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MASTERFLEX - April 2017 -

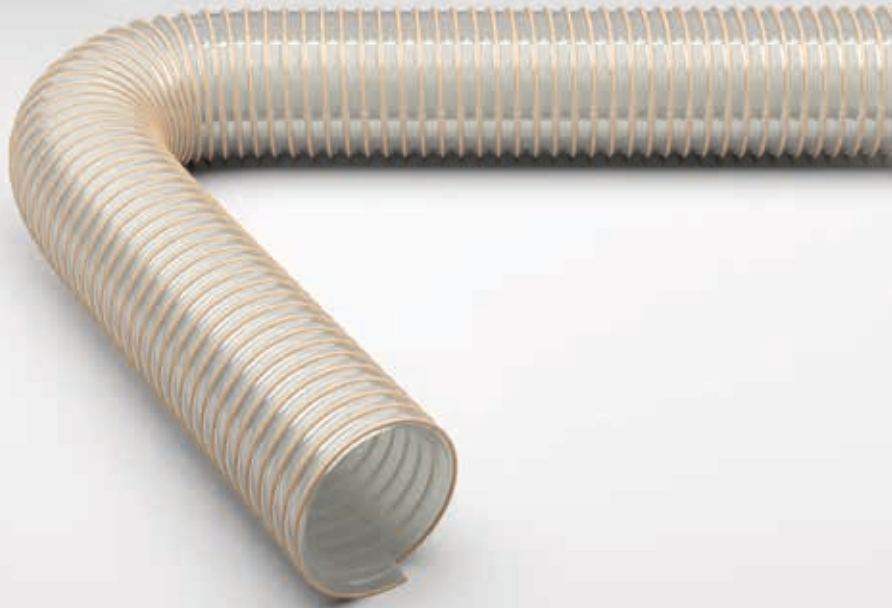


Our strongest workers

... now stronger even longer!

**Master-PUR Inline
Master-PUR Performance**

Master-PUR Performance



PU suction hose & transport hose,
heavy, extremely flexible,
extremely abrasion-resistant,
vacuum-proof,
absolute seamless
smooth inner lining,
antistatic,
microbe-resistant

Now even longer!

Available in lengths
up to 20 m!

Material

Spiral: spring steel wire
Wall: pure polyurethane
Wall thickness: c. 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 or with print

Propertise

- extremely abrasion resistant, extra strong PU lining
- absolutely smooth internal lining (seamless),
therefore ideal flow characteristics
- microbe-resistant
- flexible
- Excellent vacuum-resistance and good pressure-
resistance
- permanently antistatic, surface resistance $< 10^9$ Ohm
acc. to DIN EN ISO 8031
- approved acc. to TRGS 727 and ATEX 2014/34 EU
- free of halogens and plasticizers
- good resistance to chemicals, oil and fuel
- high tensile strength
- generally good UV and ozone resistance

Branches

Industrial applications, such as the transport of highly abrasive bulk solids,
place great demands on hoses with regards to their durability reliability.

Even in the most extreme applications **our strongest workers** are the one real solution,
which no-one else can offer. Their perfectly smooth inner lining not only provides an
absolutely optimum transport performance and material flow-through, but also cuts
your energy consumption in all applications.

Thanks to its extreme flexibility, the **Master-PUR Performance** makes a real difference
especially in very limited installation spaces.

With its especially reinforced inner lining, the **Master-PUR Inline** is the absolute
speciist when it comes to the loading and cleaning of steelworks, quarries, foundries,
silos and much, much more.

Bulk Soilds

Disposal



PU Suction hose & transport hose,
extremely heavy, flexible,
extremely abrasion resistant,
vacuum proof,
absolutely seamless
smooth inner lining,
antistatic,
microbe-resistant

Now even longer!

Available in lengths
up to 20 m!



