



Our strong boys

... now even stronger!

Master-PUR Inline

Master-PUR Performance

These are the areas of application



Industry

Industrial applications in which highly abrasive materials are transported place high demands on the load-bearing capacity of a hose.

For these cases, our strong guys are the right solution. With their absolutely smooth and seamless inner wall, they ensure optimum conveying performance and thus reduce the energy consumption of your application.

Due to its high flexibility, the **Master-PUR Performance** has an advantage especially when space is limited.

Due to its particularly reinforced inner wall, the **Master-PUR Inline** is the right transport hose for feeding and cleaning steelworks, quarries, foundries, silo filling and much more.

Areas of Application

- Transport hose for problematic conveyed goods, e. g. sand, gravel, grain, granulates with GRP content
- Transport hose for handling and conveying systems
- Wherever easy-to-clean surfaces are required
- Suction and transport hose for extremely abrasive solids
- Delivery hose for feeding and cleaning in glassworks, mineral processing plants, steelworks, quarries, shipyards and port facilities, cement works, flat roof graveling
- Other conveying and loading equipment

Master-PUR Inline

PU Suction hose and Transport Hose, extremely abrasion resistant, vacuum proof, seamless, very smooth inner lining, antistatic, surface resistance $< 10^9$ Ohm, microbe-resistant



Material

spiral:	spring steel wire
wall:	pure polyurethane
wall thickness:	min. 5.5 mm
inner lining:	application-optimised polyurethane 60° Shore A

Temperature Range

- -40 °C to +90 °C
- peaks to +125 °C

Available on request

- Available on request in other lengths, sizes

Properties

- extremely abrasion resistant, extra strong PU Inline
- completely smooth internal lining, therefore ideal flow characteristics
- microbe-resistant
- flexible
- excellent vacuum-resistance and good pressure-resistance
- permanently antistatic, surface resistance $< 10^9$ Ohm, measured according to DIN EN ISO 8031
- halogen- und silicone free
- good resistance to chemicals, oil and fuel
- high tensile strength
- generally good UV- and ozone resistance

Master-PUR Inline

DN	Operating pressure bar	vacuum bar	bend radius* mm	outer-Ø mm	weight/m kg	article no.**	max. production length m
38	4.65	0.94	150	56	1.72	000195:38:x	20
40	4.5	0.94	160	58	1.79	000195:40:x	20
50	4.16	0.94	196	69	1.65	000195:50:x	20
51	4.125	0.94	200	70	1.64	000195:51:x	20
65	3.9	0.94	300	85	2.02	000195:65:x	20
75	3.75	0.94	390	96	3.31	000195:75:x	20
76	3.75	0.94	400	97	3.44	000195:76:x	20
80	3.375	0.94	410	99	2.69	000195:80:x	20
100	3.03	0.94	428	120	4.24	000195:100:x	20
102	3	0.94	430	122	4.39	000195:102:x	20
115	2.6	0.94	440	136	4.9	000195:115:x	15
125	2.45	0.94	448	146	5.56	000195:125:x	15
127	2.4	0.94	450	148	5.69	000195:127:x	15
150	1.95	0.94	600	175	7.3	000195:150:x	15
152	1.95	0.94	600	175	7.3	000195:152:x	15
175	1.8	0.77	700	198	7.48	000195:175:x	10
180	1.65	0.75	700	202	7.68	000195:180:x	10
200	1.35	0.67	800	223	10.01	000195:200:x	10
203	1.35	0.67	800	227	10.2	000195:203:x	10
250	0.95	0.5	1000	271	12.07	000195:250:x	10
254	0.95	0.5	1000	275	12.1	000195:254:x	10

