



# 8

## Temperature-Resistant Hoses up to 1.100 °C

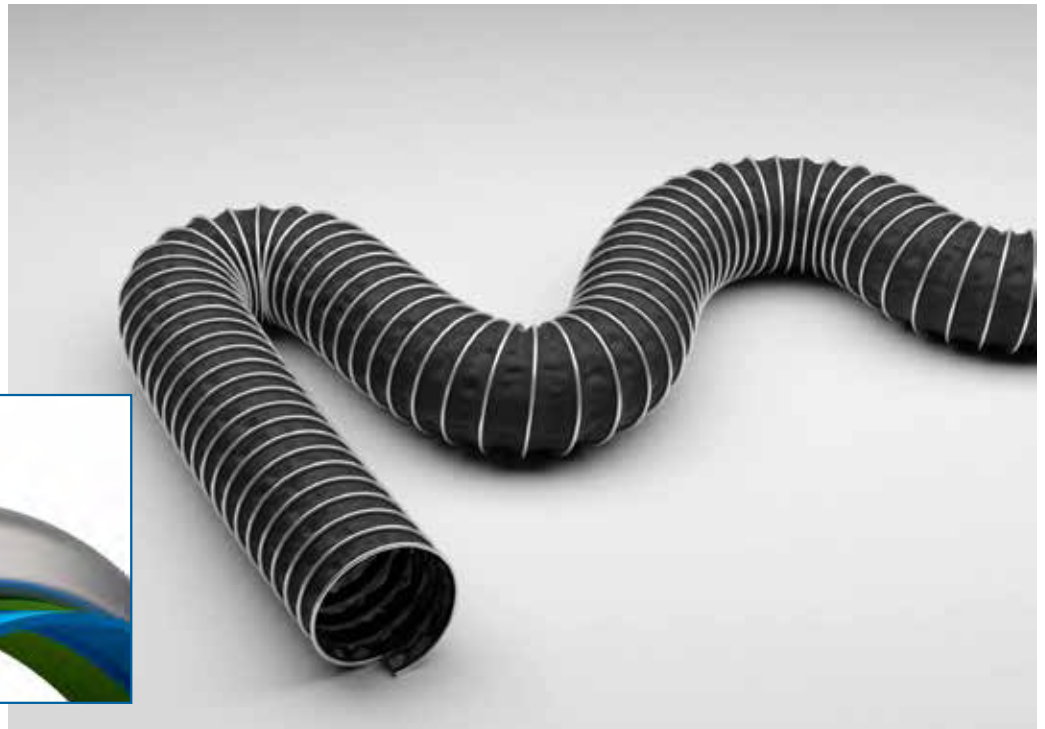
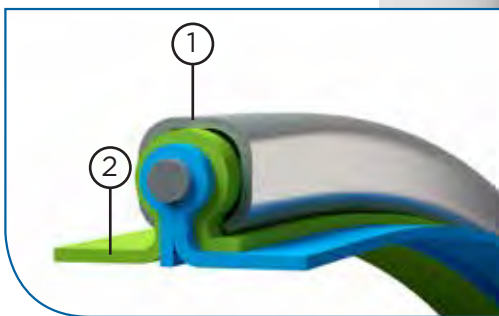
Suction & transport hoses for media temperatures up to 1.100 °C



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## Master-Clip NEOPRENE

Medium and high temperature hose for temperatures up to +125°C



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: neoprene-coated polyester fabric

### Applications

- air-conditioning and ventilation systems
- engine manufacturing
- exhaust gas extraction
- suction of aggressive media
- transport of hot and cold air
- automotive manufacturing
- low pressure range
- chemicals industry

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- outer chafing protection spiral
- increased temperature resistance
- extremely compressible to approx. 1:6
- vibration-proof
- smallest bending radii
- highly flexible
- extremely lightweight
- good chemical resistance
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- -35°C to +125°C
- peaks to +150°C



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
38	0,94	0,47	23	0,4	220-038-107	25
40	0,93	0,46	24	0,4	220-040-107	25
45	0,92	0,43	27	0,4	220-045-107	25
50	0,9	0,39	30	0,4	220-050-107	25
55	0,85	0,32	33	0,4	220-055-107	25
60	0,78	0,27	36	0,5	220-060-107	25
65	0,68	0,23	39	0,5	220-065-107	25
70	0,67	0,2	42	0,5	220-070-107	25
75	0,62	0,18	45	0,6	220-075-107	25
80	0,61	0,15	48	0,6	220-080-107	25
90	0,56	0,12	54	0,6	220-090-107	25
100	0,51	0,1	60	0,6	220-100-107	25
110	0,48	0,08	66	0,7	220-110-107	25
120	0,36	0,07	72	0,7	220-120-107	25
125	0,33	0,06	75	0,8	220-125-107	25
130	0,28	0,06	78	0,8	220-130-107	25
140	0,25	0,05	84	0,8	220-140-107	25
150	0,22	0,04	90	0,9	220-150-107	25
160	0,21	0,04	96	0,9	220-160-107	25
170	0,19	0,03	102	0,9	220-170-107	25
175	0,19	0,03	105	1	220-175-107	25
180	0,1	0,03	108	1	220-180-107	25
200	0,15	0,03	120	1,2	220-200-107	25
215	0,13	0,02	151	1,3	220-215-107	25
225	0,12	0,02	158	1,4	220-225-107	25
250	0,1	0,02	175	1,6	220-250-107	25
275	0,08	0,01	193	1,9	220-275-107	25
300	0,07	0,01	210	2,1	220-300-107	25
315	0,06	0,01	221	2,1	220-315-107	25
325	0,06	0,01	228	2,2	220-325-107	25
350	0,06	0,01	245	2,5	220-350-107	25
375	0,05	0,01	263	2,9	220-375-107	25
400	0,05	0,01	280	3,1	220-400-107	25
450	0,05	0,01	360	3,6	220-450-107	25
500	0,04	0,01	400	4,1	220-500-107	25
550	0,04	0,01	440	4,6	220-550-107	25
600	0,04	0,01	480	5,1	220-600-107	20
700	0,03	0,01	560	6	220-700-107	20
800	0,02	0,01	640	6,9	220-800-107	20
900	0,02	0,01	720	7,8	220-900-107	20

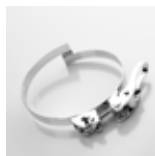
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



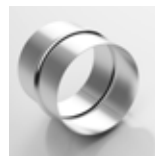
Hose Reducer, symmetrical



Clip-Grip quick action clamp



Clip-Grip Hose clamp, screwable



Hose Connector

## Master-SANTO SL

TPV transport and suction hose, very lightweight, for increased temperatures



### Material

- ① spiral: spring steel wire, TPV-coated
- ② wall: TPV-coated polyester fabric

### Applications

- steam extraction
- air supply and extraction in engine applications
- conveyance of hot and cold air in vehicle and machine manufacturing
- gaseous media
- air supply at blown film machines

### Available on request

- available on request in other lengths and sizes with print or hardly inflammable acc. to DIN 4102 B1.

### Properties

- good resistance to acids, alkalis and solvent fumes
- smooth inner lining
- super lightweight
- smallest bending radii
- highly flexible
- halogen and plasticizer-free
- generally good UV and ozone resistance
- 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.

### Temperature Range

- -40°C to +130°C
- peaks to +150°C



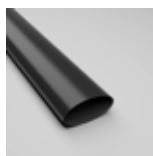
Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	outer Ø mm	weight/m kg	article no.	max. production length m
25	3	0,88	25	33	0,14	325-025-107	25
26	3	0,88	25	33	0,15	325-026-107	25
30	3	0,86	30	38	0,18	325-030-107	25
32	2,6	0,83	32	40	0,2	325-032-107	25
38	2,5	0,81	38	48	0,24	325-038-107	25
40	2,4	0,8	40	49	0,25	325-040-107	25
45	2,3	0,8	45	54	0,28	325-045-107	25
50	2,2	0,79	50	60	0,34	325-050-107	25
51	2,2	0,79	50	60	0,36	325-051-107	25
60	1,6	0,71	60	70	0,43	325-060-107	25
63	1,5	0,68	63	72	0,44	325-063-107	25
65	1,4	0,67	65	74	0,46	325-065-107	25
70	1,3	0,63	70	79	0,49	325-070-107	25
75	1,2	0,59	75	83	0,57	325-075-107	25
76	1,2	0,59	75	84	0,59	325-076-107	25
80	1,1	0,55	80	89	0,63	325-080-107	25
90	1	0,47	90	100	0,71	325-090-107	25
100	0,9	0,39	100	110	0,61	325-100-107	25
102	0,9	0,39	100	111	0,63	325-102-107	25
110	0,9	0,37	110	119	0,68	325-110-107	25
115	0,8	0,36	115	124	0,71	325-115-107	25
120	0,8	0,35	120	130	0,74	325-120-107	25
125	0,8	0,34	125	133	0,75	325-125-107	25
127	0,8	0,34	125	135	0,77	325-127-107	25
130	0,7	0,33	130	138	0,79	325-130-107	25
140	0,7	0,31	140	149	0,86	325-140-107	25
150	0,6	0,29	150	160	0,93	325-150-107	25
152	0,6	0,29	150	160	0,95	325-152-107	25
160	0,6	0,28	160	170	1,01	325-160-107	25
170	0,6	0,26	170	180	1,07	325-170-107	25
175	0,5	0,25	175	185	1,1	325-175-107	25
180	0,5	0,24	180	190	1,13	325-180-107	25
200	0,5	0,2	200	210	1,66	325-200-107	25
203	0,5	0,2	200	211	1,68	325-203-107	25
225	0,4	0,18	225	236	1,88	325-225-107	25
250	0,4	0,16	250	260	1,76	325-250-107	25
254	0,4	0,16	250	262	1,78	325-254-107	25
275	0,3	0,14	275	287	1,96	325-275-107	25
280	0,3	0,14	280	291	1,98	325-280-107	25
300	0,3	0,12	300	313	2,75	325-300-107	25
350	0,2	0,08	350	362	3,19	325-350-107	25
400	0,2	0,05	400	413	3,65	325-400-107	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 note the changed article numbers.

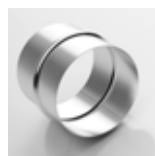
The new article numbers can be found in the online product data sheets.



Heat-Shrink Cuff



Master-Grip Hose Clamp, screwable



Hose Connector



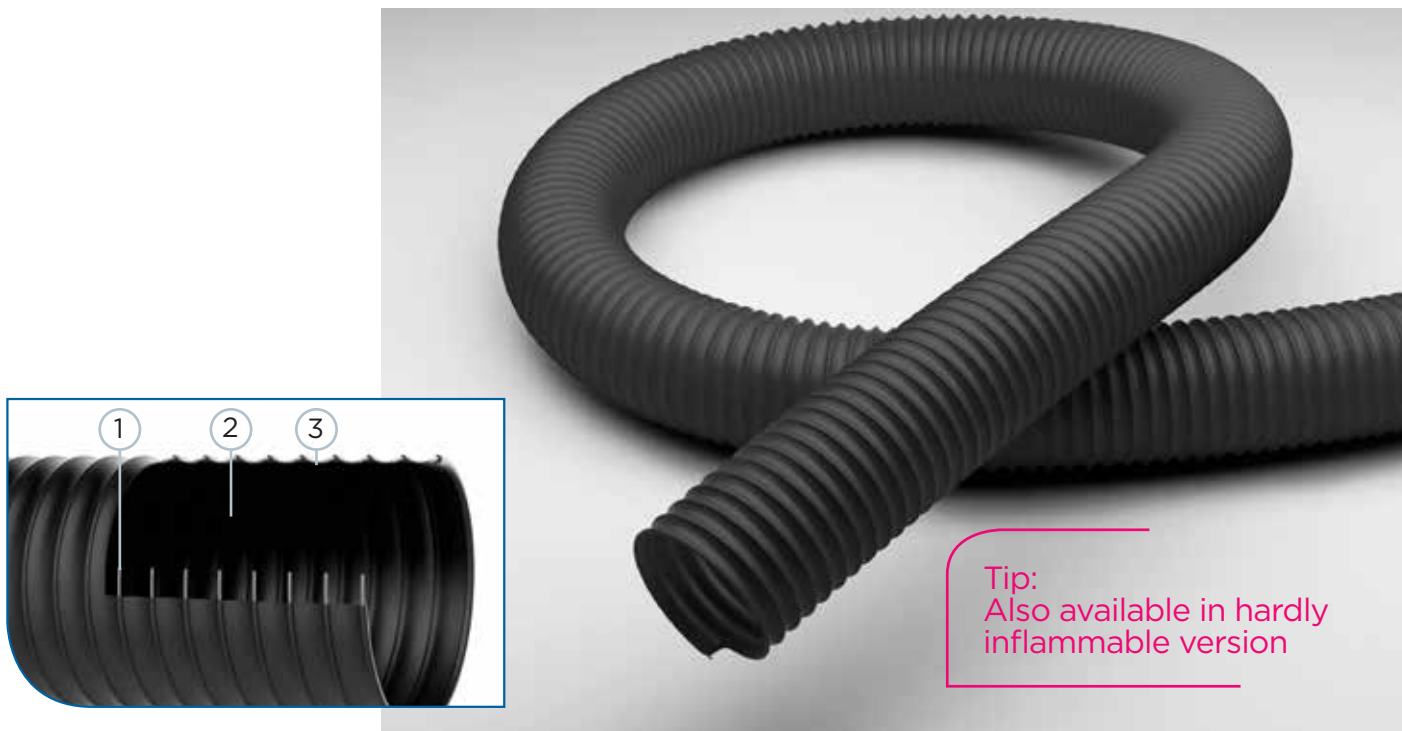
Master-Grip Quick-Fix Clamp



Hose Reducer, symmetrical

## Master-SANTO L

TPV transport and suction hose, lightweight, for increased temperatures



### Material

- 1 spiral: spring steel wire
- 2 wall: thermoplastic vulcanisate (TPV)
- 3 wall thickness between spirals approx. 0.7 mm

