75	3,75	0,94	400	96	3,4	000195:75:x	10
76	3,75	0,94	400	97	3,44	000195:76:x	10
80	3,375	0,94	410	99	2,69	000195:80:x	10
100	3	0,94	430	122	4,31	000195:100:x	10
102	3	0,94	430	122	4,39	000195:102:x	10
115	2,6	0,94	440	136	4,9	000195:115:x	10
125	2,4	0,94	450	146	5,6	000195:125:x	10
127	2,4	0,94	450	148	5,69	000195:127:x	10
150	1,95	0,94	600	175	7,3	000195:150:x	10
152	1,95	0,94	600	175	7,3	000195:152:x	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. ** Please replace "x" with your desired hose length.

Possible Connections:



Hose Clamp with Bolts



PU Hose Sleeve



Clamp Collars, screwed



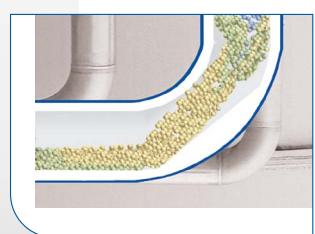
CombiFlex PU Swivel Flange Inline & Performance

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Silo Filling

Master-PROTECT Pipe-Bend

PU-lined Pipe-Bend



Material

lining: polyurethane
bend: DIN 2448 St 37, primed
flange: R St 37, primed

Applications

- Pneumatic conveying plants

Properties

- extremely abrasion-resistant
- pressure level PN 6 and PN 10/16
- significantly lower pressure loss than with deflection / impact absorbers
- lower risk of blockages via uniform concentration distribution and a more constant speed of transported goods
- much greater wear resistance than steel pipe bends
- reduced operating costs via longer maintenance intervals
- no displacement of transport media

Temperature Range

- -40°C to +80°C
- peaks to +110°C

DN	d in mm	PN	A mm	Adapter Outer Ø	Hole Circle	No. Holes	Article No.
50	54	10/16	121	165	125	4	004108
65	70	6	133	160	130	4	004110
65	70	10/16	140	185	145	4	004111
80	82	6	157	190	150	4	004112
80	82	10/16	165	200	160	8	004113
100	107	6	198	210	170	4	004118
100	107	10/16	205	220	180	8	004119
125	131	10/16	246	250	210	8	004123
150	159	10/16	284	285	240	8	004124
200	207	6	360	320	280	8	004126

All data refers to a media and ambient temperature of +20 °C. Order-specific production in the above listed sizes, lengths and pressure steps. Available on request in other DN sizes and in stainless steel. Subject to technical changes and colour deviations.

Hoses for the Plastics Industry / Granule Drying



Suction & transport hoses used for filling granule dryers along with temperature-proof hoses for transporting the air for the dryer itself



In the field of plastics processing, granule drying plays an integral role. Plastic absorbs moisture and humidity from the air around it. This can lead to drastic deficiencies in the end product. That's why the drying of the granules is such an important phase of the process - especially when having to allow for the recommended residual moisture tolerances of the raw material manufacturers

Granule Drying

Before the plastic granules can be melted later on in the injection-moulding and extrusion process, the moisture and humidity must first be removed. This pre-drying significantly improves the processing properties of the plastic granules. The air drying is the most widely used method in the plastics industry.

Dry, warm air flows through the granules, removing any remaining moisture and forwarding this to a drying agent.

Masterflex's temperature-resistant hoses are especially suitable for the suction and extraction of warm air during the drying process. These specialist hoses are designed to withstand temperatures of up to +250 °C.

The hoses are made from single or multi-layered strips of vulcanised fabric coiled together in overlap and further equipped with an inner steel helix, which is either hidden or bare. The hoses feature a smooth inner lining, provide good pressure-resistance and are extremely flexible, making installation quick and easy no matter where they are applied.

Hoses for the Plastics Industry - Granule Drying

Master-NEO 1

**Medium & High
Temperature Hose for
temperatures up to +135 °C**



Material

spiral: spring steel wire
cord: fibreglass fabric
wall: neoprene-coated glass fabric

Applications

- Hot air hose for granulate dryer
- Plastic processing industry
- Conveyance of air and gaseous media with high nominal and ambient temperatures

Properties

- light
- smallest bending radius
- good chemical resistance
- mostly smooth inner lining
- highly flexible
- symmetrical fold behaviour
- approved acc.to DIN 75200 and FMVSS 302 for application in transit vehicles
- bend-proof
- fixed vulcanised wall and steel filament

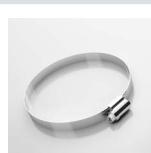
Temperature Range

- 35°C to +135°C
- peaks -55°C to +150°C*

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Weight c. kg/m	Article No. **	max. Production Length
38	0,49	490	12	0,17	000479:38:x	4
44	0,45	451	14	0,21	000479:44:x	4
51	0,42	422	16	0,25	000479:51:x	4
57	0,4	402	18	0,28	000479:57:x	4
60	0,39	392	20	0,3	000479:60:x	4
63	0,38	382	22	0,32	000479:63:x	4
65	0,37	373	22	0,34	000479:65:x	4
70	0,35	353	24	0,36	000479:70:x	4
76	0,33	333	27	0,41	000479:76:x	4
80	0,31	314	28	0,44	000479:80:x	4
83	0,3	304	28	0,46	000479:83:x	4
90	0,29	294	29	0,49	000479:90:x	4
95	0,28	275	32	0,56	000479:95:x	4
102	0,26	255	35	0,65	000479:102:x	4
108	0,24	235	38	0,68	000479:108:x	4
114	0,22	216	40	0,71	000479:114:x	4
115	0,22	216	40	0,72	000479:115:x	4
120	0,2	196	43	0,76	000479:120:x	4
127	0,17	167	46	0,8	000479:127:x	4
140	0,15	147	48	0,9	000479:140:x	4m

All data refers to a media and ambient temperature of +20 °C. * refers to the inside of the hose. Available from stock in lengths from 4m and the above listed sizes. Available on request in other lengths, sizes, with spiral-free sleeves or plastic spirals. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



Hose Clamp
with Worm-Gear



Hose Connector



Heat-Shrink Cuff



Hose Reducer, symmetrical

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Granule Drying

Master-NEO 2

**Medium & High Temperature Hose
for temperatures up to +135 °C,
double-layered**



Material

spiral: spring steel wire
cord: fibreglass fabric
wall: neoprene-coated glass fabric, double-layered

Applications

- Chemicals industry
- Vehicle manufacturing
- Aircraft manufacturing
- Conveyance of air and gaseous media with high nominal & ambient temperatures with greater mechanical requirements
- Hot air hose for granulate dryer
- Machine and engine manufacturing
- Shipbuilding
- Plastic processing industry
- Waste incineration plants

Properties

- light
- smallest bending radii
- good chemical resistance
- mostly smooth inner lining
- highly flexible
- symmetrical fold behaviour
- bend-proof
- fixed vulcanised wall and steel filament