Material

Spiral: spring steel wire
Wall: pure polyurethane
Wall thickness: c. 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 and with print

Properties

- extremely abrasion resistant, extra strong PU Inliner
- completely smooth internal lining, therefore ideal flow characteristics
- microbe-resistant
- flexible
- excellent vacuum-resistance & good pressure-resistance
- permanently antistatic, surface resistance < 10⁹ Ohm acc. to DIN EN ISO 8031
- free of halogens and plasticizers
- good resistance to chemicals, oil and fuel
- high tensile strength
- generally good UV & ozone resistance

Applications

Insulation



Plastics

- Transport hose for problematic media, e.g. sand, gravel, grain, granules with GFP (glass-fibre reinforced plastic)
- Transport hose for handling and conveying plants
- everywhere where easy-to-clean surfaces are required
- suction and transport hose for extremely abrasive solid media
- Transport hose for feeding and cleaning of glassworks, mineral processing plants, steelwork, quarries, shipyards and docks, cement works, flat-roof graveling
- other conveyor and loading plants

Master-PUR Performance

DN	op. 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
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:

- Thanks to its totally smooth and cavity-free inner surface, it offers excellent flow conditions with virtually no flow loss whatsoever.
- The best part? Thanks to this new level of transport performance, it also cuts your energy consumption and cost in all applications
- No residue build-up through inner edges or pores
- The **Master-PUR Performance's** optimised hose profile design provides even greater flexibility, which makes it easy to use install even in the tightest of spaces
- Due to the nature of the special materials used, the **Master-PUR Performance** boasts 100% greater abrasion-resistance than any other conventional hose made from thermos-plastic polyurethane (TPU). The hose's replacement intervals increase as a result, reducing maintenance costs significantly.
- Compared to standard spiral hoses, it features improved pressure and vacuum resistance. Combined with its microbe-resistance and antistatic qualities, the **Master-PUR Performance** is the perfect all-rounder. It fulfils all TRGS 727 and ATEX 2014/34 EU requirements for the avoidance of ignition hazard resulting from electrostatic charges

DN	op. pressure bar	vaccum bar	bend radius* mm	outer-Ø mm	weigh/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

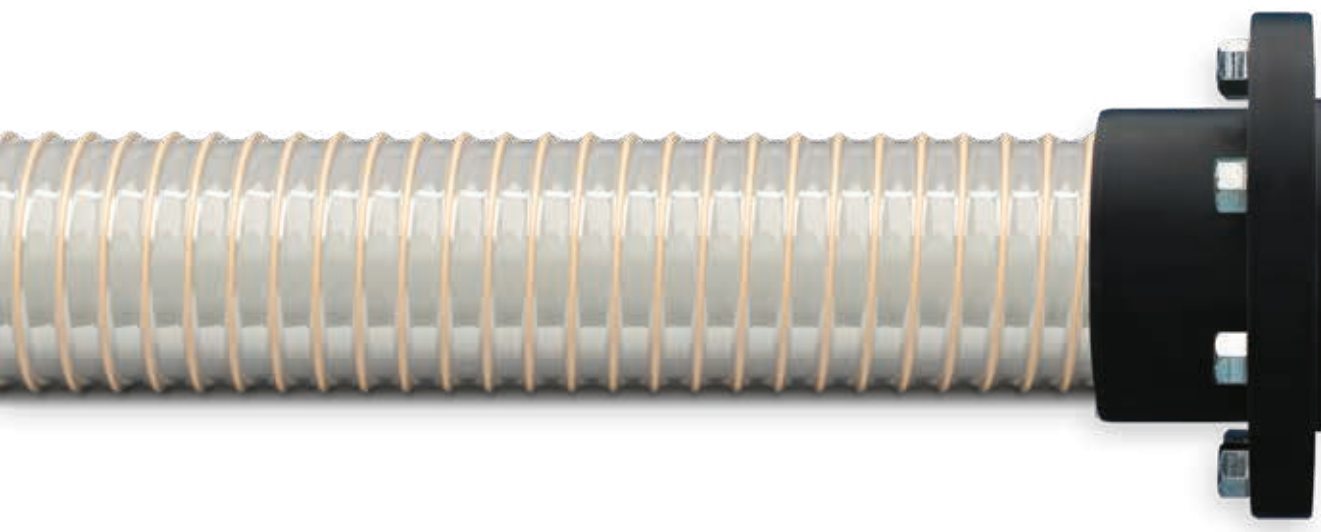
User Benefits:

- Thanks to its perfectly smooth and cavity-free inner surface, the Master-PUR Inline offers excellent flow conditions with no flow loss whatsoever.
- No residue build-up through inner edges or pores
- The real highlight of the Master-PUR Inline is its incredible durability with unparalleled long life-cycle vastly reducing downtime
- Thanks to its special features, the Master-PUR Inline possesses a much greater abrasion resistance compared to conventional and competitor hoses made from PU.
- Despite being light-weight, its extreme abrasion resistance guarantees that the Master-PUR Inline is highly robust and offers a greatly improved pressure and vacuum resistance compared to standard spiral hoses
- Not only that, the Master-PUR Inline is also anti-static and microbe-resistant

Integrating hoses into your system

Our two **strongest workers** don't work alone either! We offer a huge range of standard connectors - from cast-on flanges for air-tight connections or quick-screw clamp collars for quick & easy changeovers - we have the right connection for each and every solution.

