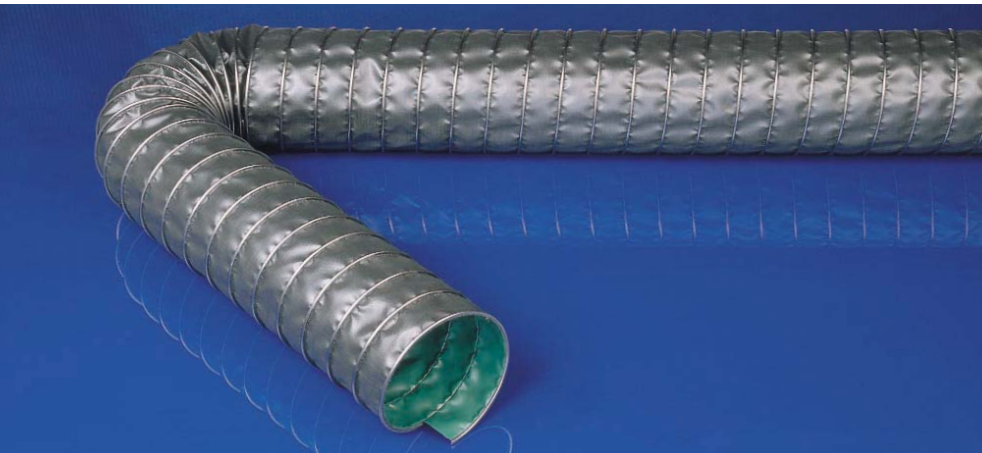


MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +350°F



5.1.2

MASTER-CLIP HYPALON

Material

hose wall: Hypalon-coated polyester fabric
external helix: galvanized steel

Applications

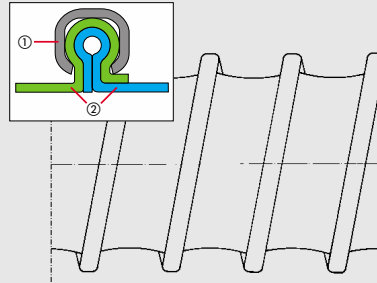
- ducting of hot and cold air
- granule dryers
- air condition
- low pressure applications
- standard hose for industry
- vehicle construction
- engine construction
- exhaust equipment
- extraction of aggressive media
- suction plants

Properties

- improved temperature resistance
- flame resistant
- excellent chemical resistance
- UV- and ozone-resistant
- highly flexible
- extreme compressibility 1:6
- small bend radius
- vibration proof
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- external helix
- hose wall: hypalon-coated polyester fabric



Temperature Range

- 40°F up to +350°F
- intermittent to +375°F

Chem. Resistance

see resistance table register no. 15

Technical Data, custom designs and forms of delivery see back page

 **Masterduct**
Member of the Masterflex-Group

MASTER-CLIP HYPALON

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
1.52	378	192	0.92	0.2684	221-038-107
1.60	374	188	0.96	0.2684	221-040-107
1.80	370	176	1.08	0.2684	221-045-107
2.00	362	160	1.20	0.2684	221-050-107
2.20	342	132	1.32	0.2684	221-055-107
2.40	313	111	1.44	0.3355	221-060-107
2.60	273	95	1.56	0.3355	221-065-107
2.80	269	82	1.68	0.3355	221-070-107
3.00	249	71	1.80	0.4026	221-075-107
3.20	245	62	1.92	0.4026	221-080-107
3.60	225	49	2.16	0.4026	221-090-107
4.00	205	40	2.40	0.4026	221-100-107
4.40	193	33	2.64	0.4697	221-110-107
4.80	145	28	2.88	0.4697	221-120-107
5.00	133	26	3.00	0.5368	221-125-107
5.20	113	24	3.12	0.5368	221-130-107
5.60	100	20	3.36	0.5368	221-140-107
6.00	88	18	3.60	0.6039	221-150-107
6.40	84	16	3.84	0.6039	221-160-107
6.80	76	14	4.08	0.6039	221-170-107
7.00	74	13	4.20	0.6710	221-175-107
7.20	69	12	4.32	0.6710	221-180-107
8.00	59	10	4.80	0.8052	221-200-107
8.60	51	9	6.04	0.8723	221-215-107
9.00	46	8	6.32	0.9394	221-225-107
10.00	40	6	7.00	1.0736	221-250-107
11.00	32	5	7.72	1.2749	221-275-107
12.00	28	4	8.40	1.4091	221-300-107
12.60	25	4	8.84	1.4091	221-315-107
13.00	24	4	9.12	1.4762	221-325-107
14.00	23	3	9.80	1.6775	221-350-107
15.00	20	3	10.52	1.9459	221-375-107
16.00	19	3	11.20	2.0801	221-400-107
18.00	18	2	14.40	2.4156	221-450-107
20.00	17	2	16.00	2.7511	221-500-107
22.00	17	1	17.60	3.0866	221-550-107
24.00	16	1	19.20	3.4221	221-600-107
28.00	12	1	22.40	4.0260	221-700-107
32.00	9	1	25.60	4.6299	221-800-107
36.00	6	1	28.80	5.2338	221-900-107

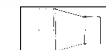
* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

Delivery forms:

Standard production:

- Dia. 1.52" - 36"
- Color outside black / inside green
- Production lengths 10', 25'

Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes
- external helix also in stainless steel or aluminium



Pacific Air Consultants, Inc.