### Applications

- steam extraction
- air supply and extraction in engine applications
- conveyance of hot and cold air in vehicle and machine manufacturing
- liquid and gaseous media
- protective hose against mechanical wear

### Available on request

- available in other lengths and sizes with customer-specific imprint or with flame-resistance (hardly inflammable) feature

### Properties

- good resistance to acids, alkalis and solvent fumes
- mostly smooth inner lining
- very good flexibility
- light
- smallest bending radii
- halogen and plasticizer-free
- optimum flow characteristics
- generally good UV and ozone resistance
- 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.

### Temperature Range

- -40°C to +130°C
- peaks to +150°C



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	outer Ø mm	weight/m kg	article no.	max. production length m
25	1,06	0,79	30	30	0,24	150-025-107	25
26	1,06	0,79	31	31	0,24	150-026-107	25
32	0,83	0,71	40	40	0,34	150-032-107	25
38	0,69	0,66	46	46	0,37	150-038-107	25
40	0,69	0,66	48	48	0,38	150-040-107	25
45	0,61	0,59	53	53	0,4	150-045-107	25
51	0,55	0,52	58	58	0,43	150-051-107	25
55	0,51	0,44	63	63	0,49	150-055-107	25
60	0,46	0,44	68	68	0,51	150-060-107	25
65	0,42	0,37	73	73	0,62	150-065-107	25
70	0,37	0,37	78	78	0,65	150-070-107	25
76	0,37	0,29	84	84	0,69	150-076-107	25
80	0,32	0,29	88	88	0,73	150-080-107	25
90	0,28	0,22	99	99	0,85	150-090-107	25
102	0,28	0,22	110	110	0,91	150-102-107	25
110	0,23	0,22	119	119	0,99	150-110-107	25
115	0,23	0,22	124	124	1,02	150-115-107	25
120	0,23	0,22	129	129	1,06	150-120-107	25
127	0,23	0,22	135	135	1,13	150-127-107	25
130	0,19	0,22	139	139	1,15	150-130-107	25
140	0,19	0,15	149	149	1,33	150-140-107	25
152	0,19	0,15	161	161	1,42	150-152-107	25
160	0,19	0,15	170	170	1,67	150-160-107	25
170	0,14	0,15	180	180	1,73	150-170-107	25
175	0,14	0,15	185	185	1,78	150-175-107	25
180	0,14	0,15	190	190	1,52	150-180-107	25
203	0,14	0,15	214	214	2,21	150-203-107	25
225	0,09	0,07	235	235	2,45	150-225-107	25
250	0,09	0,07	257	257	2,85	150-250-107	25
254	0,09	0,07	260	260	2,9	150-254-107	25
275	0,09	0,07	284	284	2,99	150-275-107	25
280	0,09	0,07	290	290	3,01	150-280-107	25
300	0,08	0,07	310	310	3,07	150-300-107	20
315	0,08	0,07	325	325	3,11	150-315-107	20
325	0,08	0,07	335	335	3,26	150-325-107	20
350	0,04	0,07	360	360	3,46	150-350-107	20
375	0,04	0,05	385	385	3,87	150-375-107	20
400	0,04	0,05	410	411	4,27	150-400-107	20
450	0,04	0,05	460	461	4,86	150-450-107	20
500	0,04	0,05	510	511	5,47	150-500-107	20

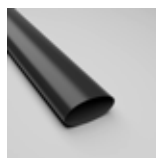
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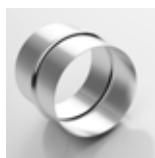
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Hose Reducer, symmetrical



Heat-Shrink Cuff



Hose Connector



Master-Grip Hose Clamp, screwable



Master-Grip Quick-Fix Clamp



## Master-SANTO H

TPV transport and suction hose, medium weight, for increased temperatures



### Material

- ① spiral: spring steel wire
- ② wall: thermoplastic vulcanisate (TPV)
- ③ wall thickness between spirals approx. 1.4 mm

### Applications

- steam extraction
- air supply and extraction in engine applications
- conveyance of hot and cold air in vehicle and machine manufacturing
- liquid and gaseous media
- protective hose against mechanical wear

### Available on request

- available in other lengths and sizes with customer-specific imprint or with flame-resistance (hardly inflammable) feature

### Properties

- extremely flexible, lightweight
- good resistance to acids, alkalis and solvent fumes
- mostly smooth inner lining
- increased mechanical resistance
- small bending radii
- increased pressure and vacuum resistance
- halogen and plasticizer-free
- 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.
- generally good UV and ozone resistance

### Temperature Range

- -40°C to +130°C
- peaks to +150°C



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	outer Ø mm	weight/m kg	article no.	max. production length m
25	1,46	0,992	47	33	0,25	151-025-107	25
26	1,46	0,92	47	33	0,25	151-026-107	25
32	1,14	0,92	60	41	0,35	151-032-107	25
38	1,09	0,82	69	47	0,4	151-038-107	25
40	1,05	0,82	72	49	0,41	151-040-107	25
45	1,03	0,81	80	55	0,47	151-045-107	25
51	1,02	0,79	87	61	0,55	151-051-107	25
55	0,96	0,76	95	65	0,59	151-055-107	25
60	0,89	0,74	102	70	0,64	151-060-107	25
65	0,84	0,66	112	75	0,69	151-065-107	25
70	0,79	0,66	117	80	0,76	151-070-107	25
76	0,7	0,59	126	87	0,8	151-076-107	25
80	0,7	0,59	132	91	0,87	151-080-107	25
90	0,58	0,52	149	101	0,94	151-090-107	25
102	0,53	0,44	165	112	1,01	151-102-107	25
110	0,47	0,44	179	121	1,09	151-110-107	25
115	0,47	0,31	186	126	1,13	151-115-107	25
120	0,46	0,31	194	131	1,17	151-120-107	25
127	0,46	0,31	203	138	1,27	151-127-107	25
130	0,46	0,31	209	141	1,31	151-130-107	25
140	0,37	0,25	224	151	1,41	151-140-107	25
152	0,37	0,25	242	163	1,5	151-152-107	25
160	0,32	0,25	255	171	1,73	151-160-107	25
170	0,32	0,18	270	181	1,88	151-170-107	25
175	0,32	0,18	278	186	1,96	151-175-107	25
180	0,26	0,18	285	191	2,04	151-180-107	25
203	0,26	0,18	321	215	2,25	151-203-107	25
225	0,21	0,12	353	237	2,5	151-225-107	25
250	0,21	0,12	388	261	2,99	151-250-107	25
254	0,21	0,12	390	263	3,07	151-254-107	25
275	0,16	0,12	426	288	3,58	151-275-107	25
280	0,16	0,12	435	293	3,64	151-280-107	25
300	0,16	0,12	465	313	3,9	151-300-107	20
315	0,16	0,12	488	328	4,13	151-315-107	20
325	0,16	0,12	503	338	4,29	151-325-107	20
350	0,16	0,12	540	363	4,84	151-350-107	20
375	0,11	0,07	580	388	5,23	151-375-107	20
400	0,11	0,07	615	413	5,69	151-400-107	20
450	0,11	0,07	690	463	6,58	151-450-107	20
500	0,11	0,07	765	513	7,38	151-500-107	20

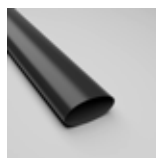
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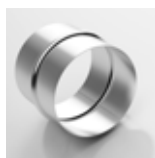
**The new article numbers can be found in the online product data sheets.**



Hose Reducer, symmetrical



Heat-Shrink Cuff



Hose Connector



Master-Grip Hose Clamp, screwable



Master-Grip Quick-Fix Clamp

## Master-NEO 1

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



### Material

- ① spiral: spring steel wire
- ② wall: neoprene-coated glass fabric
- ③ cord: fibreglass fabric

### Applications

- chemicals industry
- 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 and ambient temperatures
- automotive manufacturing
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, with spiral-free sleeves, with plastic spirals.

### Properties

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

### Temperature Range

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



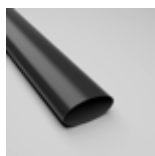
Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
13	1,7	0,51	8	0,1	680-013-107	4
19	1,6	0,5	8	0,11	680-019-107	4
25	1,6	0,5	8	0,12	680-025-107	4
32	1,37	0,49	11	0,15	680-032-107	4
35	1,35	0,49	11	0,15	680-035-107	4
38	1,3	0,49	12	0,17	680-038-107	4
41	1,3	0,47	13	0,2	680-041-107	4
42	1,2	0,47	13	0,2	680-042-107	4
44	1,2	0,45	14	0,21	680-044-107	4
45	1,2	0,45	14	0,21	680-045-107	4
51	1,2	0,42	16	0,25	680-051-107	4
55	1,1	0,41	18	0,27	680-055-107	4
57	1,1	0,4	18	0,28	680-057-107	4
60	1,1	0,39	20	0,3	680-060-107	4
63	1,1	0,38	22	0,32	680-063-107	4
64	1,1	0,38	22	0,32	680-064-107	4
65	1,1	0,37	22	0,34	680-065-107	4
70	1,1	0,35	24	0,36	680-070-107	4
76	1,1	0,33	27	0,41	680-076-107	4
80	1	0,31	28	0,44	680-080-107	4
83	1	0,3	28	0,46	680-083-107	4
90	1	0,29	29	0,49	680-090-107	4
91	1	0,29	29	0,49	680-091-107	4
102	0,9	0,26	35	0,65	680-102-107	4
108	0,9	0,24	38	0,68	680-108-107	4
110	0,9	0,24	38	0,69	680-110-107	4
114	0,9	0,22	40	0,71	680-114-107	4
120	0,8	0,2	43	0,76	680-120-107	4
127	0,8	0,17	46	0,8	680-127-107	4
130	0,8	0,17	47	0,82	680-130-107	4
140	0,7	0,15	48	0,9	680-140-107	4
152	0,7	0,14	51	0,99	680-152-107	4
160	0,6	0,13	53	1,05	680-160-107	4
165	0,6	0,12	55	1,08	680-165-107	4
180	0,6	0,11	60	1,19	680-180-107	4
203	0,5	0,07	68	1,33	680-203-107	4
229	0,4	0,06	84	1,48	680-229-107	4
254	0,4	0,04	102	1,68	680-254-107	4
305	0,2	0,02	123	2,05	680-305-107	4

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 note the changed article numbers.**

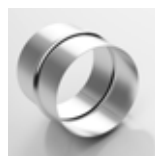
**The new article numbers can be found in the online product data sheets.**



Heat-Shrink Cuff



Hose Clamp with Worm-Gear Drive



Hose Connector



Hose Reducer, symmetrical

## Master-NEO 2

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



### Material

- ① spiral: spring steel wire
- ② wall: neoprene-coated glass fabric, double-layered
- ③ cord: fibreglass fabric

### Applications

- chemicals industry
- conveyance of air and gaseous media with high nominal and ambient temperatures with greater mechanical requirements
- hot air hose for granulate dryer
- machine and engine manufacturing
- shipbuilding
- plastic processing industry
- waste incineration plants
- automotive manufacturing
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, with spiral-free sleeves, with plastic spirals.