Temperature Range

- -35°C to +135°C
- peaks -55°C to +150°C*

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Weight c. kg/m	Article No.**	max. Production Length
38	2,6	0,59	18	0,31	000485:38:x	4
44	2,6	0,55	21	0,34	000485:44:x	4
51	2,6	0,51	24	0,36	000485:51:x	4
57	2,5	0,48	28	0,43	000485:57:x	4
60	2,4	0,47	31	0,47	000485:60:x	4
63	2,4	0,47	31	0,49	000485:63:x	4
65	2,4	0,47	31	0,5	000485:65:x	4
70	2,3	0,43	35	0,53	000485:70:x	4
76	2,2	0,42	38	0,58	000485:76:x	4
80	2,1	0,41	40	0,62	000485:80:x	4
83	2,1	0,4	42	0,64	000485:83:x	4
91	2	0,39	44	0,7	000485:91:x	4
95	1,9	0,36	48	0,73	000485:95:x	4
102	1,9	0,34	52	0,77	000485:102:x	4
108	1,7	0,3	55	0,83	000485:108:x	4
114	1,6	0,28	57	0,89	000485:114:x	4
120	1,6	0,28	61	0,94	000485:120:x	4
127	1,4	0,25	64	1	000485:127:x	4
140	1,3	0,19	70	1,11	000485:140:x	4

All data refers to a media and ambient temperature of +20 °C. * refers to the inside of the hose. Available from stock in lengths from 4m and the above listed sizes. Available on request in other lengths, sizes, with spiral-free sleeves or plastic spirals. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



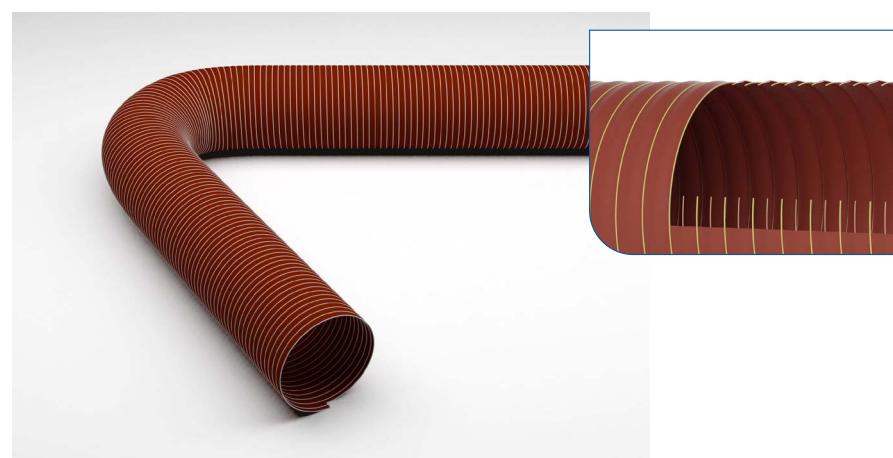
Hose Clamp
with Worm-Gear

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Granule Drying

Master-SIL 1

Medium & High Temperature Hose
for temperatures up to +250 °C



Material

spiral: spring steel wire
cord: fibreglass fabric
wall: silicone-coated glass-fibre fabric

Applications

- Chemicals industry
- Vehicle manufacturing
- Aircraft manufacturing
- Hot air hose for granulate dryer
- Machine and engine manufacturing
- Shipbuilding
- Plastic processing industry
- Waste incineration plants
- Conveyance of air and gaseous media with high nominal & ambient temperatures

Properties

- light
- smallest bending radius
- good chemical resistance
- mostly smooth inner lining
- highly flexible
- symmetrical fold behaviour
- bend-proof
- fixed vulcanised wall and steel filament

Temperature Range

- -70°C to +250°C
- peaks -85°C to +300°C

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Weight c. kg/m	Article No.**	max. Production Length
38	1,3	0,49	12	0,17	000493:38:x	4
44	1,2	0,45	14	0,21	000493:44:x	4
51	1,2	0,42	16	0,25	000493:51:x	4
57	1,1	0,4	18	0,28	000493:57:x	4
60	1,1	0,39	20	0,3	000493:60:x	4
63	1,1	0,38	22	0,32	000493:63:x	4
65	1,1	0,37	22	0,34	000493:65:x	4
70	1,1	0,35	24	0,36	000493:70:x	4
76	1,1	0,33	27	0,41	000493:76:x	4
80	1	0,31	28	0,44	000493:80:x	4
83	1	0,3	28	0,46	000493:83:x	4
90	1	0,29	29	0,49	000493:90:x	4
95	0,9	0,28	32	0,56	000493:95:x	4
102	0,9	0,26	35	0,65	000493:102:x	4
108	0,9	0,24	38	0,68	000493:108:x	4
114	0,9	0,22	40	0,71	000493:114:x	4
120	0,8	0,2	43	0,76	000493:120:x	4
127	0,8	0,17	46	0,8	000493:127:x	4
140	0,7	0,15	48	0,9	000493:140:x	4

All data refers to a media and ambient temperature of +20 °C. * refers to the inside of the hose. Available from stock in lengths from 4m and the above listed sizes. Available on request in other lengths, sizes, with spiral-free sleeves or plastic spirals. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



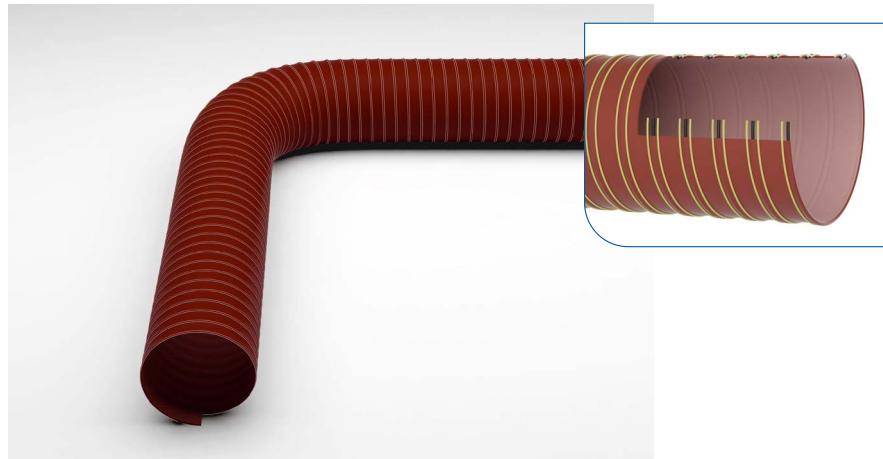
Hose Clamp
with Worm-Gear

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Granule Drying

Master-SIL 2

**Medium & High Temperature Hose
for temperatures up to +250 °C,
double-layered**



Material

spiral: spring steel wire
cord: fibreglass fabric
wall: silicone-coated glass-fibre fabric,
double-layered

Applications

- Chemicals industry
- Vehicle manufacturing
- Aircraft manufacturing
- Conveyance of air and gaseous media with high nominal & ambient temperatures with greater mechanical requirements
- Hot air hose for granulate dryer
- Machine and engine manufacturing
- Plastic processing industry
- Waste incineration plants

Properties

- light
- smallest bending radius
- good chemical resistance
- mostly smooth inner lining
- highly flexible
- symmetrical fold behaviour
- bend-proof
- fixed vulcanised wall and steel filament