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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +410°F



5.1.3

MASTER-CLIP VITON

Material

hose wall: Viton-coated polyester fabric

external helix: galvanized steel

Applications

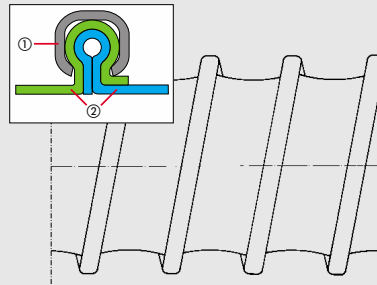
- extraction of aggressive media at medium temperatures
- low pressure applications
- chemical plants
- paint-spray extraction

Properties

- high temperature resistance
- excellent chemical resistance
- UV- and ozone-resistant
- kink-proof
- highly flexible
- extreme compressibility 1:6
- small bend radius
- vibration proof
- tear resistant
- smooth inner hose wall
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall: Viton-coated polyester fabric



Temperature Range

- -15°F up to +410°F
- intermittent to +465°F

Chem. Resistance

see resistance table register no. 15

Technical Data, custom designs and forms of delivery see back page



MASTER-CLIP VITON

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
1.52	378	192	0.92	0.2684	222-038-119
1.60	374	188	0.96	0.2684	222-040-119
1.80	370	176	1.08	0.2684	222-045-119
2.00	362	160	1.20	0.2684	222-050-119
2.20	342	132	1.32	0.2684	222-055-119
2.40	313	111	1.44	0.3355	222-060-119
2.60	273	95	1.56	0.3355	222-065-119
2.80	269	82	1.68	0.3355	222-070-119
3.00	249	71	1.80	0.4026	222-075-119
3.20	245	62	1.92	0.4026	222-080-119
3.60	225	49	2.16	0.4026	222-090-119
4.00	205	40	2.40	0.4026	222-100-119
4.40	193	33	2.64	0.4697	222-110-119
4.80	145	28	2.88	0.4697	222-120-119
5.00	133	26	3.00	0.5368	222-125-119
5.20	113	24	3.12	0.5368	222-130-119
5.60	100	20	3.36	0.5368	222-140-119
6.00	88	18	3.6	0.6039	222-150-119
6.40	84	16	3.84	0.6039	222-160-119
6.80	76	14	4.08	0.6039	222-170-119
7.00	74	13	4.20	0.6710	222-175-119
7.20	69	12	4.32	0.6710	222-180-119
8.00	59	10	4.80	0.8052	222-200-119
8.60	51	9	6.04	0.8723	222-215-119
9.00	46	8	6.32	0.9394	222-225-119
10.00	40	6	7.00	1.0736	222-250-119
11.00	32	5	7.72	1.2749	222-275-119
12.00	28	4	8.40	1.4091	222-300-119
12.60	25	4	8.84	1.4091	222-315-119
13.00	24	4	9.12	1.4762	222-325-119
14.00	23	3	9.80	1.6775	222-350-119
15.00	20	3	10.52	1.9459	222-375-119
16.00	19	3	11.20	2.0801	222-400-119
18.00	18	2	14.40	2.4156	222-450-119
20.00	17	2	16.00	2.7511	222-500-119
22.00	17	1	17.60	3.0866	222-550-119
24.00	16	1	19.20	3.4221	222-600-119
28.00	12	1	22.40	4.0260	222-700-119
32.00	9	1	25.60	4.6299	222-800-119
36.00	6	1	28.80	5.2338	222-900-119

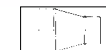
* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

Delivery forms:

Standard production:

- Dia. 1.52" - 3.6"
- Color red
- inside black
- Production lengths 20', 25'

Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes



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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +570°F



5.1.4

MASTER-CLIP SILICON

Material

hose wall: silicon-coated glass fabric
external helix: galvanized steel

Applications

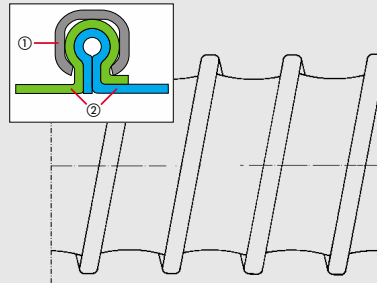
- hot air
- extraction equipment
- vehicle construction
- engine construction
- aircraft industries
- defense industries
- general engineering
- low pressure applications

Properties

- very high temperature resistance
- flame resistant
- highly flexible
- extreme compressibility 1:6
- small bend radius
- vibration resistant
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall: silicon-coated glass fabric



Temperature Range

- -75°F up to +570°F
- intermittent to +625°F
- When used in exhaust gas systems, gas funnels should be used properly and enough fresh air should be utilized.