### Properties

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

### Temperature Range

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



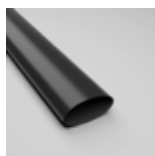
Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
13	2,8	0,64	15	0,16	681-013-107	4
19	2,8	0,64	15	0,19	681-019-107	4
26	2,8	0,64	15	0,22	681-026-107	4
30	2,8	0,64	15	0,25	681-030-107	4
35	2,7	0,62	16	0,27	681-032-107	4
38	2,6	0,59	18	0,31	681-038-107	4
41	2,6	0,59	19	0,32	681-041-107	4
42	2,6	0,59	19	0,32	681-042-107	4
44	2,6	0,55	21	0,34	681-044-107	4
45	2,6	0,55	21	0,34	681-045-107	4
51	2,6	0,51	24	0,36	681-051-107	4
55	2,5	0,48	27	0,42	681-055-107	4
57	2,5	0,48	28	0,43	681-057-107	4
60	2,4	0,47	31	0,47	681-060-107	4
63	2,4	0,47	31	0,49	681-063-107	4
64	2,4	0,47	31	0,49	681-064-107	4
65	2,4	0,47	31	0,5	681-065-107	4
70	2,3	0,43	35	0,53	681-070-107	4
76	2,2	0,42	38	0,58	681-076-107	4
80	2,1	0,41	40	0,62	681-080-107	4
83	2,1	0,4	42	0,64	681-083-107	4
90	2	0,39	44	0,7	681-083-107	4
91	2	0,39	44	0,7	681-091-107	4
102	1,9	0,34	52	0,77	681-102-107	4
108	1,7	0,3	55	0,83	681-108-107	4
110	1,7	0,29	57	0,85	681-110-107	4
114	1,6	0,28	57	0,89	681-114-107	4
120	1,6	0,28	61	0,94	681-120-107	4
127	1,4	0,25	64	1	681-127-107	4
130	1,3	0,23	65	1,02	681-130-107	4
140	1,3	0,19	70	1,11	681-140-107	4
152	1,2	0,17	75	1,2	681-152-107	4
160	1,1	0,15	80	1,28	681-160-107	4
173	1	0,13	87	1,4	681-173-107	4
180	1	0,12	90	1,48	681-180-107	4
203	0,7	0,09	101	1,65	681-203-107	4
229	0,6	0,08	125	1,9	681-229-107	4
254	0,5	0,07	150	2,14	681-254-107	4
305	0,3	0,04	210	2,58	681-305-107	4

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 note the changed article numbers.

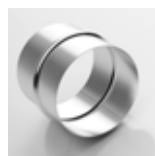
The new article numbers can be found in the online product data sheets.



Heat-Shrink Cuff



Hose Clamp with Worm-Gear Drive



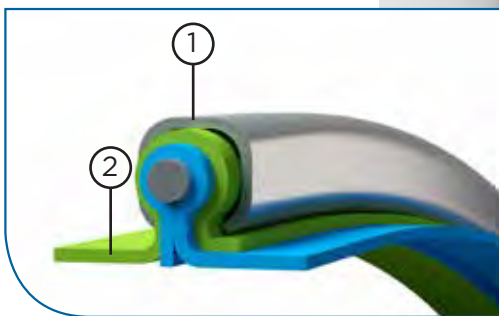
Hose Connector



Hose Reducer, symmetrical

## Master-Clip HYPALON

Medium and high temperature hose for temperatures up to +175°C



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: HYPALON®-coated polyester fabric

### Applications

- air-conditioning and ventilation systems
- engine manufacturing
- exhaust gas extraction
- suction of aggressive media
- transport of hot and cold air
- granulate drying
- standard industrial hose
- automotive manufacturing
- low pressure range
- extractor units

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- hardly inflammable
- increased temperature resistance
- extremely compressable to approx. 1:6
- outer chafing protection spiral
- vibration-proof
- excellent UV / ozone resistance
- smallest bending radii
- highly flexible
- very good chemical resistance
- high tension-proof connection of wall-lining and spiral via special clamp mechanism
- extremely lightweight

### Temperature Range

- -40°C to +175°C
- peaks to +190°C



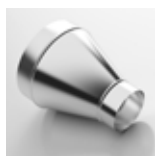
Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
38	0,94	0,47	23	0,4	221-038-107	25
40	0,93	0,46	24	0,4	221-040-107	25
45	0,92	0,43	27	0,4	221-045-107	25
50	0,9	0,39	30	0,4	221-050-107	25
55	0,85	0,32	33	0,4	221-055-107	25
60	0,78	0,27	36	0,5	221-060-107	25
65	0,68	0,23	39	0,5	221-065-107	25
70	0,67	0,2	42	0,5	221-070-107	25
75	0,62	0,18	45	0,6	221-075-107	25
80	0,61	0,15	48	0,6	221-080-107	25
90	0,56	0,12	54	0,6	221-090-107	25
100	0,51	0,1	60	0,6	221-100-107	25
110	0,48	0,08	66	0,7	221-110-107	25
120	0,36	0,07	72	0,7	221-120-107	25
125	0,33	0,06	75	0,8	221-125-107	25
130	0,28	0,06	78	0,8	221-130-107	25
140	0,25	0,05	84	0,8	221-140-107	25
150	0,22	0,04	90	0,9	221-150-107	25
160	0,21	0,04	96	0,9	221-160-107	25
170	0,19	0,03	102	0,9	221-170-107	25
175	0,19	0,03	105	1	221-175-107	25
180	0,172	0,03	108	1	221-180-107	25
200	0,15	0,03	120	1,2	221-200-107	25
215	0,13	0,02	151	1,3	221-215-107	25
225	0,12	0,02	158	1,4	221-225-107	25
250	0,1	0,02	175	1,6	221-250-107	25
275	0,08	0,01	193	1,9	221-275-107	25
300	0,07	0,01	210	2,1	221-300-107	25
315	0,06	0,01	221	2,1	221-315-107	25
325	0,06	0,01	228	2,2	221-325-107	25
350	0,06	0,01	245	2,5	221-350-107	25
375	0,05	0,01	263	2,9	221-375-107	25
400	0,05	0,01	280	3,1	221-400-107	25
450	0,05	0,01	360	3,6	221-450-107	25
500	0,04	0,01	400	4,1	221-500-107	25
550	0,04	0,01	440	4,6	221-550-107	25
600	0,04	0,01	480	5,1	221-600-107	20
700	0,03	0,01	560	6	221-700-107	20
800	0,02	0,01	640	6,9	221-800-107	20
900	0,02	0,01	720	7,8	221-900-107	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 note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



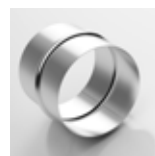
Hose Reducer, symmetrical



Clip-Grip quick action clamp



Clip-Grip Hose clamp, screwable

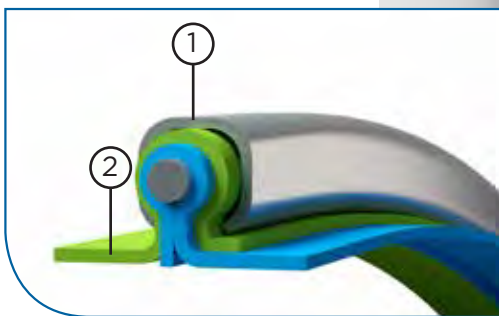


Hose Connector



## Master-Clip VITON

Medium and high temperature hose for temperatures up to +210°C



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: Viton®-coated polyester fabric

### Applications

- paint mist extraction
- suction/extraction of aggressive media in medium temperature range
- low pressure range
- chemicals industry

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- very good chemical resistance
- increased temperature resistance
- extremely compressable to approx. 1:6
- outer chafing protection spiral
- vibration-proof
- smallest bending radii
- highly flexible
- high tension-proof connection of wall-lining and spiral via special clamp mechanism
- tear-proof
- excellent UV / ozone resistance
- extremely lightweight

### Temperature Range

- -25°C to +210°C
- peaks to +240°C



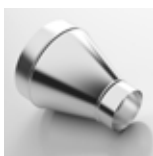
Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
38	0,94	0,47	23	0,4	222-038-119	25
40	0,93	0,46	24	0,4	222-040-119	25
45	0,92	0,43	27	0,4	222-045-119	25
50	0,9	0,39	30	0,4	222-050-119	25
55	0,85	0,32	33	0,4	222-055-119	25
60	0,78	0,27	36	0,5	222-060-119	25
65	0,68	0,23	39	0,5	222-065-119	25
70	0,67	0,2	42	0,5	222-070-119	25
75	0,62	0,18	45	0,6	222-075-119	25
80	0,61	0,15	48	0,6	222-080-119	25
90	0,56	0,12	54	0,6	222-090-119	25
100	0,51	0,1	60	0,6	222-100-119	25
110	0,48	0,08	66	0,7	222-110-119	25
120	0,36	0,07	72	0,7	222-120-119	25
125	0,33	0,06	75	0,8	222-125-119	25
130	0,28	0,06	78	0,8	222-130-119	25
140	0,25	0,05	84	0,8	222-140-119	25
150	0,22	0,04	90	0,9	222-150-119	25
160	0,21	0,04	96	0,9	222-160-119	25
170	0,19	0,03	102	0,9	222-170-119	25
175	0,19	0,03	105	1	222-175-119	25
180	0,17	0,03	108	1	222-180-119	25
200	0,15	0,03	120	1,2	222-200-119	25
215	0,13	0,02	151	1,3	222-215-119	25
225	0,12	0,02	158	1,4	222-225-119	25
250	0,1	0,02	175	1,6	222-250-119	25
275	0,08	0,01	193	1,9	222-275-119	25
300	0,07	0,01	210	2,1	222-300-119	25
315	0,06	0,01	221	2,1	222-315-119	25
325	0,06	0,01	228	2,2	222-325-119	25
350	0,06	0,01	245	2,5	222-350-119	25
375	0,05	0,01	263	2,9	222-375-119	25
400	0,05	0,01	280	3,1	222-400-119	25
450	0,05	0,01	360	3,6	222-450-119	25
500	0,04	0,01	400	4,1	222-500-119	25
550	0,04	0,01	440	4,6	222-550-119	25
600	0,04	0,01	480	5,1	222-600-119	20
700	0,03	0,01	560	6	222-700-119	20
800	0,02	0,01	640	6,9	222-800-119	20
900	0,02	0,01	720	7,8	222-900-119	20

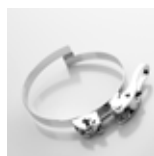
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