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

* Refers to the inner hose lining

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

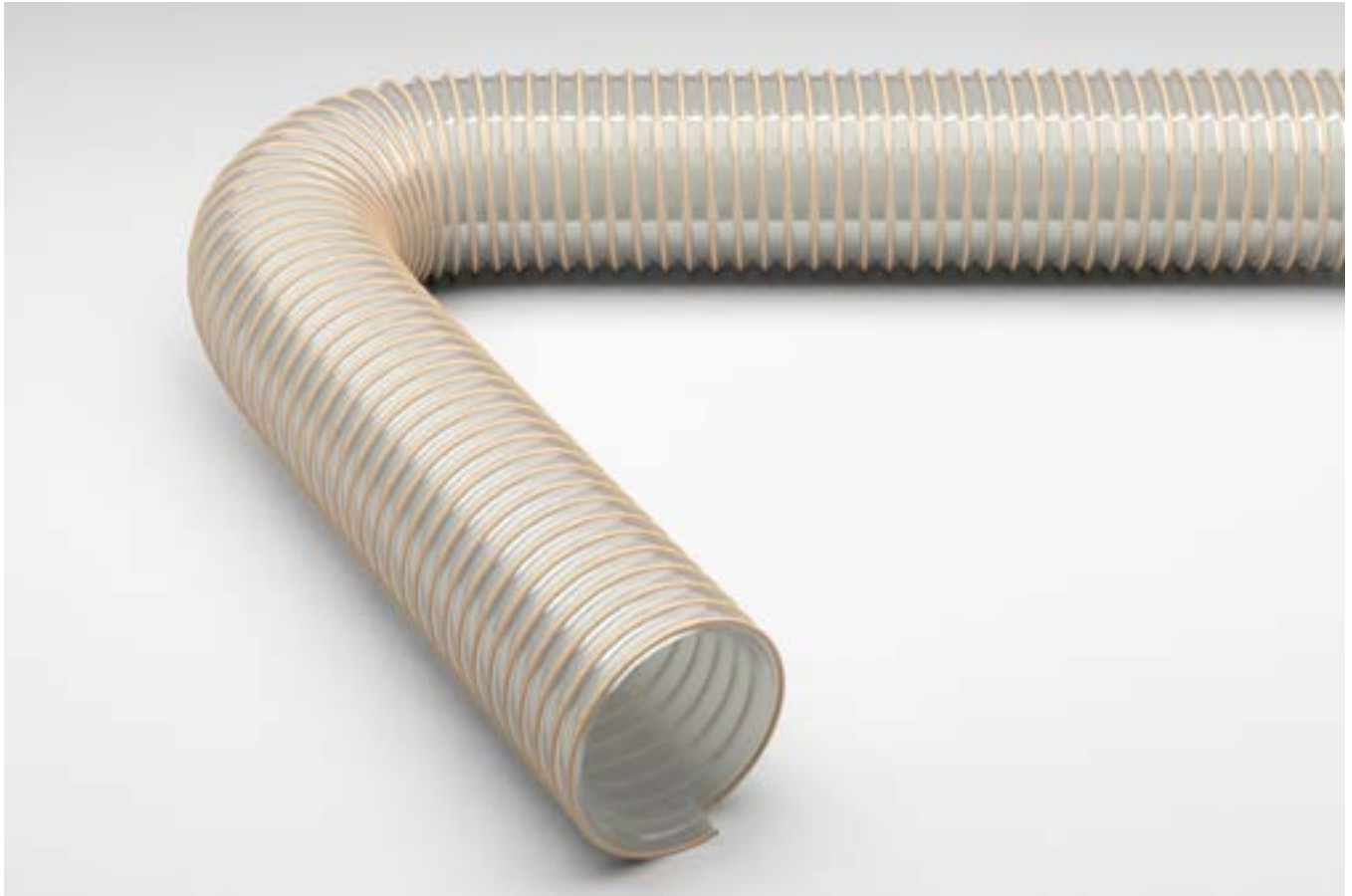
Subject to technical changes and colour deviations.

User benefits:

- Due to its absolutely smooth and absolutely smooth and dead space-free inner surface, the **Master-PUR Inline** offers optimum flow conditions with minimum flow losses.
- Particularly noteworthy is the enormous service life of the **Master-PUR Inline**: Due to the special properties of the material, the **Master-PUR Inline** has a significantly higher abrasion resistance compared to conventional hoses made of thermoplastic polyurethane. The service life of the hose is significantly increased as a result.
- In addition to the extreme abrasion resistance, the **Master-PUR Inline** is extremely robust, while being low weight, in comparison with standard spiral hoses. The **Master-PUR Inline** also has excellent pressure and vacuum resistance.
- In addition, the hose is antistatic and microberesistant.
- No medium residues remain in internal edges or pores.