Chem. Resistance

see resistance table
register no. 15

Technical Data, custom designs and forms of delivery see back page



MASTER-CLIP SILICON

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.0	342	128	1.20	0.2684	223-050-116
2.2	313	106	1.32	0.2684	223-055-116
2.4	273	89	1.44	0.3355	223-060-116
2.6	237	76	1.56	0.3355	223-065-116
2.8	213	64	1.68	0.3355	223-070-116
3.0	189	56	1.80	0.4026	223-075-116
3.2	173	50	1.92	0.4026	223-080-116
3.6	143	40	2.16	0.4026	223-090-116
4.0	121	32	2.40	0.4026	223-100-116
4.4	104	26	2.64	0.4697	223-110-116
4.8	90	22	2.88	0.4697	223-120-116
5.0	84	20	3.00	0.5368	223-125-116
5.2	79	19	3.12	0.5368	223-130-116
5.6	70	16	3.36	0.5368	223-140-116
6.0	63	14	3.06	0.6039	223-150-116
6.4	56	12	3.84	0.6039	223-160-116
6.8	51	11	4.08	0.6039	223-170-116
7.0	49	10	4.20	0.6710	223-175-116
7.2	47	10	4.32	0.6710	223-180-116
8.0	40	8	4.80	0.8052	223-200-116
8.6	35	7	6.04	0.8723	223-215-116
9.0	33	6	6.32	0.9394	223-225-116
10.0	28	5	7.00	1.0736	223-250-116
11.0	24	4	7.72	1.2749	223-275-116
12.0	21	4	8.40	1.4091	223-300-116
12.6	19	3	8.84	1.4091	223-315-116
13.0	18	3	9.12	1.4762	223-325-116
14.0	16	3	9.80	1.6775	223-350-116
15.0	14	2	10.52	1.9459	223-375-116
16.0	13	2	11.20	2.0801	223-400-116
18.0	11	2	14.40	2.4156	223-450-116
20.0	9	1	16.00	2.7511	223-500-116
22.0	8	1	17.60	3.0866	223-550-116
24.0	7	1	19.20	3.4221	223-600-116
28.0	6	1	22.40	4.0260	223-700-116
32.0	4	1	25.60	4.6299	223-800-116
36.0	4	1	28.80	5.2338	223-900-116

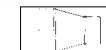
* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

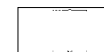
Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

Delivery forms:

Standard production:

- Dia. 2" - 3.6"
- Color silver grey
- Production lengths 20', 25'

Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes
- external helix also in stainless steel or aluminium



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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +570°F



5.1.5

MASTER-CLIP ISO-SILICON

Material

inner hose wall: heat resistant impregnated glass fabric,
outer hose wall: silicon-coated glass fabric
external helix: galvanized steel

Applications

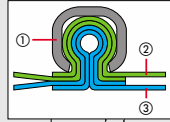
- hot air
- suction plants with improved extraction capacity
- vehicle construction
- engine construction
- aircraft industries
- defense industries
- general engineering
- low pressure applications

Properties

- very high temperature resistance
- flame resistant
- highly flexible
- extreme compressibility 1:4
- small bend radius
- good vacuum-resistance
- vibration resistant
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② outer hose wall: silicon-coated glass fabric
- ③ inner hose wall: heat resistant impregnated glass fabric



Temperature Range

- -75°F up to +570°F
- intermittent to +625°F
- When used in exhaust gas systems, gas funnels should be used properly and enough fresh air should be utilized.

Chem. Resistance

see resistance table register no. 15

Technical Data, custom designs and forms of delivery see back page

 **Masterduct**
Member of the Masterflex-Group

MASTER-CLIP ISO-SILICON

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.0	342	128	1.20	0.2684	224-050-116
2.2	313	106	1.32	0.2684	224-055-116
2.4	273	89	1.44	0.3355	224-060-116
2.6	237	76	1.56	0.3355	224-065-116
2.8	213	64	1.68	0.3355	224-070-116
3.0	189	56	1.80	0.4026	224-075-116
3.2	173	50	1.92	0.4026	224-080-116
3.6	143	40	2.16	0.4026	224-090-116
4.0	121	32	2.40	0.4026	224-100-116
4.4	104	26	2.64	0.4697	224-110-116
4.8	90	22	2.88	0.4697	224-120-116
5.0	84	20	3.00	0.5368	224-125-116
5.2	79	19	3.12	0.5368	224-130-116
5.6	70	16	3.36	0.5368	224-140-116
6.0	63	14	3.60	0.6039	224-150-116
6.4	56	12	3.84	0.6039	224-160-116
6.8	51	11	4.08	0.6039	224-170-116
7.0	49	10	4.20	0.6710	224-175-116
7.2	47	10	4.32	0.6710	224-180-116
8.0	40	8	4.80	0.8052	224-200-116
8.6	35	7	6.04	0.8723	224-215-116
9.0	33	6	6.32	0.9394	224-225-116
10.0	28	5	7.00	1.0736	224-250-116
11.0	24	4	7.72	1.2749	224-275-116
12.0	21	4	8.40	1.4091	224-300-116
12.6	19	3	8.84	1.4091	224-315-116
13.0	18	3	9.12	1.4762	224-325-116
14.0	16	3	9.80	1.6775	224-350-116
15.0	14	2	10.52	1.9459	224-375-116
16.0	13	2	11.20	2.0801	224-400-116
18.0	11	2	14.40	2.4156	224-450-116
20.0	9	1	16.00	2.7511	224-500-116
22.0	8	1	17.60	3.0866	224-550-116
24.0	7	1	19.20	3.4221	224-600-116
28.0	6	1	22.40	4.0260	224-700-116
32.0	4	1	25.60	4.6299	224-800-116
36.0	4	1	28.80	5.2338	224-900-116