Temperature Range

- -70°C to +250°C
- peaks -85°C to +300°C

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Weight c. kg/m	Article No.**	max. Production Length
38	2,6	0,59	18	0,31	000495:38:x	4
44	2,6	0,55	21	0,34	000495:44:x	4
51	2,6	0,51	24	0,36	000495:51:x	4
57	2,5	0,48	28	0,43	000495:57:x	4
60	2,4	0,47	31	0,47	000495:60:x	4
63	2,4	0,47	31	0,49	000495:63:x	4
65	2,4	0,47	31	0,5	000495:65:x	4
70	2,3	0,43	35	0,53	000495:70:x	4
76	2,2	0,42	38	0,58	000495:76:x	4
80	2,1	0,41	40	0,62	000495:80:x	4
83	2,1	0,4	42	0,64	000495:83:x	4
90	2	0,39	44	0,69	000495:90:x	4
95	1,9	0,36	48	0,73	000495:95:x	4
102	1,9	0,34	52	0,77	000495:102:x	4
108	1,7	0,3	55	0,83	000495:108:x	4
114	1,6	0,28	57	0,89	000495:114:x	4
120	1,6	0,28	61	0,94	000495:120:x	4
127	1,4	0,25	64	1	000495:127:x	4
140	1,3	0,19	70	1,11	000495:140:x	4

All data refers to a media and ambient temperature of +20 °C. * refers to the inside of the hose. Available from stock in lengths from 4m and the above listed sizes. Available on request in other lengths, sizes, with spiral-free sleeves or plastic spirals. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



Hose Clamp
with Worm-Gear

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry / Production Process

Once the drying process is complete, the plastic granules are then processed. Extrusion, Co-extrusion, Injection-Moulding or Bubble-Packaging manufacturing are typical production process in the plastics industry

Production Process

During the course of the production process, many different types of hoses are applied. Highly abrasion-resistant suction & transport hoses are used for the transport from the granule dryer to the production lines.

The next stage is the melting of the granules themselves. The liquidised plastic is then sent to an extrusion tool, for example. This part of the process is made easier through the use of electrically heated hoses, such as the high-tech **templine®** heated hose from Masterflex. Thanks to its innovative use of integrated heat conductors, this patented Masterflex hose guarantees a constant and evenly distributed temperature. Its unique construction design also ensures that, even with the most extreme bending and torsional distortions, the heat conductors never leave contact with the hose surface and therefore prevent any overheating or cooling of the liquid plastic. High pressure loads are no problem for the Masterflex **templine®** heated hoses.

Everywhere where heat is created for a melting process, hot air is the direct result. Temperature-resistant hoses from Masterflex always provide the best answer for applications in extractor units. Air with temperatures of up to +250 °C can be extracted with ease.

3 wishes at once!

The suction & transport hoses from Masterflex are usually microbe-resistant, permanently antistatic acc. to the TRBS 2153 (ATEX) standard, as well as being hardly inflammable acc. to DIN 4102 B1. The combination of these three features, however, offers a much wider spectrum of possible applications. Choosing the right product and dealing with spiralling storage costs just got much easier.

Masterflex hoses provide real added value

- and at no extra cost!



Electrically heated hoses applied in injection-moulding.
The liquid plastic must be kept at a constant temperature.



Temperature-proof hoses used for extracting hot air
for the manufacturing of bubble packaging



Hoses for the Plastics Industry - Production Process

Master-PUR L Trivolution

**PU Suction hose & Transport Hose,
extremely flexible, light duty,
antistatic, surface resistance < 10⁹ Ohm,
microbe-resistant, hardly
inflammable acc. to DIN 4102 B1**



Material

- 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
- spiral: spring steel wire

Applications

- Transport of fine-grained particles, e.g. dust & powder
- Suction/extraction of paper and textile fibres
- Suction & transport hose for abrasive solids, liquids & gases
- Protective hose against mechanical wear
- Oil mist extraction/suction

Temperature Range

- -40°C to +90°C
- peaks to +125°C

Properties

- hardly inflammable acc. to DIN 4102 B1
- permanently antistatic, surface resistance < 10⁹ Ohm acc. to DIN EN ISO 8031
- acc. to TRGS 727 and ATEX 2014/34 EU
- microbe-resistant
- good resistance to chemicals, oil and fuel
- smallest bending radius
- optimum flow characteristics
- highly abrasion-resistant
- light, very good flexibility
- halogen and plasticizer-free
- high tensile strength
- generally good UV and ozone resistance

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
32	2,52	0,71	40	40	0,35	000007:32:x	25
38	2,1	0,66	46	46	0,39	000007:38:x	25
40	2,1	0,66	48	48	0,4	000007:40:x	25
45	1,84	0,59	53	53	0,42	000007:45:x	25
51	1,68	0,52	58	58	0,45	000007:51:x	25
55	1,54	0,44	63	63	0,51	000007:55:x	25
60	1,4	0,44	68	68	0,53	000007:60:x	25
65	1,26	0,37	73	73	0,64	000007:65:x	25
70	1,12	0,37	78	78	0,68	000007:70:x	25
76	1,12	0,29	84	84	0,72	000007:76:x	25
80	0,98	0,29	88	88	0,76	000007:80:x	25
102	0,84	0,22	110	110	0,95	000007:102:x	25
120	0,7	0,22	129	129	1,12	000007:120:x	25
127	0,7	0,22	135	135	1,18	000007:127:x	25
152	0,56	0,15	161	161	1,48	000007:152:x	25

All data refers to a medium and ambient temperature of +20 °C.* Refers to the inner hose lining. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



Combiflex PU-Cuff EL



Master-Grip Quick-Fix Clamp



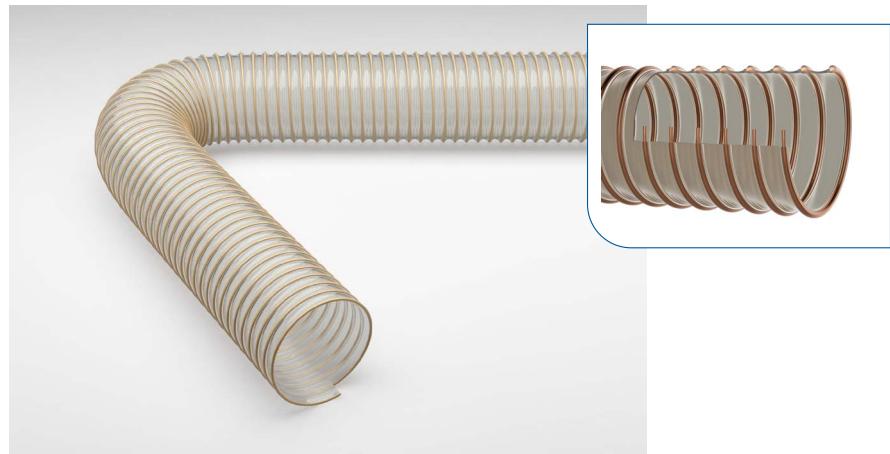
Master-Grip Hose Clamp, screwable

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Production Process

Master-PUR H Trivolution

**PU Suction hose & Transport Hose,
very flexible, antistatic, surface
resistance < 10⁹ Ohm, microbe-
resistant, hardly inflammable acc. to
DIN 4102 B1**



Material

- 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
- spiral: spring steel wire

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

Temperature Range

- -40°C to +90°C
- peaks to +125°C

Properties

- hardly inflammable acc. to DIN 4102 B1
- permanently antistatic, surface resistance < 10⁹ Ohm acc. to DIN EN iso 8031
- acc to. TRGS 727 and ATEX 2014/34 EU
- microbe-resistant
- highly abrasion-resistant
- good resistance to chemicals, oil and fuel
- small bending radius
- optimum flow characteristics
- high tensile strength
- medium duty
- good flexibility
- free of halogens and plasticizers
- generally good UV and ozone resistance
- increased pressure and vacuum resistance