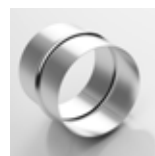
Hose Reducer, symmetrical



Clip-Grip quick action clamp



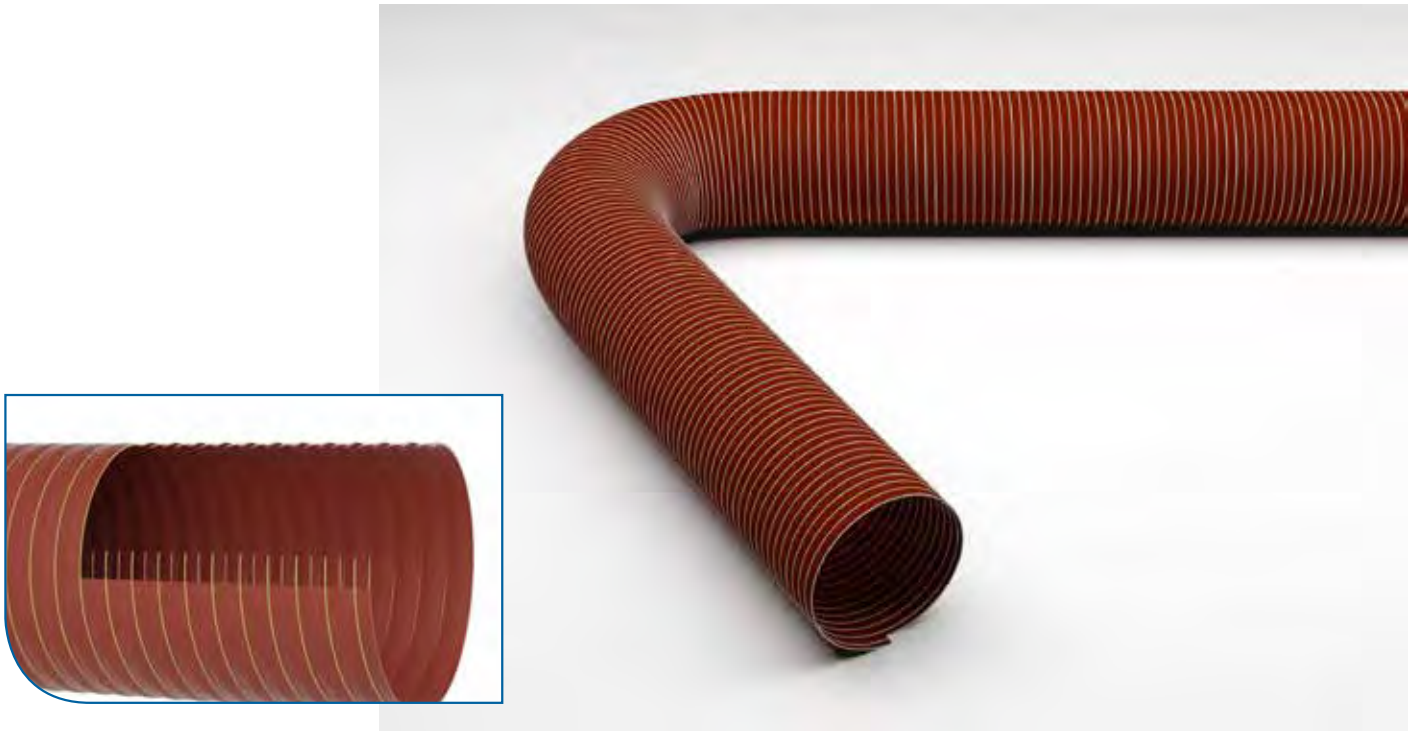
Clip-Grip Hose clamp, screwable



Hose Connector

## Master-SIL 1

Medium and high temperature hose for temperatures up to +250°C



### Material

- ① spiral: spring steel wire
- ② wall: silicone-coated glass-fibre fabric
- ③ cord: fibreglass fabric

### Applications

- chemicals industry
- 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 and ambient temperatures
- automotive manufacturing
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, with spiral-free sleeves, with plastic spirals.

### Properties

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

### Temperature Range

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



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
13	1,7	0,51	8	0,1	685-013-119	4
19	1,6	0,5	8	0,11	685-019-119	4
26	1,6	0,5	8	0,12	685-025-119	4
30	1,4	0,49	10	0,14	685-030-119	4
38	1,3	0,49	12	0,17	685-038-119	4
41	1,3	0,47	13	0,2	685-041-119	4
42	1,2	0,45	14	0,21	685-042-119	4
44	1,2	0,45	14	0,21	685-044-119	4
45	1,2	0,45	14	0,21	685-045-119	4
51	1,2	0,42	16	0,25	685-051-119	4
55	1,1	0,41	18	0,27	685-055-119	4
57	1,1	0,4	18	0,28	685-057-119	4
60	1,1	0,39	20	0,3	685-060-119	4
63	1,1	0,38	22	0,32	685-063-119	4
64	1,1	0,38	22	0,32	685-064-119	4
65	1,1	0,37	22	0,34	685-065-119	4
70	1,1	0,35	24	0,36	685-070-119	4
76	1,1	0,33	27	0,41	685-076-119	4
80	1	0,31	28	0,44	685-080-119	4
83	1	0,3	28	0,46	685-083-119	4
90	1	0,29	29	0,49	685-090-119	4
95	0,9	0,28	32	0,56	685-095-119	4
102	0,9	0,26	35	0,65	685-102-119	4
108	0,9	0,24	38	0,68	685-108-119	4
110	0,9	0,24	38	0,69	685-110-119	4
114	0,9	0,22	40	0,71	685-114-119	4
120	0,8	0,2	43	0,76	685-120-119	4
127	0,8	0,17	46	0,8	685-127-119	4
130	0,8	0,17	47	0,82	685-130-119	4
140	0,7	0,15	48	0,9	685-140-119	4
152	0,7	0,14	51	0,99	685-152-119	4
160	0,6	0,13	53	1,05	685-160-119	4
165	0,6	0,12	55	1,08	685-165-119	4
180	0,6	0,11	60	1,19	685-180-119	4
203	0,5	0,07	68	1,33	685-203-119	4
229	0,4	0,06	84	1,48	685-229-119	4
254	0,4	0,04	102	1,68	685-254-119	4
305	0,2	0,02	123	2,05	685-305-119	4

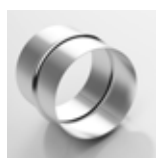
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

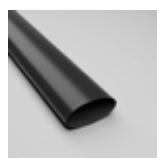
**The new article numbers can be found in the online product data sheets.**



Hose Clamp with Worm-Gear Drive



Hose Connector



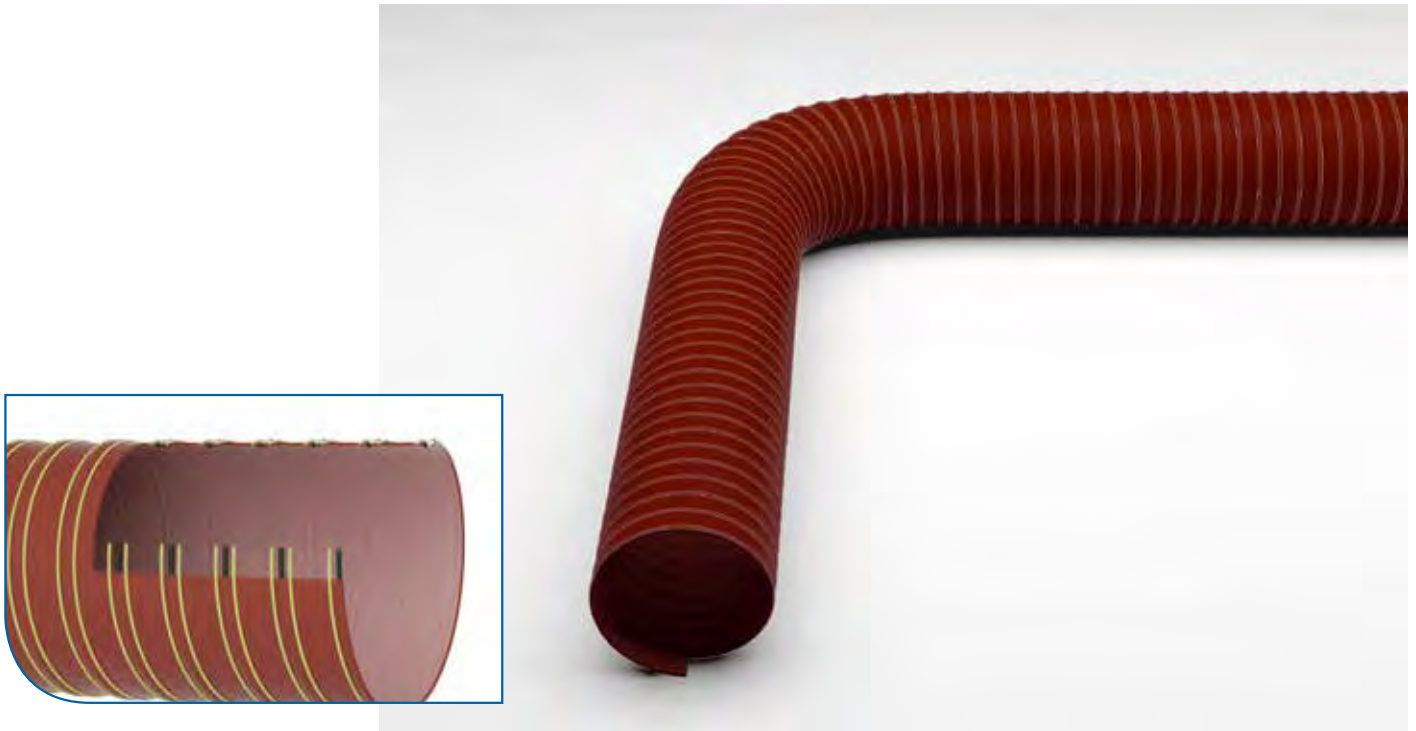
Heat-Shrink Cuff



Hose Reducer, symmetrical

## Master-SIL 2

Medium and high temperature hose for temperatures up to +250°C, two layers



### Material

- ① spiral: spring steel wire
- ② wall: silicone-coated glass-fibre fabric, double-layered
- ③ cord: fibreglass fabric

### Applications

- chemicals industry
- conveyance of air and gaseous media with high nominal and ambient temperatures with greater mechanical requirements
- hot air hose for granulate dryer
- machine and engine manufacturing
- shipbuilding
- plastic processing industry
- waste incineration plants
- automotive manufacturing
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, with spiral-free sleeves, with plastic spirals.

### Properties

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

### Temperature Range

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



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
13	2,8	0,64	15	0,16	686-013-119	4
19	2,8	0,64	15	0,19	686-019-119	4
26	2,8	0,64	15	0,22	686-026-119	4
30	2,8	0,64	15	0,25	686-030-119	4
32	2,8	0,64	16	0,26	686-032-119	4
38	2,6	0,59	18	0,31	686-038-119	4
41	2,6	0,59	19	0,32	686-041-119	4
42	2,6	0,59	19	0,32	686-042-119	4
44	2,6	0,55	21	0,34	686-044-119	4
45	2,6	0,55	21	0,34	686-045-119	4
51	2,6	0,51	24	0,36	686-051-119	4
55	2,5	0,48	27	0,42	686-055-119	4
57	2,5	0,48	28	0,43	686-057-119	4
60	2,4	0,47	31	0,47	686-060-119	4
63	2,4	0,47	31	0,49	686-063-119	4
64	2,4	0,47	31	0,49	686-064-119	4
65	2,4	0,47	31	0,5	686-065-119	4
70	2,3	0,43	35	0,53	686-070-119	4
76	2,2	0,42	38	0,58	686-076-119	4
80	2,1	0,41	40	0,62	686-080-119	4
83	2,1	0,4	42	0,64	686-083-119	4
90	2	0,39	44	0,69	686-090-119	4
95	1,9	0,36	48	0,73	686-095-119	4
102	1,9	0,34	52	0,77	686-102-119	4
108	1,7	0,3	55	0,83	686-108-119	4
110	1,7	0,29	57	0,85	686-110-119	4
114	1,6	0,28	57	0,89	686-114-119	4
120	1,6	0,28	61	0,94	686-120-119	4
127	1,4	0,25	64	1	686-127-119	4
130	1,3	0,23	65	1,02	686-130-119	4
140	1,3	0,19	70	1,11	686-140-119	4
152	1,2	0,17	75	1,2	686-152-119	4
160	1,1	0,15	80	1,28	686-160-119	4
165	1	0,14	83	1,32	686-165-119	4
180	1	0,12	90	1,48	686-180-119	4
203	0,7	0,09	101	1,65	686-203-119	4
229	0,6	0,08	125	1,9	686-229-119	4
254	0,5	0,07	150	2,14	686-254-119	4
305	0,3	0,04	210	2,58	686-305-119	4

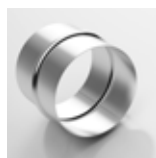
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

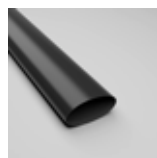
**The new article numbers can be found in the online product data sheets.**



Hose Clamp with Worm-Gear Drive



Hose Connector



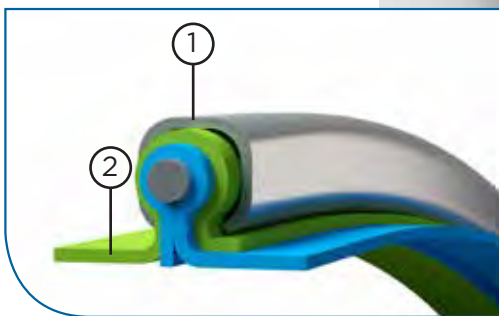
Heat-Shrink Cuff



Hose Reducer, symmetrical

## Master-Clip SILICON

Medium and high temperature hose for temperatures up to +300°C



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: silicone-coated glass-fibre fabric

### Applications

- engine manufacturing
- hot and cold air conveyance
- machine manufacturing
- automotive manufacturing
- low pressure range
- extractor units
- defence systems
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- hardly inflammable
- outer chafing protection spiral
- good temperature resistance
- limited vibration-proof
- extremely compressable to approx. 1:6
- smallest bending radii
- highly flexible
- high tension-proof connection of wall-lining and spiral via special clamp mechanism
- UV/ozone-proof
- extremely lightweight