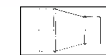
* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

Delivery forms:

Standard production:

- Dia. 2" - 3.6"
- Color silver grey
- Production lengths 20', 25'

Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes
- external helix also in stainless steel or aluminium



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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +570°F



5.1.6

MASTER-CLIP CAR

Material

hose wall: special-coated high-temperature fabric
external helix: galvanized steel

Applications

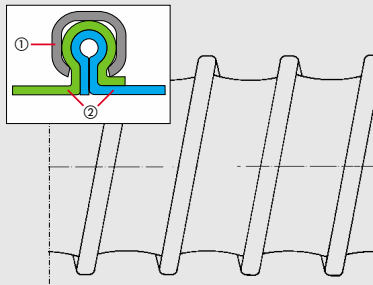
- suction plants
- vehicle and engine construction
- fume exhaustion (especially diesel engine fumes)
- aircraft industries
- defense industries
- general engineering
- hot air
- low pressure applications

Properties

- primarily suited as suction hose
- very good temperature resistance
- flame resistant
- high resistance to mechanical loadings
- vibration resistant
- abrasion resistant
- highly flexible
- extremely compressibility 1:6
- small bend radius
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall: special-coated high temperature fabric



Temperature Range

- -75°F up to +570°F
- intermittent to +660°F

Technical Data, custom designs and forms of delivery see back page

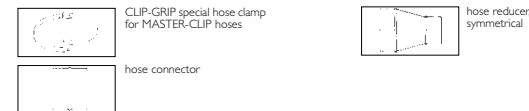
MASTER-CLIP CAR

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
1.6	374	144	0.96	0.3355	225-040-120
1.8	370	136	1.08	0.3355	225-045-120
2.0	362	128	1.20	0.3355	225-050-120
2.2	342	106	1.32	0.4026	225-055-120
2.4	313	89	1.44	0.4026	225-060-120
2.6	273	76	1.56	0.4697	225-065-120
2.8	269	64	1.68	0.4697	225-070-120
3.0	249	56	1.80	0.5368	225-075-120
3.2	245	50	1.92	0.5368	225-080-120
3.6	225	40	2.16	0.5368	225-090-120
4.0	205	32	2.40	0.6039	225-100-120
4.4	193	26	2.64	0.6039	225-110-120
4.8	145	22	2.88	0.6710	225-120-120
5.0	133	20	3.00	0.6710	225-125-120
5.2	113	19	3.12	0.7381	225-130-120
5.6	100	16	3.36	0.7381	225-140-120
6.0	88	14	3.60	0.8052	225-150-120
6.4	84	12	3.84	0.8052	225-160-120
6.8	76	11	4.08	0.8723	225-170-120
7.0	74	10	4.20	0.9394	225-175-120
7.2	69	10	5.04	0.9394	225-180-120
8.0	59	8	5.60	1.0736	225-200-120
8.6	51	7	6.04	1.1407	225-215-120
9.0	46	6	6.32	1.2078	225-225-120
10.0	40	5	7.00	1.3420	225-250-120
11.0	32	4	7.72	1.4091	225-275-120
12.0	28	4	8.40	1.4762	225-300-120
12.6	25	3	8.84	1.4762	225-315-120
13.0	24	3	9.12	1.5433	225-325-120
14.0	23	3	9.80	1.7446	225-350-120
15.0	20	2	12.00	1.9459	225-375-120
16.0	19	2	12.80	2.0801	225-400-120
18.0	18	2	14.40	2.4156	225-450-120
20.0	17	1	16.00	2.7511	225-500-120
22.0	17	1	17.60	3.0866	225-550-120
24.0	16	1	19.20	3.4221	225-600-120
28.0	12	1	22.40	4.0260	225-700-120
32.0	9	1	25.60	4.6299	225-800-120
36.0	6	1	28.80	5.2338	225-900-120

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Installation and connection possibilities (see section no. 11 and 12):



Delivery forms:

Standard production:

- Dia. 1.6" - 3.6"
- Color: inside silver-grey
- outside green-grey
- Production lengths 10', 25'

Available on request:

- special diameters
- special lengths
- custom design with other pitches and helix sizes
- external helix also in stainless steel or aluminium
- double layer construction with raised vacuum resistance (up to 30 % more than single layer standard hose types)



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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +570°F



5.1.7

MASTER-CLIP ISO-CAR

Material

hose wall: two-layers, inner and outer layer special-coated high-temperature fabric
external helix: galvanized steel

Applications

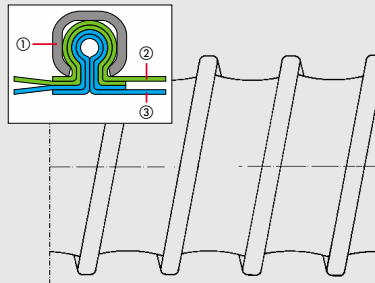
- hot air
- suction plants
- vehicle construction
- engine construction
- aircraft industries
- defense industries
- general engineering
- diesel engine test beds with raised extraction speed
- low pressure applications