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
32	3,25	0,92	60	41	0,39	000063:32:x	25
38	3,12	0,82	69	47	0,46	000063:38:x	25
40	3	0,82	72	49	0,49	000063:40:x	25
45	2,95	0,81	80	55	0,55	000063:45:x	25
51	2,9	0,82	87	61	0,71	000063:51:x	25
55	2,75	0,76	95	65	0,77	000063:55:x	25
60	2,55	0,74	102	70	0,84	000063:60:x	25
65	2,4	0,66	112	75	0,91	000063:65:x	25
70	2,25	0,66	117	80	0,97	000063:70:x	25
76	2	0,59	126	87	1,06	000063:76:x	25
80	2	0,59	132	91	1,11	000063:80:x	25
102	1,5	0,44	165	112	1,48	000063:102:x	25
120	1,3	0,31	194	131	1,75	000063:120:x	25
127	1,3	0,31	203	138	1,91	000063:127:x	25
152	1,05	0,26	242	163	2,29	000063:152:x	25

All data refers to a medium and ambient temperature of +20 °C.* Refers to the inner hose lining. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



Combiflex PU-Cuff EL



Master-Grip Quick-Fix Clamp



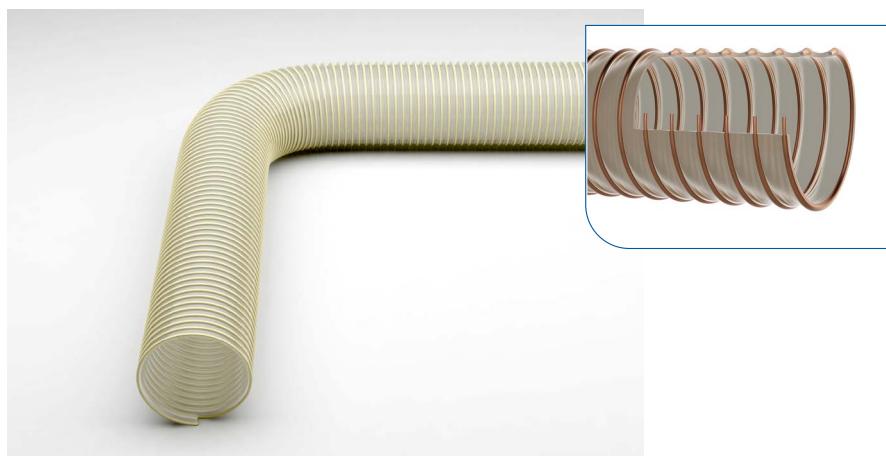
Master-Grip Hose Clamp, screwable

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Production Process

Master-PUR HX Trivolution

PU Transport hose & Suction Hose, highly abrasion resistant and vacuum proof, with reinforcement underneath the spiral, antistatic, surface resistance < 10⁹ Ohm, microbe-resistant, hardly inflammable acc. to DIN 4102 B1



Material

- wall: pure polyester polyurethane
(acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)
- wall thickness between spirals approx. 2.0 mm, depending on DN
- spiral: spring steel wire

Applications

- For increased requirements of abrasion resistance & 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, etc.

Temperature Range

- -40°C to +90°C
- peaks to +125°C

Properties

- hardly inflammable acc. to DIN 4102 B1
- permanently antistatic, surface resistance < 10⁹ Ohm acc. to DIN EN ISO 8031
- acc. to TRGS 727 and ATEX 2014/34 EU
- microbe-resistant
- extremely abrasion resistant via specific reinforcements underneath the spiral
- good resistance to chemicals, oil and fuel
- flexible
- halogen and plasticizer-free
- smooth inner lining, optimum flow characteristics
- high vacuum and apex pressure resistance
- highly durable, long service lives
- generally good UV and ozone

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
38	4,39	0,94	95	48	0,78	000158:38:x	20
40	4,27	0,94	100	50	0,83	000158:40:x	20
51	4	0,94	125	61	1,04	000158:51:x	20
55	3,75	0,89	140	65	1,1	000158:55:x	20
60	3,6	0,89	150	70	1,2	000158:60:x	20
65	3,3	0,89	165	75	1,29	000158:65:x	20
70	3,15	0,89	175	80	1,38	000158:70:x	20
76	2,92	0,89	190	87	1,5	000158:76:x	20
80	2,77	0,89	200	93	1,93	000158:80:x	20
90	2,4	0,89	225	103	2,16	000158:90:x	20
102	2,1	0,87	250	115	2,6	000158:102:x	20
115	1,8	0,87	290	129	2,94	000158:115:x	20
120	1,65	0,87	300	134	3,07	000158:120:x	20
127	1,65	0,87	315	140	3,44	000158:127:x	20
152	1,5	0,82	450	167	4,13	000158:152:x	20

All data refers to a medium and ambient temperature of +20 °C.* Refers to the inner hose lining. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

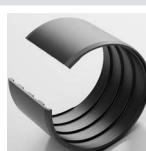
Possible Connections:



Hose Clamp with Bolts



Combiflex PU Swivel Flange



PU Hose Sleeve



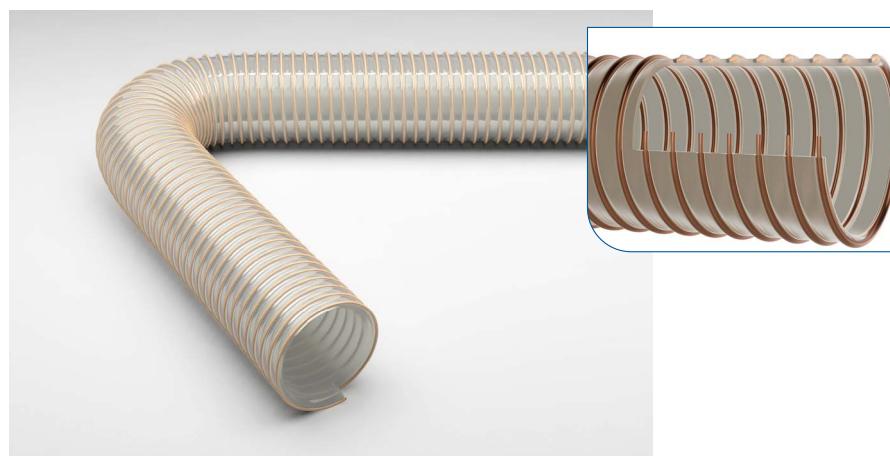
Clamp Collars, screwed

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Production Process

Master-PUR Performance

**PU suction hose & transport hose,
extremely abrasion-resistant &
vacuum-proof, seamless smooth
inner lining, antistatic and micro-
be-resistant,
surface resistance < 10⁹ Ohm**



Material

- spiral: spring steel wire
- wall: pure polyurethane
- wall thickness min. 2.5 mm
- inner lining: application-optimised polyurethane
60° Shore A

Applications

- Transport hose for problematic media, e.g. sand, gravel, grain, granules
- Transport hose for handling and conveying plants
- Everywhere where easy-to-clean surfaces are required
- Suction and transport hose for extremely abrasive solid, liquid and gaseous 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

- flexible
- permanently antistatic, surface resistance < 10⁹ Ohm acc to. DIN EN iso 8031
- acc to. TRGS 727 ans ATEX 2014/34 EU
- microbe-resistant
- good resistance to chemicals, oil and fuel
- completely smooth internal lining, therefore ideal flow characteristics
- high tensile strength
- excellent vacuum-resistance and good pressure-resistance
- halogen and plasticizer-free
- generally good UV and ozone resistance

Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	Op Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
38	4,35	0,94	130	50	0,8	000210:38:x	10
40	4,25	0,94	135	52	0,8	000210:40:x	10
45	4,12	0,94	155	57	1	000210:45:x	10
51	4	0,94	170	66	1,2	000210:51:x	10
55	3,8	0,94	175	72	1,3	000210:55:x	10
60	3,7	0,94	185	77	1,5	000210:60:x	10
65	3,5	0,94	190	82	1,6	000210:65:x	10
76	3,15	0,94	250	93	1,9	000210:76:x	10
80	2,9	0,94	270	97	2,1	000210:80:x	10
90	2,7	0,94	285	107	2,4	000210:90:x	10
102	2,5	0,94	300	119	2,6	000210:102:x	10
115	2,3	0,94	325	132	3	000210:115:x	10
127	2	0,94	350	144	3,3	000210:127:x	10
152	1,5	0,94	400	169	3,7	000210:152:x	10

All data refers to a medium and ambient temperature of +20 °C.* Refers to the inner hose lining. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



Hose Clamp
with Bolts



PU Hose Sleeve



Clamp Collars,
screwed



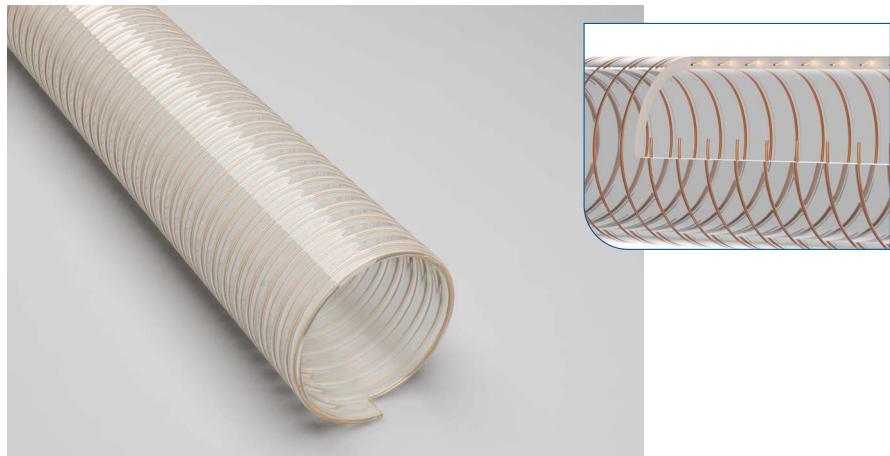
Combiflex PU Swivel Flange
Inline & Performance

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Production Process

Polderflex PUR

**PU Suction & Transport Hose,
extremely pressure and vacuum
resistant, 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
- generally good UV and ozone resistance
- good resistance to chemicals, oil and fuel
- free of halogens and plasticizers
- 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. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
32	5,75	0,93	160	41,5	0,88	000187:32:x	20
38	5,625	0,93	190	47,5	1,03	000187:38:x	20
40	5,5	0,93	200	49,5	1,07	000187:40:x	20
45	5,375	0,93	225	54,5	1,2	000187:45:x	20
51	5,25	0,93	250	62,5	1,25	000187:51:x	20
60	5,125	0,93	300	71,5	1,44	000187:60:x	20
65	5,1	0,93	325	76,5	1,56	000187:65:x	20
70	5,05	0,93	350	81,5	1,77	000187:70:x	20
76	5	0,93	380	87,5	1,92	000187:76:x	20
80	4,5	0,88	400	91,5	2,01	000187:80:x	20
102	4,125	0,86	600	113	3,1	000187:102:x	20

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. ** Please replace "x" with your desired hose length.

Possible Connections:



Hose Clamp
with Bolts

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Production Process

Master-SANTO SL

**TPV Transport & Suction Hose,
very light duty, for increased
temperatures**



Material

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

Applications

- Steam extraction
- Air supply for blown film lines

Properties

- halogen and plasticizer-free
- extremely flexible
- smallest bending radii
- generally good UV and ozone resistance
- acc. to TRGS 727 and ATEX 2014/34 EU
- smooth inner lining
- good resistance to acids, alkalis and solvent fumes
- very light

Temperature Range

- -40°C up to +130°C
- peaks to +150°C

DN	Op. Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max. Production Length
38	2,5	0,81	38	48	0,24	000424:38:x	25
40	2,4	0,8	40	49	0,25	000424:40:x	25
45	2,3	0,8	45	54	0,28	000424:45:x	25
51	2,2	0,79	50	60	0,36	000424:51:x	25
60	1,6	0,71	60	70	0,43	000424:60:x	25
63	1,5	0,68	63	72	0,44	000424:63:x	25
65	1,4	0,67	65	74	0,46	000424:65:x	25
70	1,3	0,63	70	79	0,49	000424:70:x	25
76	1,2	0,59	75	84	0,59	000424:76:x	25
80	1,1	0,55	80	89	0,63	000424:80:x	25
90	1	0,47	90	100	0,71	000424:90:x	25
102	0,9	0,39	100	111	0,63	000424:102:x	25
115	0,8	0,36	115	124	0,71	000424:115:x	25
120	0,8	0,35	120	130	0,74	000424:120:x	25
127	0,8	0,34	125	135	0,77	000424:127:x	25
152	0,6	0,29	150	160	0,95	000424:152:x	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 and sizes with print. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



Master-Grip Quick-Fix Clamp



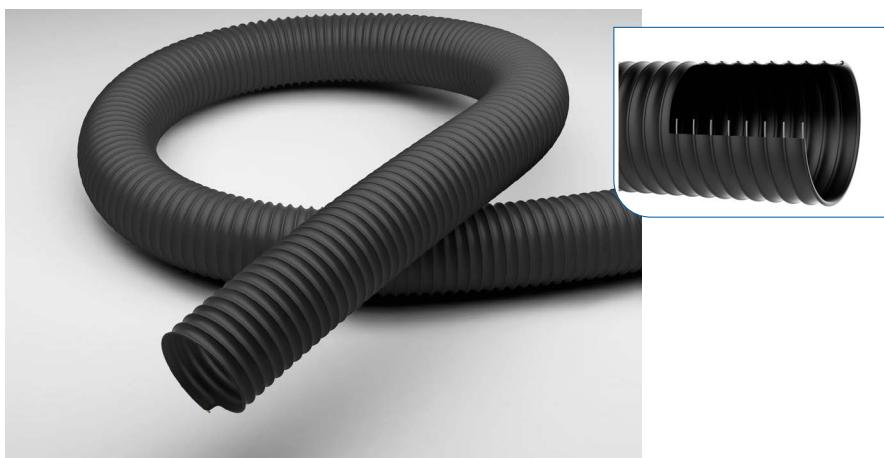
Master-Grip Hose Clamp, screwable

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry - Production Process

Master -SANTO L

**TPV Transport & Suction Hose,
light duty, for increased
temperatures**



Material

- spiral: spring steel wire
- wall: thermoplastic vulcanisate (TPV)

Applications

- Protective Hose against mechanical wear
- Steam extraction
- Air supply and extraction in engine applications
- Conveyance of hot and cold air in vehicle and machine manufacturing
- Liquid and gaseous media