### Temperature Range

- -60°C to +300°C
- peaks to +350°C\*

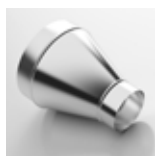


DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
40	0,88	0,37	24	0,4	223-040-116	15
45	0,87	0,35	27	0,4	223-045-116	15
50	0,85	0,31	30	0,4	223-050-116	15
55	0,78	0,26	33	0,4	223-055-116	15
60	0,68	0,22	36	0,5	223-060-116	15
65	0,59	0,19	39	0,5	223-065-116	15
70	0,53	0,16	42	0,5	223-070-116	15
75	0,47	0,14	45	0,6	223-075-116	15
80	0,43	0,12	48	0,6	223-080-116	15
90	0,36	0,1	54	0,6	223-090-116	15
100	0,3	0,08	60	0,6	223-100-116	15
110	0,26	0,07	66	0,7	223-110-116	15
120	0,22	0,06	72	0,7	223-120-116	15
125	0,21	0,05	75	0,8	223-125-116	15
130	0,2	0,05	78	0,8	223-130-116	15
140	0,18	0,04	84	0,8	223-140-116	15
150	0,16	0,04	90	0,9	223-150-116	15
160	0,14	0,03	96	0,9	223-160-116	15
170	0,13	0,03	102	0,9	223-170-116	15
175	0,12	0,03	105	1	223-175-116	15
180	0,12	0,02	108	1	223-180-116	15
200	0,1	0,02	120	1,2	223-200-116	15
215	0,09	0,02	151	1,3	223-215-116	15
225	0,08	0,02	158	1,4	223-225-116	15
250	0,07	0,01	175	1,6	223-250-116	15
275	0,06	0,01	193	1,9	223-275-116	15
300	0,05	0,01	210	2,1	223-300-116	15
315	0,05	0,01	221	2,1	223-315-116	15
325	0,05	0,01	228	2,2	223-325-116	15
350	0,04	0,01	245	2,5	223-350-116	15
375	0,04	0,01	263	2,9	223-375-116	15
400	0,03	0,01	280	3,1	223-400-116	15
450	0,03	0,01	360	3,6	223-450-116	15
500	0,02	0,01	400	4,1	223-500-116	15
550	0,02	0,01	440	4,6	223-550-116	15
600	0,02	0,01	480	5,1	223-600-116	10
700	0,01	0,01	560	6	223-700-116	10
800	0,01	0,01	640	6,9	223-800-116	10
900	0,01	0,01	720	7,8	223-900-116	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 note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



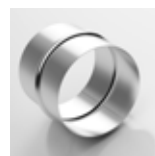
Hose Reducer, symmetrical



Clip-Grip quick action clamp



Clip-Grip Hose clamp, screwable

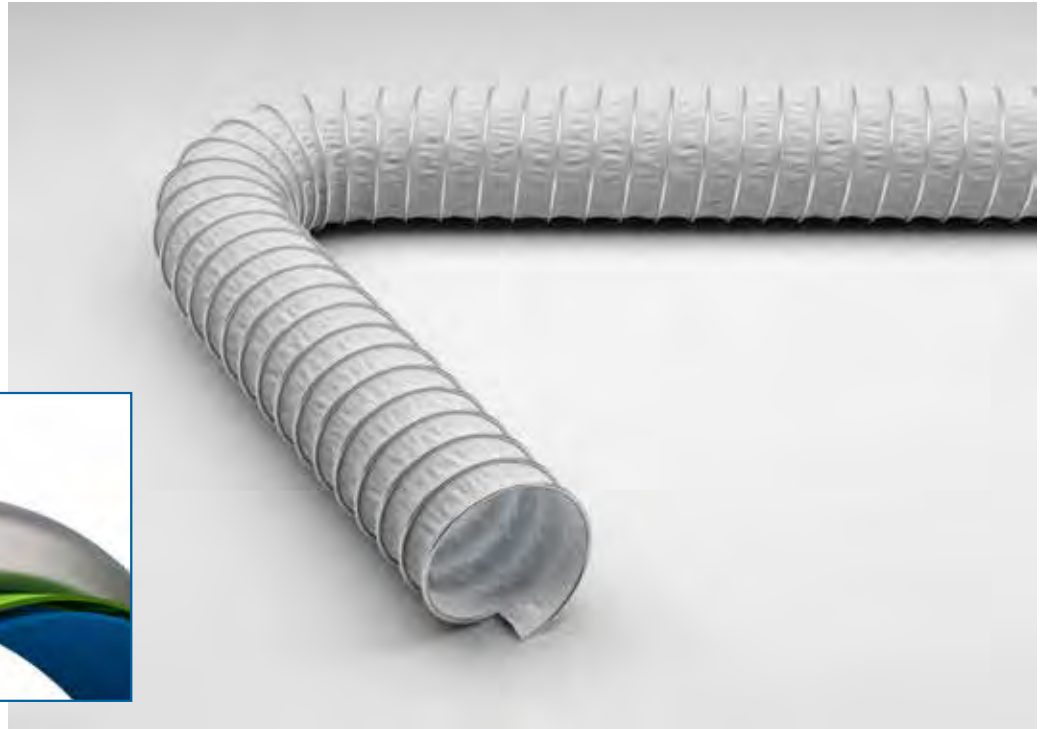
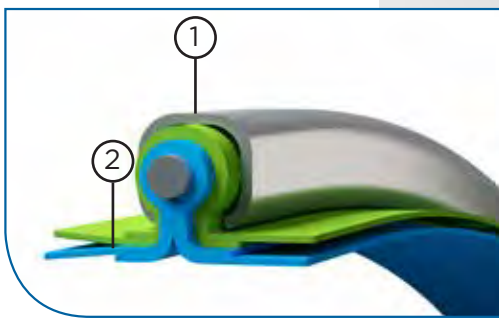


Hose Connector



## Master-Clip ISO-SILICON

Medium and high temperature hose for temperatures up to +300°C, two layers



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 hose wall: two layers
  - inner layer: heat resistant impregnated glass fabric
  - outer layer: Silicon coated glass fabric

### Applications

- engine manufacturing
- hot and cold air conveyance
- extractor units with greater suction performance
- machine manufacturing
- automotive manufacturing
- low pressure range
- defence systems
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- hardly inflammable
- outer chafing protection spiral
- good temperature resistance
- limited vibration-proof
- extremely compressable to approx. 1:4
- super lightweight
- smallest bending radii
- high tension-proof connection of wall-lining and spiral via special clamp mechanism
- UV/ozone-proof

### Temperature Range

- -60°C to +300°C
- peaks to +350°C\*



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
50	0,85	0,38	30	0,5	224-050-116	15
55	0,78	0,31	33	0,5	224-055-116	15
60	0,68	0,26	36	0,6	224-060-116	15
65	0,59	0,22	39	0,6	224-065-116	15
70	0,53	0,19	42	0,6	224-070-116	15
75	0,47	0,17	45	0,7	224-075-116	15
80	0,43	0,15	48	0,7	224-080-116	15
90	0,36	0,12	54	0,7	224-090-116	15
100	0,3	0,09	60	0,7	224-100-116	15
110	0,26	0,08	66	0,8	224-110-116	15
120	0,22	0,07	72	0,8	224-120-116	15
125	0,21	0,06	75	0,9	224-125-116	15
130	0,2	0,06	78	0,9	224-130-116	15
140	0,18	0,05	84	0,9	224-140-116	15
150	0,16	0,04	90	1	224-150-116	15
160	0,14	0,04	96	1	224-160-116	15
170	0,13	0,03	102	1	224-170-116	15
175	0,12	0,03	105	1,1	224-175-116	15
180	0,12	0,03	108	1,1	224-180-116	15
200	0,1	0,02	120	1,3	224-200-116	15
215	0,09	0,02	151	1,4	224-215-116	15
225	0,08	0,02	158	1,6	224-225-116	15
250	0,07	0,02	175	1,8	224-250-116	15
275	0,06	0,01	193	2,1	224-275-116	15
300	0,05	0,01	210	2,3	224-300-116	15
315	0,05	0,01	221	2,3	224-315-116	15
325	0,05	0,01	228	2,4	224-325-116	15
350	0,04	0,01	245	2,8	224-350-116	15
375	0,04	0,01	263	3,2	224-375-116	15
400	0,03	0,01	280	3,4	224-400-116	15
450	0,03	0,01	360	4	224-450-116	15
500	0,02	0,01	400	4,5	224-500-116	15
550	0,02	0,01	440	5,1	224-550-116	10
600	0,02	0,01	480	5,6	224-600-116	10
700	0,01	0,01	560	6,6	224-700-116	10
800	0,01	0,01	640	7,6	224-800-116	10
900	0,01	0,01	720	8,6	224-900-116	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 note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



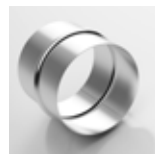
Hose Reducer, symmetrical



Clip-Grip quick action clamp



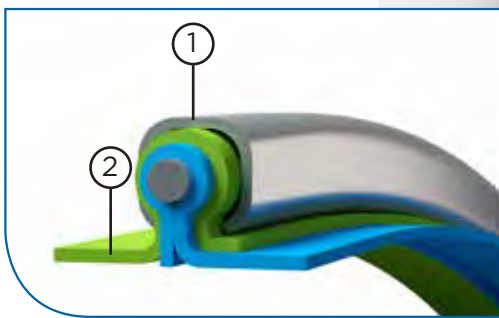
Clip-Grip Hose clamp, screwable



Hose Connector

## Master-Clip HT 300

Medium and high temperature hose up to +300°C, silicon-free, highly flexible



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 Wall: special glass fabric coating

### Applications

- machine manufacturing
- automotive manufacturing
- low pressure range
- extractor units
- exhaust gas extraction (esp. diesel engines)
- hot air
- smoke extractors
- defence systems
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- very good temperature resistance
- hardly inflammable / self-extinguishing
- primarily suitable as exhaust hose
- silicone-free
- hydrolysis-resistant
- No gas emission during commissioning
- light
- extremely compressable to approx. 1:6
- vibration-proof
- smallest bending radii
- highly flexible
- high tension-proof connection of wall-lining and spiral via special clamp mechanism
- UV-resistant acc. to ISO EN 105 B02
- Ozone-resistant

### Temperature Range

- -20°C to +300°C for vacuum applications
- peaks to +350°C\*



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
50	on request	0,39	30	0,4	233-050-102	15
55	on request	0,32	33	0,4	233-055-102	15
60	on request	0,27	36	0,5	233-060-102	15
65	on request	0,23	39	0,5	233-065-102	15
70	on request	0,2	42	0,5	233-070-102	15
75	on request	0,18	45	0,6	233-075-102	15
80	on request	0,15	48	0,6	233-080-102	15
90	on request	0,12	54	0,6	233-090-102	15
100	on request	0,1	60	0,6	233-100-102	15
110	on request	0,08	66	0,7	233-110-102	15
120	on request	0,07	72	0,7	233-120-102	15
125	on request	0,06	75	0,8	233-125-102	15
130	on request	0,07	78	0,8	233-130-102	15
140	on request	0,05	84	0,8	233-140-102	15
150	on request	0,04	90	0,9	233-150-102	15
160	on request	0,09	96	0,9	233-160-102	15
170	on request	0,03	102	0,9	233-170-102	15
175	on request	0,03	105	1	233-175-102	15
180	on request	0,03	108	1	233-180-102	15
200	on request	0,03	120	1,2	233-200-102	15
215	on request	0,02	151	1,3	233-215-102	15
225	on request	0,02	158	1,4	233-225-102	15
250	on request	0,02	175	1,6	233-250-102	15
275	on request	0,01	193	1,9	233-275-102	15
300	on request	0,01	210	2,1	233-300-102	15
325	on request	0,01	228	2,2	233-325-102	15
350	on request	0,01	245	2,5	233-350-102	15
375	on request	0,01	263	2,9	233-375-102	15
400	on request	0,01	280	3,1	233-400-102	15
450	on request	0,01	360	3,6	233-450-102	15
500	on request	0,01	400	4,1	233-500-102	15
550	on request	0,01	440	4,6	233-550-102	10
600	on request	0,01	480	5,1	233-600-102	10
700	on request	0,01	560	6	233-700-102	10
800	on request	0,01	640	6,9	233-800-102	10
900	on request	0,01	720	7,8	233-900-102	10