Properties

- primarily suited as suction hose
- very good temperature resistance
- flame resistant
- high resistance to mechanical loadings
- vibration resistant
- abrasion resistant
- flexible
- compressibility 1:4
- small bend radius
- good vacuum characteristics
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall:
- ③ inside and outside: special-coated high temperature fabric



Temperature Range

- -75°F up to +570°F
- intermittent to +660°F

Technical Data, custom designs and forms of delivery see back page

MASTER-CLIP ISO-CAR

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.0	362	156	1.20	0.4026	226-050-120
2.2	342	134	1.32	0.4697	226-055-120
2.4	313	117	1.44	0.4697	226-060-120
2.6	273	105	1.56	0.5368	226-065-120
2.8	269	91	1.68	0.6039	226-070-120
3.0	249	85	1.80	0.6710	226-075-120
3.2	245	76	1.92	0.6710	226-080-120
3.6	225	66	2.16	0.8052	226-090-120
4.0	205	53	2.40	0.8723	226-100-120
4.4	193	44	2.64	0.8723	226-110-120
4.8	145	37	2.88	0.9394	226-120-120
5.0	133	33	3.00	0.9394	226-125-120
5.2	113	31	3.12	1.0736	226-130-120
5.6	100	28	3.36	1.0736	226-140-120
6.0	88	24	3.60	1.2078	226-150-120
6.4	84	22	3.84	1.2078	226-160-120
6.8	76	19	4.08	1.3420	226-170-120
7.0	74	18	4.20	1.4091	226-175-120
7.2	69	16	5.04	1.4091	226-180-120
8.0	59	13	5.60	1.6104	226-200-120
8.6	51	12	6.04	1.2749	226-215-120
9.0	46	11	6.32	1.3420	226-225-120
10.0	40	9	7.00	1.4762	226-250-120
11.0	32	7	7.72	1.5433	226-275-120
12.0	28	6	8.40	1.6104	226-300-120
12.6	25	6	8.84	1.6104	226-315-120
13.0	24	5	9.12	1.6775	226-325-120
14.0	23	5	9.80	1.9459	226-350-120
15.0	20	4	12.00	2.1472	226-375-120
16.0	19	3	12.80	2.2814	226-400-120
18.0	18	3	14.40	2.6840	226-450-120
20.0	17	2	16.00	3.0195	226-500-120
22.0	17	2	17.60	3.4221	226-550-120
24.0	16	2	19.20	3.7576	226-600-120
28.0	12	1	22.40	4.4286	226-700-120
32.0	9	1	25.60	5.0996	226-800-120
36.0	6	1	28.80	5.7706	226-900-120

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

Standard production:

- Dia. 2" - 36"
- Color: inside silver-grey outside green-grey
- Standard lengths 10', 25'

Available on request:

- special diameters
- special lengths
- custom design with other pitches and helix sizes
- external helix also in stainless steel

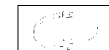


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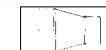
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Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +750°F



5.1.8

MASTER-CLIP KAPTON

Material

hose wall: one-side KAPTON-laminated glass fabric
external helix: galvanized steel

Applications

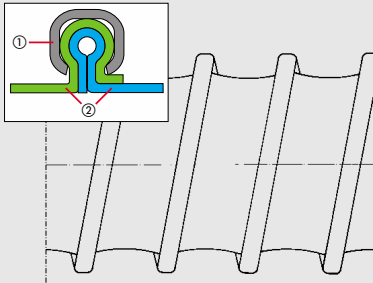
- fume exhaustion in pressure applications
- vehicle and engine construction
- exhaust-fume extraction from high performance test beds in the motor vehicle industries

Properties

- gas-tight in low and high pressure applications
- good vacuum resistance
- very high temperature resistance
- flame resistant, non melting KAPTON-coating
- external steel helix protects against abrasion
- extremely flexible
- compressibility 1:4
- small bend radius
- excellent resistance to chemicals (similar resistance as MASTER-CLIP TEFLON hoses but in a much wider temperature range)
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall: one side KAPTON-laminated glass fabric