Properties

- halogen and plasticizer-free
- extremely flexible
- light
- smallest bending radii
- generally good UV and ozone resistance
- mostly smooth inner lining
- optimum flow characteristics
- acc. to TRGS 727 and ATEX 2014/34 EU, with earthing at both ends of the spiral for non-flammable dust/bulk solids in Zone 22. For gases/liquids with low conductivity of electrostatic charges in Zone 2.
- good resistance to acids, alkalis and solvent fumes

Temperature Range

- -40°C up to +130°C
- peaks to +150°C

DN	Op. Pressure c. bar	Vacuum c. bar	Bend Radius c. mm*	Outer Ø c. mm	Weight c. kg/m	Article No.**	max Production Length
38	0,69	0,66	46	46	0,24	000236:38:x	25
40	0,69	0,66	48	48	0,38	000236:40:x	25
45	0,61	0,59	53	53	0,4	000236:45:x	25
51	0,55	0,52	58	58	0,43	000236:51:x	25
55	0,51	0,44	63	63	0,49	000236:55:x	25
60	0,46	0,44	68	68	0,51	000236:60:x	25
65	0,42	0,37	73	73	0,62	000236:65:x	25
70	0,37	0,37	78	78	0,65	000236:70:x	25
76	0,37	0,29	84	84	0,69	000236:76:x	25
80	0,32	0,29	88	88	0,73	000236:80:x	25
90	0,28	0,22	99	99	0,85	000236:90:x	25
102	0,28	0,22	110	110	0,91	000236:102:x	25
115	0,23	0,22	124	124	1,02	000236:115:x	25
120	0,23	0,22	129	129	1,06	000236:120:x	25
127	0,23	0,22	135	135	1,13	000236:127:x	25
152	0,19	0,15	161	161	1,42	000236:152:x	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 and sizes with print. Subject to technical changes and colour deviations. ** Please replace "x" with your desired hose length.

Possible Connections:



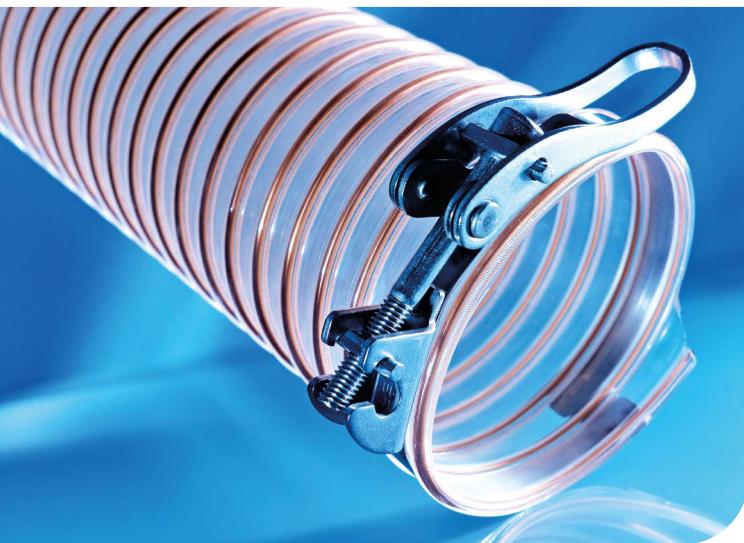
Master-Grip
Quick-Fix Clamp



Master-Grip Hose Clamp,
screwable

To find out more possible connection and fitting options, please see Chapter 4, from page 22 onwards.

Hoses for the Plastics Industry / Connectors & Fittings



For a fast and secure connection - Master-Grip Quick-Fix Clamp



Clamp collars for special applications in transporting problematic goods

It is often the connection of pipelines or hoses onto an existing system, which provides more difficult challenges than at first thought. That's why Masterflex offers the very best in connectors, fittings and customised solutions for all of your specific needs

It's all about the right connections!

Masterflex connectors are designed especially to provide the perfect connection of our hoses to your applications. The optimum in fit, seal and ease of use - no matter the conditions.

The connectors and fittings listed here are only a small selection of those offered by Masterflex for connecting our hoses to your existing machines, systems and pipes. The list of possibilities in the field of connections is almost endless. Ranging from a simple clamp through to the most fully-customised complex solutions
- Masterflex makes the impossible possible.

The **Master-Grip** hose clamp, for example, is equipped with a special bridge, which covers the wire spiral to guarantee a tight connection. This hose clamp is also available with a tool-free Quick-Fix connector.

The **Combiflex** connection technology is available as screw-fit and cast-on versions. The easy docking of these connectors ensures a quick and time-saving installation of hoses and hose systems. This enables downtimes in your production plants to be significantly reduced - and your productivity to be drastically increased.



Master-Grip Hose Clamp, screwable

Special clamp for right-lay hoses



Material

- band collar, bridge, housing: steel/stainless steel 1.4301

Applications

- Special clamp for lighter and medium weight, right-handed spiral hoses such as Flamex B-se, Flamex B-F se, Master-PUR, Master-PVC and Master-SANTO

Properties

- robust
- easy to install
- rust-protected
- primarily tight and tear-proof connection via bridge profiles

For Right-Hand Hoses in DN	Clamping Range in mm	Article No.
38	35-44	001626
40	35-44	001626
45	45-55	001629
50	45-55	001629
55	55-65	001633
60	55-65	001633
65	65-75	001636
70	65-75	001636
75	75-85	001639
80	75-85	001639
90	90-110	001642
100	100-120	001646
110	110-130	001649
120	120-140	001651
125	120-140	001651
130	130-150	001653
140	140-160	001655
150	150-170	001657

All data refers to a media and ambient temperature of +20 °C. Clamping range from 35/44 mm to 500/520 mm.
Available on request in other sizes and materials. Subject to technical changes and colour deviations.

Master-Grip Quick-Fix Clamp

Special clamp for right-lay hoses



Material

- band collar, bridge, housing: steel (1.4301)

Applications

- Special clamp for lighter and medium weight, right-handed spiral hoses such as Flamex B-se, Flamex B-F se, Master-PUR, Master-PVC and Master-SANTO

Properties

- robust
- rust-free
- primarily tight and tear-proof connection via bridge profiles
- adjustable clamping force via clamping screw
- very easy to install
- subsequent quick mounting also possible for pre-installed hoses

For Right-Hand Hoses in DN	Clamping Range in mm	Article No.
75	75-82	001694
80	80-87	001695
90	90-97	001696
100	100-107	001697
110	110-117	001698
120	120-127	001699
125	125-132	001700
130	130-137	001701
140	140-147	001703
150	150-157	001704

All data refers to a media and ambient temperature of +20 °C. Clamping range from 75/82 mm to 500/507 mm.
Available on request in other sizes and materials. Subject to technical changes and colour deviations.

Hose Clamp with Worm-Gear

**Standard clamp
for universal
requirements**



Material

- screw: galvanised steel
- band collar: steel, galvanised

Applications

- Mounting of light duty hose types onto connector brackets on mobile and stationary units

Properties

- robust
- rust-protected
- band width approx. 12 mm
- band thickness approx. 0.5 - 1 mm

Clamping Range in mm	Article No.
25-40	002038
32-50	002040
40-60	002042
50-70	002044
60-80	002046
70-90	002048
80-100	002050
90-110	002052
100-120	002054
110-130	002056
120-140	002058
130-150	002060
140-160	002062
150-170	002064

All data refers to a media and ambient temperature of +20 °C. Clamping range from 75/82 mm to 500/507 mm.
Available on request in other sizes and materials. Subject to technical changes and colour deviations.