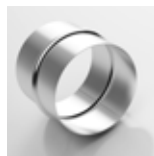
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



Hose Reducer, symmetrical



Hose Connector



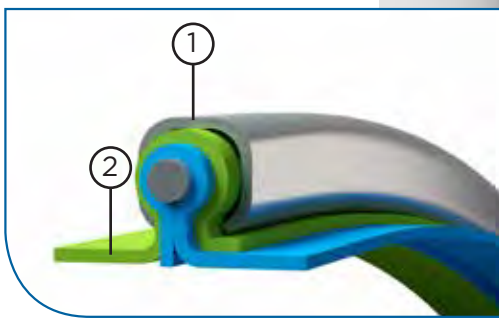
Clip-Grip Hose clamp, screwable



Clip-Grip quick action clamp

## Master-Clip CAR

Medium and high temperature hose for temperatures up to +300°C



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: special-coated textile high-temperature fabric

### Applications

- suction of engine exhaust fumes up to max.+300 °C acc. to exhaust guidelines and sufficient fresh air intake (approx. 50%)
- machine manufacturing
- automotive manufacturing
- low pressure range
- extractor units
- exhaust gas extraction (esp. diesel engines)
- hot air
- smoke extractors
- defence systems
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- hardly inflammable
- very good temperature resistance
- outer chafing protection spiral
- primarily suitable as exhaust hose
- extremely compressable to approx. 1:6
- withstands high mechanical loads
- vibration-proof
- smallest bending radii
- highly flexible
- extremely lightweight
- abrasion-resistant
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- from -60°C to +300 °C (Exhaust temperatures) with appropriate use if exhaust regulators and sufficient air supply (approx. 50%)
- peaks to +350°C\*



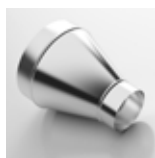
Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
38	0,94	0,36	23	0,5	225-038-120	20
40	0,93	0,35	24	0,5	225-040-120	20
45	0,92	0,33	27	0,5	225-045-120	20
50	0,9	0,31	30	0,5	225-050-120	20
55	0,85	0,26	33	0,6	225-055-120	20
60	0,78	0,22	36	0,6	225-060-120	20
65	0,68	0,19	39	0,7	225-065-120	20
70	0,67	0,16	42	0,7	225-070-120	20
75	0,62	0,14	45	0,8	225-075-120	20
80	0,61	0,12	48	0,8	225-080-120	20
90	0,56	0,1	54	0,8	225-090-120	20
100	0,51	0,08	60	0,9	225-100-120	20
110	0,48	0,07	66	0,9	225-110-120	20
120	0,36	0,06	72	1	225-120-120	20
125	0,33	0,05	75	1	225-125-120	20
130	0,28	0,05	78	1,1	225-130-120	20
140	0,25	0,04	84	1,1	225-140-120	20
150	0,22	0,04	90	1,2	225-150-120	20
160	0,21	0,03	96	1,2	225-160-120	20
170	0,19	0,03	102	1,3	225-170-120	20
175	0,19	0,03	105	1,4	225-175-120	20
180	0,17	0,02	126	1,4	225-180-120	20
200	0,14	0,02	140	1,6	225-200-120	20
215	0,13	0,02	151	1,7	225-215-120	20
225	0,12	0,02	158	1,8	225-225-120	20
250	0,1	0,01	175	2	225-250-120	20
275	0,08	0,01	193	2,1	225-275-120	20
300	0,07	0,01	210	2,2	225-300-120	20
315	0,06	0,01	221	2,2	225-315-120	20
325	0,06	0,01	228	2,3	225-325-120	20
350	0,06	0,01	245	2,6	225-350-120	20
375	0,05	0,01	300	2,9	225-375-120	20
400	0,05	0,01	320	3,1	225-400-120	20
450	0,05	0,01	360	3,6	225-450-120	20
500	0,04	0,01	400	4,1	225-500-120	20
550	0,04	0,01	440	4,6	225-550-120	20
600	0,04	0,01	480	5,1	225-600-120	15
700	0,03	0,01	560	6	225-700-120	15
800	0,02	0,01	640	6,9	225-800-120	15
900	0,02	0,01	720	7,8	225-900-120	15

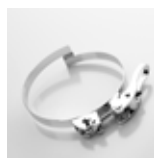
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



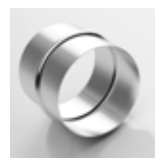
Hose Reducer, symmetrical



Clip-Grip quick action clamp



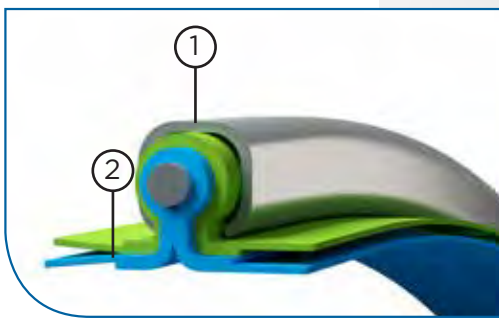
Clip-Grip Hose clamp, screwable



Hose Connector

## Master-Clip ISO-CAR

Medium and high temperature hose for temperatures up to +300°C, two layers



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: double-layered, inner layer with heat resistant impregnated glass fabric, outer layer special-coated, textile high-temperature fabric

### Applications

- suction of engine exhaust fumes up to max.+300 °C acc. to exhaust guidelines and sufficient fresh air intake (approx. 50%)
- diesel engine test-benches with higher extraction performance
- machine manufacturing
- automotive manufacturing
- low pressure range
- extractor units
- hot air
- smoke extractors
- defence systems
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- very good temperature resistance
- outer chafing protection spiral
- primarily suitable as exhaust hose
- good vacuum resistance
- extremely compressable to approx. 1:4
- withstands high mechanical loads
- vibration-proof
- smallest bending radii
- highly flexible
- abrasion-resistant
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- from -60°C to +300 °C (Exhaust temperatures) with appropriate use if exhaust regulators and sufficient air supply (approx. 50%)
- peaks to +350°C\*

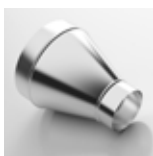


DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
38	0,94	0,44	23	0,55	226-038-120	20
40	0,93	0,43	24	0,55	226-040-120	20
45	0,92	0,41	27	0,6	226-045-120	20
50	0,9	0,38	30	0,6	226-050-120	20
55	0,85	0,33	33	0,7	226-055-120	20
60	0,78	0,29	36	0,7	226-060-120	20
65	0,67	0,26	39	0,8	226-065-120	20
70	0,67	0,22	42	0,9	226-070-120	20
75	0,62	0,21	45	1	226-075-120	20
80	0,61	0,19	48	1	226-080-120	20
90	0,56	0,16	54	1,2	226-090-120	20
100	0,51	0,13	60	1,3	226-100-120	20
110	0,48	0,11	66	1,3	226-110-120	20
120	0,36	0,09	72	1,4	226-120-120	20
125	0,33	0,08	75	1,4	226-125-120	20
130	0,28	0,08	78	1,6	226-130-120	20
140	0,25	0,07	84	1,6	226-140-120	20
150	0,22	0,06	90	1,8	226-150-120	20
160	0,21	0,05	96	1,8	226-160-120	20
170	0,19	0,05	102	2	226-170-120	20
175	0,19	0,04	105	2,1	226-175-120	20
180	0,17	0,04	126	2,1	226-180-120	20
200	0,15	0,03	140	2,4	226-200-120	20
215	0,13	0,03	151	1,9	226-215-120	20
225	0,12	0,03	158	2	226-225-120	20
250	0,1	0,02	175	2,2	226-250-120	20
275	0,08	0,02	193	2,3	226-275-120	20
300	0,07	0,02	210	2,4	226-300-120	20
325	0,06	0,01	228	2,5	226-325-120	20
350	0,06	0,01	245	2,9	226-350-120	20
375	0,05	0,01	300	3,2	226-375-120	20
400	0,05	0,01	320	3,4	226-400-120	20
450	0,05	0,01	360	4	226-450-120	20
500	0,04	0,01	400	4,5	226-500-120	20
550	0,04	0,01	440	5,1	226-550-120	20
600	0,04	0,01	480	5,6	226-600-120	15
700	0,03	0,01	560	6,6	226-700-120	15
800	0,02	0,01	640	7,6	226-800-120	15
900	0,02	0,01	720	8,6	226-900-120	15

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 note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



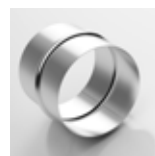
Hose Reducer, symmetrical



Clip-Grip quick action clamp



Clip-Grip Hose clamp, screwable

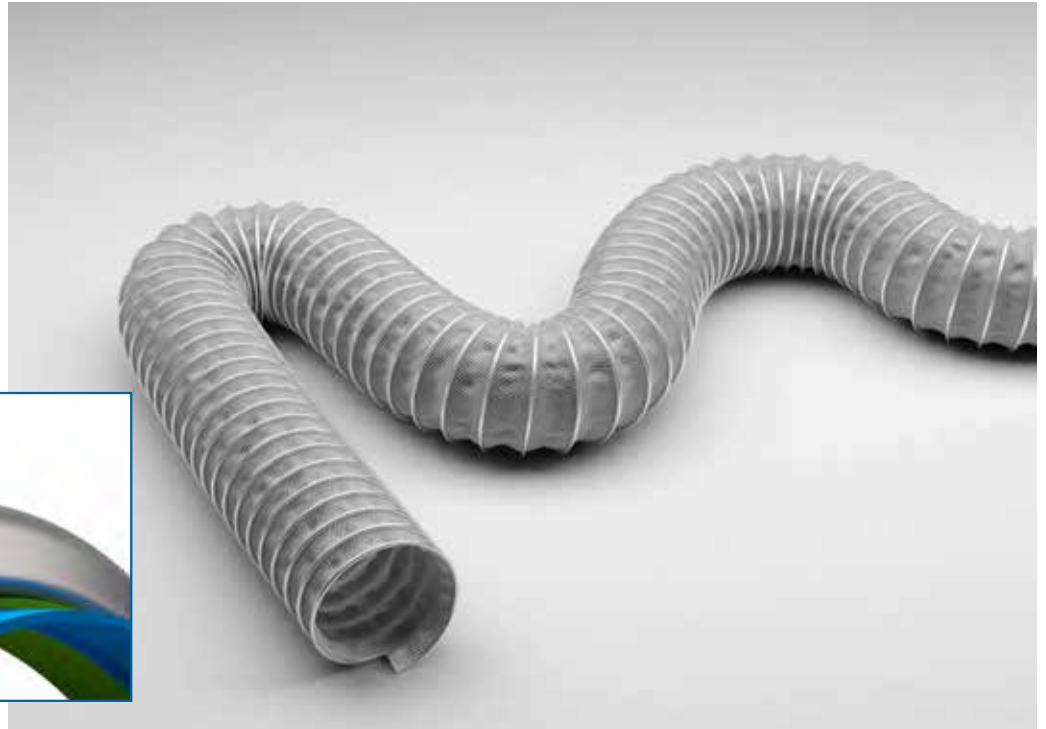
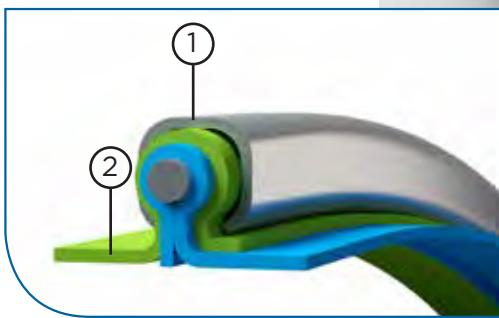


Hose Connector



## Master-Clip HT 400

Medium and high temperature hose for temperatures up to +400°C



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: special-coated high-temperature fabric, reinforced with integrated VA wire

### Applications

- oven manufacturing
- heat protection
- mining and steel industry
- primarily suitable as suction hose
- limited suitability for exhaust fume extraction
- machine manufacturing
- low pressure range
- extractor units
- hot air
- smoke extractors

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- very good temperature resistance
- outer chafing protection spiral
- increased vacuum resistance via integrated reinforcement components
- silicone-free
- limited suitability for long-term kink movements
- extremely compressible to approx. 1:6
- smallest bending radii
- extremely lightweight
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- -20°C to +400°C for vacuum applications
- peaks to +450°