Temperature Range

- -435°F up to +750°F

Chem. Resistance

see resistance table section no. 15

Technical Data, custom designs and forms of delivery see back page

MASTER-CLIP KAPTON

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.0	362	150	1.20	0.5368	253-050-110
2.2	328	133	1.32	0.5368	253-055-110
2.4	281	121	1.44	0.5368	253-060-110
2.6	251	114	1.56	0.6039	253-065-110
2.8	221	100	1.68	0.6039	253-070-110
3.0	201	97	1.80	0.6039	253-075-110
3.2	181	87	1.92	0.6710	253-080-110
3.6	161	79	2.16	0.6710	253-090-110
4.0	141	64	2.40	0.6710	253-100-110
4.4	121	53	2.64	0.7381	253-110-110
4.8	113	45	2.88	0.7381	253-120-110
5.0	109	40	3.00	0.8723	253-125-110
5.2	105	38	3.12	0.8723	253-130-110
5.6	79	34	3.36	0.8723	253-140-110
6.0	69	29	3.60	0.9394	253-150-110
6.4	64	26	3.84	0.9394	253-160-110
6.8	64	22	4.08	0.9394	253-170-110
7.0	59	21	4.20	1.0736	253-175-110
7.2	53	20	5.04	1.0736	253-180-110
8.0	49	16	5.60	1.2078	253-200-110
8.6	47	15	6.04	1.3420	253-215-110
9.0	42	13	6.32	1.4762	253-225-110
10.0	39	11	7.00	1.6775	253-250-110
11.0	37	9	7.72	1.9459	253-275-110
12.0	33	7	8.40	2.1472	253-300-110
12.6	28	7	8.84	2.2143	253-315-110
13.0	25	7	9.12	2.3485	253-325-110
14.0	20	6	9.80	2.6169	253-350-110
15.0	16	5	12.00	2.9524	253-375-110
16.0	16	4	12.80	3.2879	253-400-110
18.0	12	3	14.40	3.8247	253-450-110
20.0	11	3	16.00	4.3615	253-500-110
22.0	10	2	17.60	4.8983	253-550-110
24.0	8	2	19.20	5.5022	253-600-110
28.0	6	2	22.40	6.4416	253-700-110
32.0	5	1	25.60	7.3810	253-800-110
36.0	4	1	28.80	8.3875	253-900-110

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

Standard production:

- Dia. 2" - 36"
- Color: outside white inside yellow-gold
- Production lengths 10', 25'

Available on request:

- special diameters
- special lengths
- two-layer-construction with raised vacuum resistance (up to 30 % more than the single-layer standard hose type)
- custom design with other pitches and helix sizes
- external helix also in stainless steel

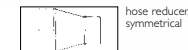


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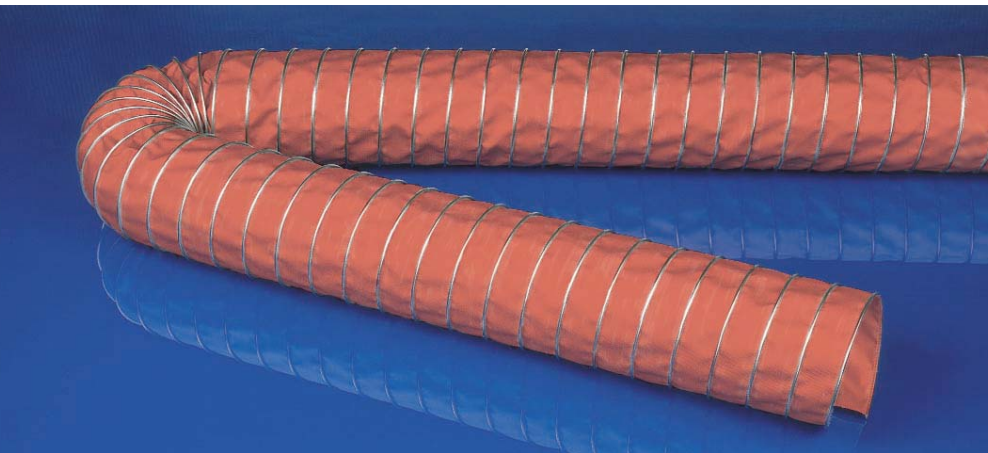
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Installation and connection possibilities (see section no. 11 and 12):



MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +750°F



5.1.9

MASTER-CLIP HT 750

Material

hose wall: special-coated high temperature fabric, asbestos free, reinforced by woven in stainless steel wire

external helix: galvanized steel

Applications

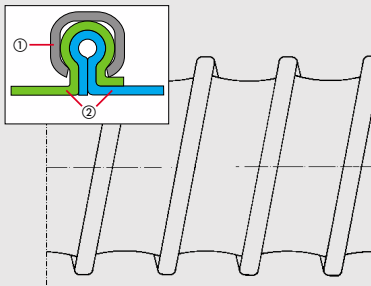
- hot air
- suction plants
- furnace construction
- iron and steel works
- engine construction
- radiant heat protection
- primary suitable as extraction hose
- low pressure applications

Properties

- very high temperature resistance
- silicone free
- highly flexible
- extreme compressibility 1:6
- small bend radius
- improved vacuum-resistance by woven in reinforcement
- external steel helix protects against abrasion
- suitable for continually flexing
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall: special-coated high temperature fabric



Temperature Range

- -5°F up to +750°F
- intermittent to +840°F

small amounts of smoke maybe given off when used under positive pressure or with low extraction rates. For a gas-tight seal we recommend our hose types MASTER-CLIP KAPTON, MASTER-CLIP HT 930 or HT-PRESSURE HOSES (see Reg. 5 and 6)