Even for the most unique and demanding installation situations and applications, **Masterflex** provides the perfect-fit solution. Where standard components and their applications stop, we develop and produce customized, specialized solutions with tailored-to-fit products.



Conn
Va

Our Standard Connectors



Combiflex PU-Cone Flange



Combiflex PU Threaded



Combiflex PU Fixed Flange
Inline



Combiflex Metal



Combiflex PU Fixed Flange



Combiflex PU Swivel
Flange



Combiflex PU Swivel
Flange Inline

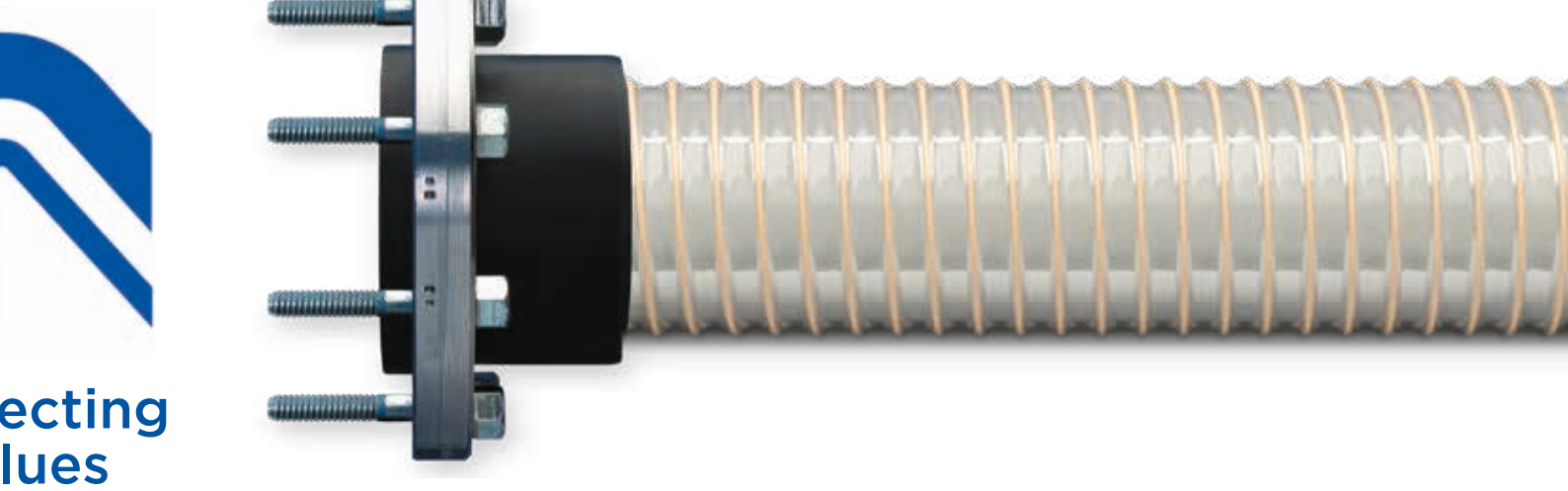


PU Hose

Especially when it comes to extreme demands through highly abrasive media, the connection points have to take everything that's thrown at them.

Our universal connectors guarantee not only easy handling, but also cost optimisations in all of your applications.

Our connections are proven winners through their absolute versatility, availability, extremely high quality standards and the performance of our Masterflex systems. All that, so we can provide you with the best solutions possible.



Threaded Socket



Cone Flange with Metal Socket



Quick-Fix Clamp for Cone Flanges



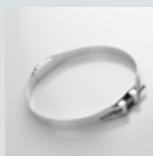
Hose Reducer, symmetrical



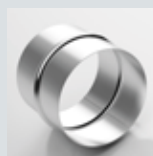
e Sleeve



Clamp Collars, screwed



Hose Clamp with Bolts



Hose Connector