Hose Clamp with Bolts

For heavier hoses



Material

- screw: galvanised steel
- band collar: steel, galvanised

Applications

- Special clamp for medium and heavy duty hoses

Properties

- rust-protected
- extremely robust
- band width approx. 20 - 26 mm
- band thickness approx. 0.8 - 1.6 mm

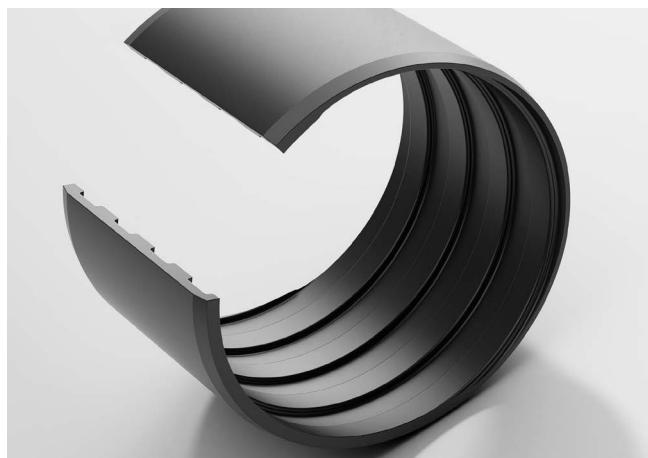
Clamping Range in mm	Width x Thickness in mm	Article No.
32-35	20 x 1,0	002112
36-39	20 x 1,0	002114
40-43	20 x 1,0	002115
44-47	22 x 1,0	002117
48-51	22 x 1,0	002118
52-55	22 x 1,0	002120
56-59	22 x 1,0	002122
60-63	22 x 1,0	002124
64-67	25 x 1,5	002127
68-73	25 x 1,5	002128
74-79	25 x 1,5	002130
80-85	25 x 1,5	002133
86-91	25 x 1,5	002135
92-97	25 x 1,5	002137
98-103	25 x 1,5	002138
104-112	24 x 1,5	002140
113-121	25 x 1,5	002144
122-130	25 x 1,5	002146
131-139	25 x 1,5	002148
140-148	25 x 1,5	002149
149-161	25 x 1,8	002151

All data refers to a media and ambient temperature of +20 °C. Clamping range from 32/35 mm to 500/518 mm.
Available on request in other sizes and materials. Subject to technical changes and colour deviations.

Connectors & Fittings

PU Hose Sleeve

Special sleeve for use with clamps



Material

- lightweight
- abrasion-resistant polyurethane

Applications

- Reusable special sleeve for connecting spiral hoses from Masterflex SE hose range

Properties

- lightweight
- microbe-resistant
- shock-proof

Temperature Range

- -40°C to +90°C
- peaks to +125°C

DN	Da mm	L mm	Article No. Type L	Article No. Type H	Article No. Type HX	Article No. Type Inline	Article No. Type Performance
38	59	25	001331	001329		001330	001332
40	61	25				001333	
51	67	37		001335			
51	71	37			001336	001337	001339
65	86	43	001342	001340		001341	001343
76	101	43		001344	001345	001346	001347
80	101	43	001351	001348	001349	001350	
102	118	80	001355	001352	001353	001354	001356
127	147	115	001360		001358	001359	001361
152	173	133	001364				
152	180	133				001363	001365
204	239	180			001367	001368	

All data refers to a media and ambient temperature of +20 °C. Available from stock are the # marked DN. Subject to technical changes and colour deviations.

Connectors & Fittings

Clamp Collars, screwed

acc. to DIN EN 14420-3



Material

- screws and nuts: galvanised steel
- clamp collar: aluminium

Properties

- light
- robust
- simple mounting

Applications

- Versatile applications for spiral hoses from the Masterflex SE hose range when using PU hose sleeves

DN	Clamping Range mm	Extent	No. Screws	Weight c. kg/pc.	Article No.	For Hose Types
#38	57-60	38x10	4xM6x20	0,18	002209	L/H/Inline/Performance
#40	58-61	40x10	4xM6x20	0,19	002210	Inline/Performance
50	64-67	50x8	4xM8x25	0,27	002211	L/H
#50	69-71	50x10	4xM8x25	0,31	002212	HX/Inline/Performance
#65	84-87	65x10	4xM8x25	0,45	002213	L/H/HX/Inline/Performance
#80	99-102	80x10	4xM8x25	0,51	002214	L/H/HX/Inline/Performance
100	114-119	100x8	4xM10x40	1,19	002215	L/H
#100	126-130	100x14	4xM10x40	1,35	002216	HX/Inline/Performance
125	143-148	125x10	6xM10x40	1,4	002217	L/H
#125	149-154	125x13	6xM12x50	2,65	002218	HX/Inline/Performance
150	168-174	150x10	6xM12x50	3,75	002219	L/H
#150	174-180	150x13	6xM12x50	3,3	002220	HX/Inline/Performance
200	230-239	200x16	8xM12x60	6,75	002221	L/H/HX/Inline

All data refers to a media and ambient temperature of +20 °C. Available from stock are the # marked DN. Subject to technical changes and colour deviations.

Connectors & Fittings

Combiflex PU Cuff EL

PU End Cuff for Master-PUR Hoses, electroconductive



Material

- Polyurethane Ester

Applications

- Extraction and blower systems
- Conveyor systems
- Screwable special coupling for all Master-PUR L/H and Master-PVC L/H hose types

Available on Request

- other DN
- coloured (in not conductive version)
- cuffs for other hose qualities

Product Variations

DN Hose	dA: Connection Size mm	Weight/Piece kg	For Hose Types	Article No.
32	32,7	0,05	PUR L / H und PVC L / H	007730
38	38,8	0,07	PUR L / H und PVC L / H	007731
40	40,9	0,07	PUR L / H und PVC L / H	007732
50	51,2	0,11	PUR L / H und PVC L / H	007733
60	60,8	0,14	PUR L / H und PVC L / H	007734
65	66,4	0,18	PUR L / H und PVC L / H	007735
70	70,9	0,18	PUR L / H und PVC L / H	007736
75	77,0	0,18	PUR L / H und PVC L / H	007737
80	81,7	0,19	PUR L / H und PVC L / H	007738
100	102,2	0,36	PUR L / H und PVC L / H	007739

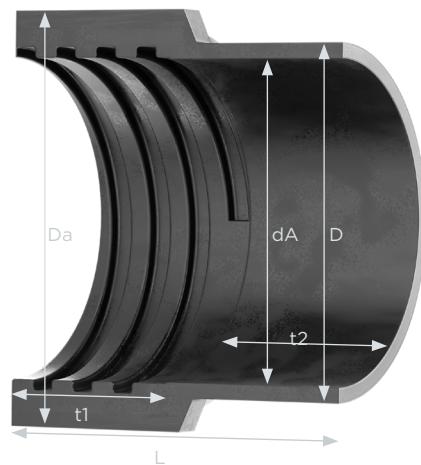
All data refers to a medium and ambient temperature of +20 °C.
Available from stock in the above nominal sizes in black.