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
38	on request	0,4	23	0,5	227-038-111	20
40	on request	0,39	24	0,5	227-040-111	20
45	on request	0,37	27	0,5	227-045-111	20
50	on request	0,35	30	0,5	227-050-111	20
55	on request	0,29	33	0,6	227-055-111	20
60	on request	0,24	36	0,6	227-060-111	20
65	on request	0,21	39	0,7	227-065-111	20
70	on request	0,17	42	0,7	227-070-111	20
75	on request	0,15	45	0,8	227-075-111	20
80	on request	0,14	48	0,8	227-080-111	20
90	on request	0,11	54	0,8	227-090-111	20
100	on request	0,09	60	0,8	227-100-111	20
110	on request	0,07	66	0,9	227-110-111	20
120	on request	0,06	72	0,9	227-120-111	20
125	on request	0,05	75	1	227-125-111	20
130	on request	0,05	78	1	227-130-111	20
140	on request	0,05	84	1	227-140-111	20
150	on request	0,04	90	1,1	227-150-111	20
160	on request	0,03	96	1,1	227-160-111	20
170	on request	0,03	102	1,1	227-170-111	20
175	on request	0,03	105	1,3	227-175-111	20
180	on request	0,03	108	1,3	227-180-111	20
200	on request	0,02	120	1,5	227-200-111	20
215	on request	0,02	151	1,6	227-215-111	20
225	on request	0,02	158	1,8	227-225-111	20
250	on request	0,02	175	2	227-250-111	20
275	on request	0,01	193	2,4	227-275-111	20
300	on request	0,01	210	2,6	227-300-111	20
325	on request	0,01	228	2,8	227-325-111	20
350	on request	0,01	245	3,1	227-350-111	20
375	on request	0,01	263	3,6	227-375-111	20
400	on request	0,01	280	3,9	227-400-111	20
450	on request	0,01	360	4,5	227-450-111	20
500	on request	0,01	400	5,1	227-500-111	20
550	on request	0,01	440	5,8	227-550-111	20
600	on request	0,01	480	6,4	227-600-111	15
700	on request	0,01	560	7,5	227-700-111	15
800	on request	0,01	640	8,6	227-800-111	15
900	on request	0,01	720	9,8	227-900-111	15

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 note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



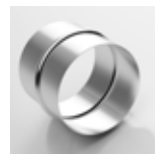
Hose Reducer, symmetrical



Clip-Grip quick action clamp



Clip-Grip Hose clamp, screwable



Hose Connector

## Master-Clip KAPTON®

Medium and high temperature hose for temperatures up to +400°C, excellent chemical resistance



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: one-sided KAPTON®-clad glass fabric

### Applications

- suction of aggressive gases at high temperatures
- exhaust gas routing in gauge pressure and low pressure range
- vehicle and engine manufacturing
- exhaust gas extraction for high-performance engine test-benches in the automotive industry

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- very good temperature resistance
- very good chemical resistance (similar to Master-Clip PTFE hoses, but with much greater temperature range)
- good vacuum resistance
- high gas resistance in low pressure/vacuum range
- outer chafing protection spiral
- smallest bending radii
- highly flexible
- extremely lightweight
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- -260°C to +400°C



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
50	0,9	0,37	30	0,8	253-050-110	15
55	0,82	0,33	33	0,8	253-055-110	15
60	0,7	0,3	36	0,8	253-060-110	15
65	0,63	0,28	39	0,9	253-065-110	15
70	0,55	0,25	42	0,9	253-070-110	15
75	0,5	0,24	45	0,9	253-075-110	15
80	0,45	0,21	48	1	253-080-110	15
90	0,4	0,2	54	1	253-090-110	15
100	0,35	0,16	60	1	253-100-110	15
110	0,3	0,13	66	1,1	253-110-110	15
120	0,28	0,11	72	1,1	253-120-110	15
125	0,27	0,1	75	1,3	253-125-110	15
130	0,26	0,09	78	1,3	253-130-110	15
140	0,2	0,08	84	1,3	253-140-110	15
150	0,17	0,07	90	1,4	253-150-110	15
160	0,16	0,06	96	1,4	253-160-110	15
170	0,16	0,06	102	1,4	253-170-110	15
175	0,15	0,05	105	1,6	253-175-110	15
180	0,13	0,05	108	1,6	253-180-110	15
200	0,12	0,04	120	1,8	253-200-110	15
215	0,12	0,04	151	2	253-215-110	15
225	0,11	0,03	158	2,2	253-225-110	15
250	0,1	0,03	175	2,5	253-250-110	15
275	0,09	0,02	193	2,9	253-275-110	15
300	0,08	0,02	210	3,2	253-300-110	15
315	0,07	0,02	221	3,3	253-315-110	15
325	0,06	0,02	228	3,5	253-325-110	15
350	0,05	0,01	245	3,9	253-350-110	15
375	0,04	0,01	263	4,4	253-375-110	15
400	0,04	0,01	280	4,9	253-400-110	15
450	0,03	0,01	360	5,7	253-450-110	10
500	0,03	0,01	400	6,5	253-500-110	10
550	0,03	0,01	440	7,3	253-550-110	10
600	0,02	0,01	480	8,2	253-600-110	10
700	0,01	0,01	560	9,6	253-700-110	10
800	0,01	0,01	640	11	253-800-110	10
900	0,01	0,01	720	12,5	253-900-110	10

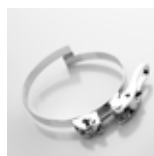
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



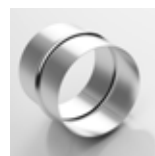
Hose Reducer, symmetrical



Clip-Grip quick action clamp



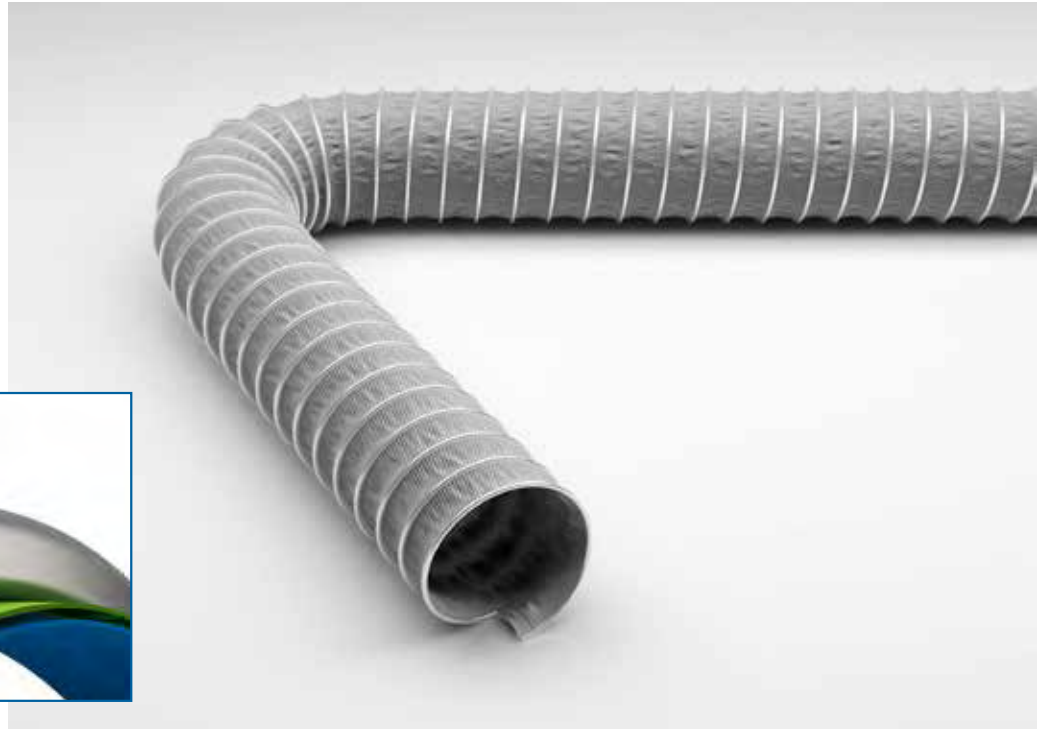
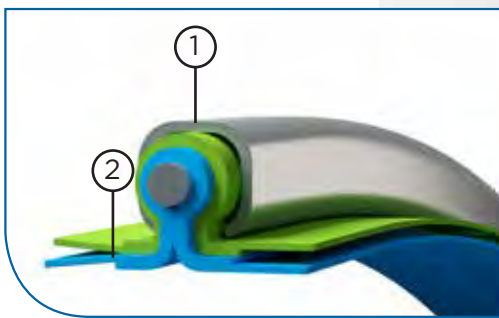
Clip-Grip Hose clamp, screwable



Hose Connector

## Master-Clip HT 450

Exhaust gas hose for exhaust gas temperatures up to +450°C, two layers



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: double-layered, inner layer with heat resistant impregnated glass fabric and outer layer with special-coated high-temperature fabric reinforced with integrated VA wire

### Applications

- diesel engine test-benches with higher extraction performance
- hot air conveyance
- engine manufacturing
- exhaust gas extraction
- machine manufacturing
- automotive manufacturing
- low pressure range
- smoke extractors
- defence systems
- aircraft manufacturing

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- extremely flexible
- hardly inflammable
- very good temperature resistance
- primarily suitable as exhaust hose
- increased vacuum resistance via integrated reinforcement components
- outer chafing protection spiral
- small bending radii
- withstands high mechanical loads
- super lightweight
- abrasion-resistant
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- peaks to +500°C
- -20°C to +450°C for vacuum applications



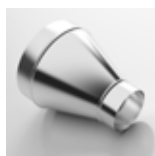
Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
50	on request	0,35	30	0,59	231-050-111	15
55	on request	0,29	33	0,65	231-055-111	15
60	on request	0,24	36	0,63	231-060-111	15
65	on request	0,21	39	0,68	231-065-111	15
70	on request	0,17	42	0,73	231-070-111	15
75	on request	0,15	45	0,78	231-075-111	15
80	on request	0,14	48	0,83	231-080-111	15
90	on request	0,11	54	0,93	231-090-111	15
100	on request	0,09	60	1,2	231-100-111	15
110	on request	0,07	66	1,31	231-110-111	15
120	on request	0,06	72	1,43	231-120-111	15
125	on request	0,05	75	1,48	231-125-111	15
130	on request	0,05	78	1,54	231-130-111	15
140	on request	0,05	84	1,65	231-140-111	15
150	on request	0,04	90	1,76	231-150-111	15
160	on request	0,03	96	1,87	231-160-111	15
170	on request	0,03	102	1,99	231-170-111	15
175	on request	0,03	105	2,04	231-175-111	15
180	on request	0,03	108	2,1	231-180-111	15
200	on request	0,02	120	2,32	231-200-111	15
215	on request	0,02	151	2,78	231-215-111	15
225	on request	0,02	158	2,9	231-225-111	15
250	on request	0,02	175	3,21	231-250-111	15
275	on request	0,01	193	3,52	231-275-111	15
300	on request	0,01	210	3,83	231-300-111	15
315	on request	0,01	221	4,01	231-315-111	15
325	on request	0,01	228	4,14	231-325-111	15
350	on request	0,01	245	4,45	231-350-111	15
375	on request	0,01	263	4,78	231-375-111	15
400	on request	0,01	280	5,09	231-400-111	15
450	on request	0,01	360	5,71	231-450-111	15
500	on request	0,01	400	6,33	231-500-111	15
550	on request	0,01	440	6,94	231-550-111	10
600	on request	0,01	480	7,56	231-600-111	10
700	on request	0,01	560	8,8	231-700-111	10
800	on request	0,01	640	10,03	231-800-111	10
900	on request	0,01	720	11,27	231-900-111	10

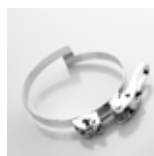
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



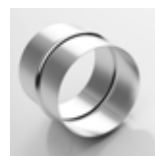
Hose Reducer, symmetrical



Clip-Grip quick action clamp



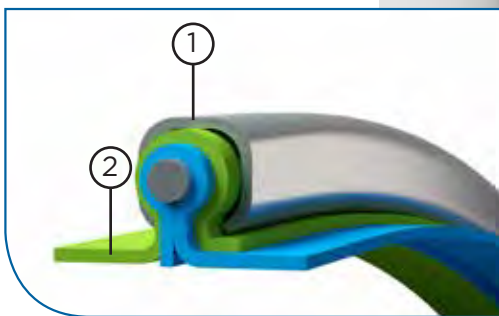
Clip-Grip Hose clamp, screwable



Hose Connector

## Master-Clip HT 500

Medium- and high temperature hose for temperatures up to +500°C



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: special-coated high-temperature fabric, one-sided clad with stainless steel foil