Technical Data, custom designs and forms of delivery see back page

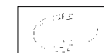
MASTER-CLIP HT 750

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
1.52	366	163	0.92	0.3355	227-038-119
1.60	362	158	0.96	0.3355	227-040-119
1.80	350	150	1.08	0.3355	227-045-119
2.00	342	141	1.20	0.3355	227-050-119
2.20	313	117	1.32	0.4026	227-055-119
2.40	273	98	1.44	0.4026	227-060-119
2.60	237	84	1.56	0.4697	227-065-119
2.80	213	70	1.68	0.4697	227-070-119
3.00	189	62	1.80	0.5368	227-075-119
3.20	173	55	1.92	0.5368	227-080-119
3.60	143	44	2.16	0.5368	227-090-119
4.00	121	35	2.40	0.5368	227-100-119
4.40	104	29	2.64	0.6039	227-110-119
4.80	90	25	2.88	0.6039	227-120-119
5.00	84	22	3.00	0.6710	227-125-119
5.20	79	21	3.12	0.6710	227-130-119
5.60	70	18	3.36	0.6710	227-140-119
6.00	63	16	3.60	0.7381	227-150-119
6.40	56	14	3.84	0.7381	227-160-119
6.80	51	12	4.08	0.7381	227-170-119
7.00	49	12	4.20	0.8723	227-175-119
7.20	47	11	4.32	0.8723	227-180-119
8.00	40	9	4.80	1.0065	227-200-119
8.60	35	8	6.04	1.0736	227-215-119
9.00	33	7	6.32	1.2078	227-225-119
10.00	28	6	7.00	1.3420	227-250-119
11.00	24	5	7.72	1.6104	227-275-119
12.00	21	4	8.40	1.7446	227-300-119
12.60	19	4	8.84	1.7446	227-315-119
13.00	18	3	9.12	1.8788	227-325-119
14.00	16	3	9.80	2.0801	227-350-119
15.00	14	3	10.52	2.4156	227-375-119
16.00	13	2	11.20	2.6169	227-400-119
18.00	11	2	14.40	3.0195	227-450-119
20.00	9	1	16.00	3.4221	227-500-119
22.00	8	1	17.60	3.8918	227-550-119
24.00	7	1	19.20	4.2944	227-600-119
28.00	6	1	22.40	5.0325	227-700-119
32.00	4	1	25.60	5.7706	227-800-119
36.00	4	1	28.80	6.5758	227-900-119

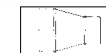
* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

Delivery forms:

Standard production:

- Dia. 1.52" - 36"
- Color red
- Production lengths 20', 25'

Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes
- external helix also in stainless steel

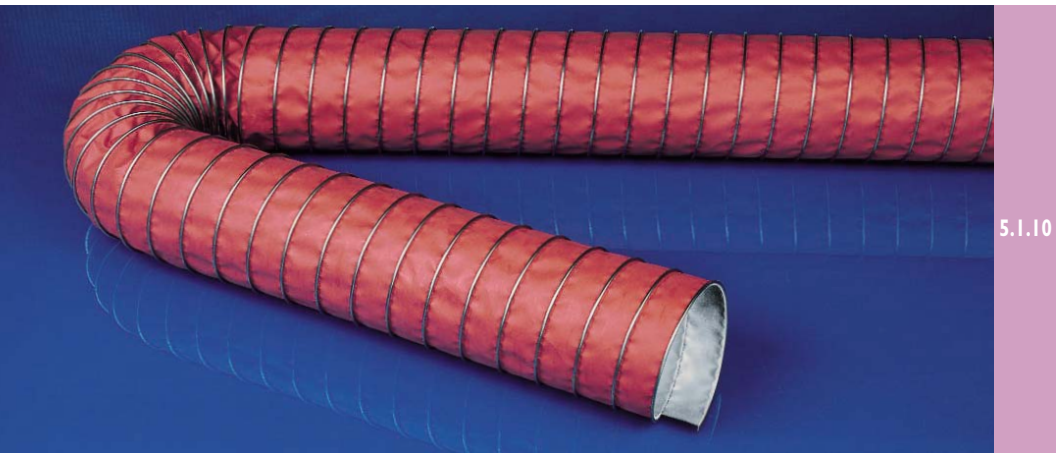


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 **Masterduct**
Member of the Masterflex-Group

MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +750°F



5.1.10

MASTER-CLIP HT 930

Material

hose wall: special-coated high-temperature fabric, asbestos-free, laminated with high-grade steel foil

external helix: galvanized steel

Applications

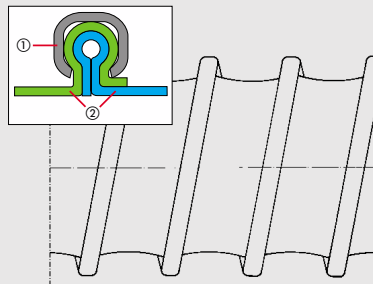
- fume exhaustion in overpressure applications
- vehicle and engine construction
- exhaust-fume extraction from high performance test beds in the motor vehicle industries

Properties

- gas-tight in low pressure applications
- very high temperature resistance against abrasion
- flexible
- compressibility 1:2
- small bend radius
- flame resistant
- good vacuum resistance
- external steel helix protects
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall: special-coated high temperature fabric