Properties

- surface resistance $R_0 < 10^4$ Ohm
- flexible at cold temperatures
- shock-proof
- abrasion resistant
- easy to install
- lightweight
- tension-proof
- dimensionally stable

Temperature Range

- -40 °C to +90 °C
- peaks to +125 °C



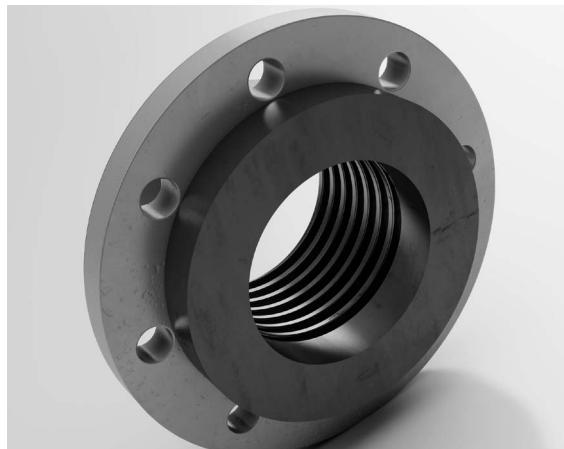
Technical Data

DN Hose	dA: Connection Size mm	D: Outer-Ø Clamp Range mm	t1: Hose Screwing Depth mm	t2: Fitting Insertion Depth mm	L: Totallength mm
32	32,7	39,0	32,9	38,4	71,3
38	38,8	45,0	37,9	43,6	81,5
40	40,9	48,0	42,0	43,1	85,1
50	51,2	59,0	43,0	48,5	91,5
60	60,8	68,9	47,5	42,5	90,0
65	66,4	74,0	50,8	51,0	101,8
70	70,9	78,0	48,2	53,6	101,8
75	77,0	85,0	48,2	53,6	101,8
80	81,7	88,0	53,2	58,7	111,9
100	102,2	112,0	58,3	63,8	122,1

Connectors & Fittings

Combiflex PU Swivel Flange

For counter-flanges acc. to
DIN 2632 / DIN 2632



Material

- swivel flange: aluminium
- collar: abrasion-resistant polyurethane

Applications

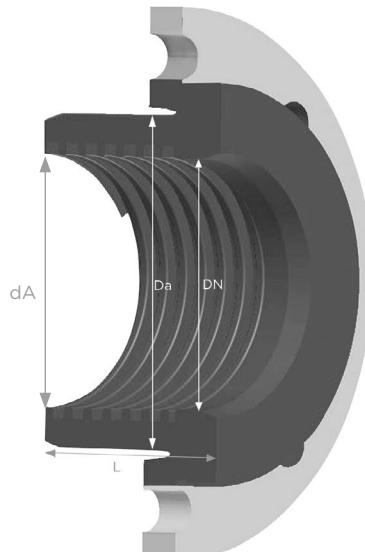
- Screwable plastic collar with loose flange for all Master-PUR L / H / SH / HX Trivolution hose types

Properties

- shock-proof
- high tension-proof
- reusable and exchangeable
- simple mounting
- abrasion and microbe-resistant
- connection option without adjustable constriction of the cross-section

Temperature Range

- -40°C to +90°C
- peaks to +125°C



DN Flange	dA: Pipe Outer-Ø mm	Da: Outer-Ø Thread mm	DN Hose	Hole Circle mm	L: Total Length mm	Weight ca. kg/pc	Article No. Type L	Article No. Type H	Article No. Type HX
50	57	75	50	125	66	0,92	001946	001962	001990
50	60,3	75	50	125	66	0,92	001947	001963	001991
65	76,1	90	65	145	76	1,19	On request	On request	001992
65	76,1	90	70	145	76	1,14	On request	001964	001993
80	88,9	105	75	160	76	1,48	001948	On request	001994
80	88,9	105	80	160	76	1,43	001949	001965	001994
100	108	131	100	180	86	1,74	001951	001966	001995
100	114,3	131	100	180	86	1,74	001952	001967	001996
125	133	156	120	210	92	2,37	001953	On request	On request
125	133	156	125	210	92	2,26	001954	001969	001998
125	139,7	156	125	210	92	2,26	001955	001970	001999

All data refers to a media and ambient temperature of +20 °C. Available from stock in the above listed sizes in black. Available on request in permanently mounted version for watertight, tensile strengthened connections, other DN sizes, coloured. Subject to technical changes and colour deviations.

Connectors & Fittings

Combiflex PU Swivel Flange Inline

For counter-flanges acc. to DIN
2632 / DIN 2633 / DIN 2673



Material

- swivel flange: aluminium
- collar: abrasion-resistant polyurethane

Applications

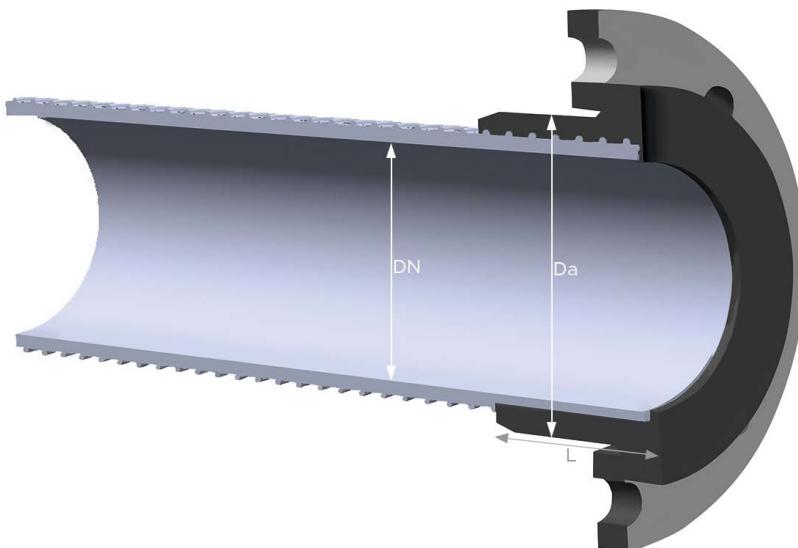
- Cast-on PU loose flange for Master-PUR Inline and Performance hose types

Properties

- abrasion-resistant
- gas/watertight
- lightweight
- microbe-resistant
- shock-proof
- high tension-proof connection
- front-flush hose integration

Temperature Range

- -40°C to +90°C
- peaks to +125°C



DN Flange	dA: Outer-Ø Piper	DN Hose mm	Hole Circle Outer-Ø mm	Weight c. kg/pc	Da: Outer-Ø sprue	L: Total-length in mm	For Hose Types	Article No.
50	57	51	125	0,92	75	66	Inline, Performance	005506
50	60,3	51	125	0,92	75	66	Inline, Performance	005577
65	76,1	65	145	1,19	90	76	Inline, Performance	005519
65	76,1	70	145	1,14	90	76	Inline, Performance	On request
80	88,9	76	160	1,48	105	76	Inline, Performance	005624
80	88,9	80	160	1,43	105	76	Inline, Performance	005625
100	108	102	180	1,74	131	86	Inline, Performance	005626
100	114,3	102	180	1,74	131	86	Inline, Performance	005626
125	133	127	210	2,26	156	92	Inline, Performance	005631
125	139,7	127	210	2,26	156	92	Inline, Performance	005631
150	159	152	240	2,82	184	98	Inline, Performance	005633
150	168,3	152	240	2,82	184	98	Inline, Performance	005633

Subject to technical changes and colour deviations.



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