### Applications

- exhaust gas routing in gauge pressure and low pressure range
- vehicle and engine manufacturing
- exhaust gas extraction in automotive industry with higher temperature demands

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- very good temperature resistance
- outer chafing protection spiral
- flame-resistant
- flexible
- limited suitability for long-term kink movements
- good vacuum resistance
- high gas resistance in low pressure/vacuum range
- non-flammable
- small bending radii
- extremely lightweight
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- -20°C to +500°C
- peaks to +550°C

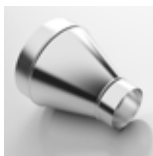


Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
75	0,62	0,25	45	1,44	228-075-119	10
80	0,61	0,22	48	1,53	228-080-119	10
90	0,56	0,21	54	1,72	228-090-119	10
100	0,51	0,17	60	1,98	228-100-119	10
110	0,48	0,14	66	2,17	228-110-119	10
120	0,36	0,12	72	2,2	228-120-119	10
125	0,33	0,1	75	2,45	228-125-119	10
130	0,28	0,1	78	2,54	228-130-119	10
140	0,25	0,09	84	2,73	228-140-119	10
150	0,22	0,08	90	2,92	228-150-119	10
160	0,21	0,07	96	3,11	228-160-119	10
170	0,19	0,06	102	3,33	228-170-119	10
175	0,185	0,06	105	3,43	228-175-119	10
180	0,17	0,05	108	3,52	228-180-119	10
200	0,15	0,04	120	3,9	228-200-119	10
215	0,12	0,04	151	3,12	228-215-119	10
225	0,12	0,03	158	3,26	228-225-119	10
250	0,1	0,03	175	3,62	228-250-119	10
275	0,08	0,02	193	3,97	228-275-119	10
300	0,07	0,02	210	4,32	228-300-119	10
315	0,06	0,02	221	4,53	228-315-119	10
325	0,06	0,02	228	4,67	228-325-119	10
350	0,6	0,02	245	5,03	228-350-119	10
375	0,05	0,01	263	5,41	228-375-119	10
400	0,05	0,01	280	5,76	228-400-119	10
450	0,05	0,01	360	6,46	228-450-119	6
500	0,04	0,01	400	7,17	228-500-119	6
550	0,04	0,01	440	7,87	228-550-119	6
600	0,04	0,01	480	8,58	228-600-119	6
700	0,03	0,01	560	9,98	228-700-119	6
800	0,02	0,01	640	11,39	228-800-119	6
900	0,02	0,01	720	12,8	228-900-119	6

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 note the changed article numbers.  
 The new article numbers can be found in the online product data sheets.**



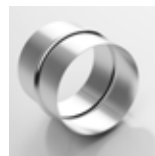
Hose Reducer, symmetrical



Clip-Grip quick action clamp



Clip-Grip Hose clamp, screwable



Hose Connector

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## Master-Clip HTP 500

Exhaust gas hose for exhaust gas temperatures up to +500°C



### Material

- 1 clip profile spiral: hot-dip galvanised steel band
- 2 wall: double hose made of special-coated high-temperature fabrics with additional reinforcements and diffusion barriers

### Applications

- exhaust gas routing in gauge pressure range for combustion engines of all types
- manipulators
- compressors
- engine test-benches
- generators

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- pressure resistant to max. 0.3 bar at +500°C
- good structure-borne noise insulation
- temperature resistant to +500 °C
- flexible
- vibration-proof

### Temperature Range

- -20°C to +500°C



Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	bend radius mm	outer Ø mm	weight/m kg	article no.	max. production length m
80	0,3	200	104	2,88	243-080-119	3
100	0,25	250	124	3,55	243-100-119	3
125	0,2	310	149	4,59	243-125-119	3
150	0,15	375	174	5,12	243-150-119	3
200	0,1	500	224	6,41	243-200-119	3
250	0,07	625	274	7,96	243-250-119	3
300	0,05	750	324	9,49	243-300-119	3

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 note the changed article numbers.  
 The new article numbers can be found in the online product data sheets.**



Clip-Grip quick action clamp

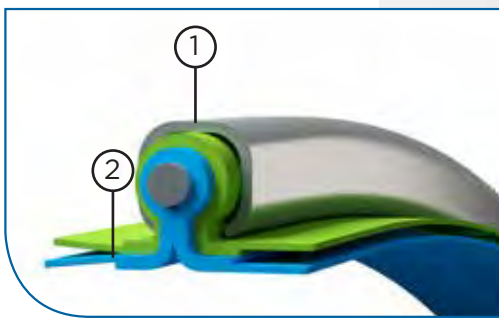


Clip-Grip Hose clamp, screwable

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## Master-Clip HT 650

Medium- and high temperature hose for temperatures up to +650°C



### Material

- ① clip profile spiral: hot-dip galvanised steel band
- ② wall: double-layered, inner and outer layers with special-coated high-temperature fabric reinforced with integrated VA wire

### Applications

- oven manufacturing
- exhaust gas extraction for high-performance engine test-benches in the automotive industry
- automotive and aircraft industry
- shipbuilding industry
- infrared drying units
- heat protection
- mining and steel industry
- machine manufacturing
- smoke extractors

### Available on request

- available on request in other lengths, sizes, colours, spiral intervals, with stainless steel spirals.

### Properties

- very good temperature resistance
- outer chafing protection spiral
- flame-resistant
- increased vibration resistance via integrated reinforcement components
- silicone-free
- flexible
- limited suitability for long-term kink movements
- good vacuum resistance
- axial compressable
- small bending radii
- withstands high mechanical loads
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- -20°C to +650°C for vacuum applications
- peaks to +750°C



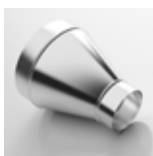
Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
50	on request	0,39	30	1,1	229-050-111	15
55	on request	0,34	33	1,19	229-055-111	15
60	on request	0,31	36	1,29	229-060-111	15
65	on request	0,29	39	1,38	229-065-111	15
70	on request	0,26	42	1,47	229-070-111	15
75	on request	0,25	45	1,57	229-075-111	15
80	on request	0,22	48	1,66	229-080-111	15
90	on request	0,21	54	1,85	229-090-111	15
100	on request	0,17	60	1,57	229-100-111	15
110	on request	0,14	66	1,71	229-110-111	15
120	on request	0,12	72	1,85	229-120-111	15
125	on request	0,1	75	1,93	229-125-111	15
130	on request	0,1	78	2	229-130-111	15
140	on request	0,09	84	2,14	229-140-111	15
150	on request	0,08	90	2,29	229-150-111	15
160	on request	0,07	96	2,43	229-160-111	15
170	on request	0,06	102	2,57	229-170-111	15
175	on request	0,06	105	2,65	229-175-111	15
180	on request	0,05	108	2,72	229-180-111	15
200	on request	0,04	120	3,01	229-200-111	15
215	on request	0,04	151	3,22	229-215-111	15
225	on request	0,03	158	3,36	229-225-111	15
250	on request	0,03	175	3,72	229-250-111	15
275	on request	0,02	193	4,08	229-275-111	15
300	on request	0,02	210	4,44	229-300-111	15
315	on request	0,02	221	4,66	229-315-111	15
325	on request	0,02	228	4,8	229-325-111	15
350	on request	0,02	245	5,16	229-350-111	15
375	on request	0,01	263	5,55	229-375-111	15
400	on request	0,01	280	5,91	229-400-111	15
450	on request	0,01	360	6,63	229-450-111	15
500	on request	0,01	400	7,35	229-500-111	15
550	on request	0,01	440	8,07	229-550-111	10
600	on request	0,01	480	8,79	229-600-111	10
700	on request	0,01	560	10,23	229-700-111	10
800	on request	0,01	640	11,67	229-800-111	10
900	on request	0,01	720	13,11	229-900-111	10

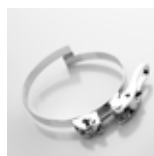
All data refers to a medium and ambient temperature of +20 °C  
 \* Refers to the inner hose lining  
 Subject to technical changes and colour deviations.

**Please note the changed article numbers.**

**The new article numbers can be found in the online product data sheets.**



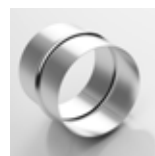
Hose Reducer, symmetrical



Clip-Grip quick action clamp



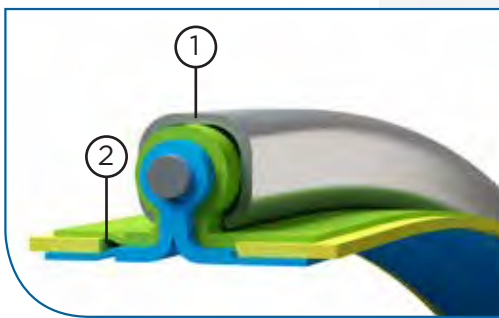
Clip-Grip Hose clamp, screwable



Hose Connector

## Master-Clip HT 100

Medium- and high temperature hose for temperatures up to +1100°C



### Material

- 1 clamp profile spiral: VA steel band (1.4512)
- 2 wall: three-layered, inner layer: stainless steel wire fabric, outer layer: high-temperature, special-coated with heat stabilisers reinforced with VA wire, intermediate layer: thermo-textile fabric

### Applications

- oven manufacturing
- automotive and aircraft industry
- shipbuilding industry
- heat protection
- mining and steel industry
- exhaust gas extraction for high performance test-benches in the automotive industry
- suction/extraction of turbojet engine exhaust fumes
- exhaust gas extraction for larger capacity engines
- extreme temperature demands
- suction during spark formation
- machine manufacturing
- defence systems

### Available on request

- available on request in other lengths, sizes, colours and spiral intervals

### Properties

- very good temperature resistance
- outer chafing protection spiral
- flame-resistant
- silicone-free
- flexible
- limited suitability for long-term kink movements
- small bending radii
- high tension-proof connection of wall-lining and spiral via special clamp mechanism

### Temperature Range

- -20°C to +1100°C for vacuum applications

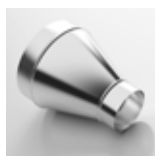


Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN	op. pressure bar	vacuum bar	bend radius mm	weight/m kg	article no.	max. production length m
75	on request	0,3	45	1,68	230-075-111	15
80	on request	0,27	48	1,78	230-080-111	15
90	on request	0,25	54	1,99	230-090-111	15
100	on request	0,2	60	1,78	230-100-111	15
110	on request	0,16	66	1,94	230-110-111	15
120	on request	0,14	72	2,11	230-120-111	15
125	on request	0,12	75	2,19	230-125-111	15
130	on request	0,12	78	2,27	230-130-111	15
140	on request	0,1	84	2,44	230-140-111	15
150	on request	0,09	90	2,6	230-150-111	15
160	on request	0,08	96	2,77	230-160-111	15
170	on request	0,07	102	2,93	230-170-111	15
175	on request	0,07	105	3,02	230-175-111	15
180	on request	0,06	126	3,1	230-180-111	15
200	on request	0,05	140	3,43	230-200-111	15
215	on request	0,05	151	3,68	230-215-111	10
225	on request	0,04	158	3,84	230-225-111	10
250	on request	0,03	175	4,25	230-250-111	10
275	on request	0,03	193	4,67	230-275-111	10
300	on request	0,02	210	5,08	230-300-111	10
315	on request	0,02	221	5,33	230-315-111	10
325	on request	0,02	228	5,49	230-325-111	10
350	on request	0,02	245	5,9	230-350-111	10
375	on request	0,02	300	6,35	230-375-111	10
400	on request	0,01	320	6,76	230-400-111	10
450	on request	0,01	360	7,59	230-450-111	10
500	on request	0,01	400	8,41	230-500-111	10
550	on request	0,01	440	9,24	230-550-111	10
600	on request	0,01	480	10,06	230-600-111	10
700	on request	0,01	560	11,72	230-700-111	10
800	on request	0,01	640	13,37	230-800-111	10
900	on request	0,01	720	15,02	230-900-111	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 note the changed article numbers.  
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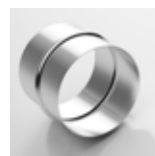
Hose Reducer, symmetrical



Clip-Grip quick action clamp



Clip-Grip Hose clamp, screwable



Hose Connector