Master-PUR Performance

PU suction hose and transport hose, extremely abrasion-resistant and vacuum-proof, seamless smooth inner lining, antistatic and microbe-resistant, surface resistance $< 10^9$ Ohm



Material

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

Temperature Range

- -40 °C to +90 °C
- peaks to +125 °C

Available on request

- Available on request in other lengths, sizes

Properties

- extremely abrasion resistant, extra strong PU lining
- completely smooth internal lining, therefore ideal flow characteristics
- microbe-resistant
- flexibel
- excellent vacuum-resistance and good pressure-resistance
- permanently antistatic, surface resistance $< 10^9$ Ohm, measured according to DIN EN ISO 8031
- approved according to TRGS 727 and ATEX 2014/34 EU. Details according to certificate
- halogen- and silicone free
- good resistance to chemicals, oil and fuel
- high tensile and tear strength
- generally good UV and ozone resistance

Master-PUR Performance

DN	Operating pressure bar	vacuum bar	bend radius* mm	outer-Ø mm	weight/m kg	article no.**	max. production length m
38	4.35	0.94	130	50	0.8	000210:38:x	20
40	4.25	0.94	135	52	0.8	000210:40:x	20
45	4.12	0.94	155	57	1	000210:45:x	20
50	4.02	0.94	168	65	1.17	000210:50:x	20
51	4	0.94	170	66	1.2	000210:51:x	20
55	3.8	0.94	175	72	1.3	000210:55:x	20
60	3.7	0.94	185	77	1.5	000210:60:x	20
65	3.5	0.94	190	82	1.6	000210:65:x	20
75	3.18	0.94	245	92	1.87	000210:75:x	20
76	3.15	0.94	250	93	1.9	000210:76:x	20
80	2.9	0.94	270	97	2.1	000210:80:x	20
90	2.7	0.94	285	107	2.4	000210:90:x	20
100	2.53	0.94	297	117	2.58	000210:100:x	20
102	2.5	0.94	300	119	2.6	000210:102:x	20
115	2.3	0.94	325	132	3	000210:115:x	15
125	2.05	0.94	345	142	3.25	000210:125:x	15
127	2	0.94	350	144	3.3	000210:127:x	15
140	1.8	0.94	370	154	3.46	000210:140:x	15
150	1.54	0.94	396	167	3.67	000210:150:x	15
152	1.5	0.94	400	169	3.7	000210:152:x	15
175	1.1	0.7	770	190	4.6	000210:175:x	10
180	1	0.68	780	195	4.7	000210:180:x	10
200	0.8	0.55	840	215	5	000210:200:x	10

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

User benefits:

- Due to its absolutely smooth and free of dead space inner surface, it offers optimal flow conditions with minimal flow losses. The pleasant side effect: energy consumption and costs can be reduced by optimising the flow.
- No medium residues remain on internal edges or pores.
- Thanks to the optimised design of the hose profile, the **Master-PUR Performance**, offers a high degree of flexibility even in confined spaces and is comfortable to handle.
- Due to the properties of the material, the **Master-PUR Performance** has twice the abrasion resistance of conventional hoses made of thermoplastic polyurethane (TPU). The service life of the hose is significantly increased
- Compared to standard spiral hoses, the hose has good pressure and vacuum resistance. In addition, the hose is microbe-resistant and antistatic. It is approved according to TRGS 727 and ATEX 2014/34 EU to avoid ignition hazards due to electrostatic charges. Details according to certificate on our homepage.

The integration of our hoses into your system

For our two strong guys, we already offer numerous standard connection elements customary in the industry, whether firmly cast-on flanges for absolutely tight connections or screwed clamping shells for quick and easy changing - we offer the right solution for every connection system.

Even for special installation situations or particularly high demands on the products, **Masterflex** provides you with the right solution. Whenever standard components can no longer be used, we develop and produce individual special solutions with customised products.

The connection points must be able to withstand the extreme demands of highly abrasive media. Our universal connection options not only ensure easy handling, but also have a cost-optimising effect.

Our connections are distinguished by the absolute diversity, availability, high quality standard and performance of our systems.



Our standard connections



Combiflex
PU Cone Flange,
screwable/fix



Combiflex
PU Threaded
Sockets



Combiflex PU
Fixed Flange



Combiflex PU
Swivel Flange



Combiflex
Cast-on PU
Fixed Flange



Combiflex
Cast-on PU
Swivel Flange



Combiflex Metal
Threaded
Sockets



Cone Flange
with Metal
Sockets



Quick-Fix
Clamp for
Cone Flanges



Hose Reducer,
symmetrical



PU Hose Sleeve



Clamp Collars,
screwed



Hose Clamp
with Bolts



Hose Connecto



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