Temperature Range

- -75°F up to +930°F
- intermittent to +1020°F

Technical Data, custom designs and forms of delivery see back page

MASTER-CLIP HT 930

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.0	362	158	1.20	0.5368	228-050-119
2.2	342	140	1.32	0.5368	228-055-119
2.4	313	127	1.44	0.5368	228-060-119
2.6	273	120	1.56	0.6039	228-065-119
2.8	269	106	1.68	0.6039	228-070-119
3.0	249	102	1.80	0.6039	228-075-119
3.2	245	91	1.92	0.6710	228-080-119
3.6	225	84	2.16	0.6710	228-090-119
4.0	205	67	2.40	0.6710	228-100-119
4.4	193	56	2.64	0.7381	228-110-119
4.8	145	47	2.88	0.7381	228-120-119
5.0	133	42	3.00	0.8723	228-125-119
5.2	113	40	3.12	0.8723	228-130-119
5.6	100	35	3.36	0.8723	228-140-119
6.0	88	30	3.60	0.9394	228-150-119
6.4	84	27	3.84	0.9394	228-160-119
6.8	76	24	4.08	0.9394	228-170-119
7.0	74	22	4.20	1.0736	228-175-119
7.2	69	21	5.04	1.0736	228-180-119
8.0	59	17	5.60	1.2078	228-200-119
8.6	51	15	6.04	1.3420	228-215-119
9.0	46	14	6.32	1.4762	228-225-119
10.0	40	12	7.00	1.6775	228-250-119
11.0	32	9	7.72	1.9459	228-275-119
12.0	28	8	8.40	2.1472	228-300-119
12.6	25	7	8.84	2.2143	228-315-119
13.0	24	7	9.12	2.3485	228-325-119
14.0	23	6	9.80	2.6169	228-350-119
15.0	20	5	12.00	2.9524	228-375-119
16.0	19	4	12.80	3.2879	228-400-119
18.0	18	4	14.40	3.8247	228-450-119
20.0	17	3	16.00	4.3615	228-500-119
22.0	17	2	17.60	4.8983	228-550-119
24.0	16	2	19.20	5.5022	228-600-119
28.0	12	2	22.40	6.4416	228-700-119
32.0	9	1	25.60	7.3810	228-800-119
36.0	6	1	28.80	8.3875	228-900-119

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

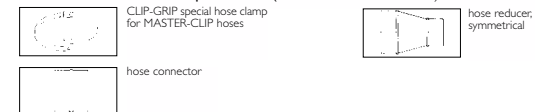
Standard production:

- Dia. 2" - 36"
- Color: inside silver-grey outside red
- Production lengths 20', 25'

Available on request:

- special diameters
- special lengths
- two layer construction with raised vacuum resistance (up to 30 % more than the single layer standard hose type)
- custom design with other pitches and helix sizes
- external helix also in stainless steel

Installation and connection possibilities (see section no. 11 and 12):

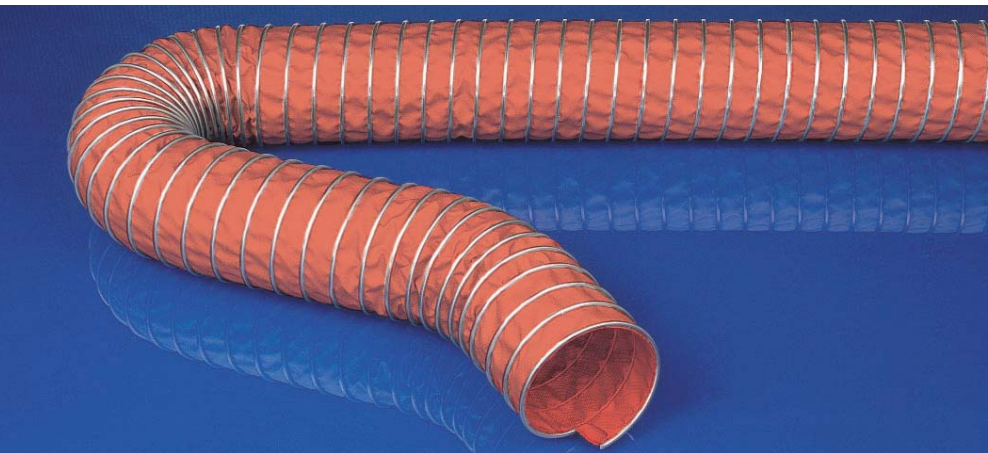


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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +750°F



5.1.11

MASTER-CLIP HT 1200

Material

hose wall: two-layer construction, inner and outer hose wall asbestos free high-temperature fabric, specially coated with heat-stabilizers, reinforced by woven in stainless steel wire
external helix: galvanized steel

Properties

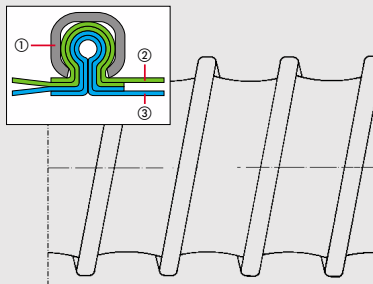
- very high temperature resistance
- flame resistant
- improved vibration resistance by woven-in reinforcement
- flexible, compressibility 1:3
- small bend radius
- good vacuum-resistance
- silicone free
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Applications

- exhaust-fume extraction from high performance test beds in the motor vehicle industries
- vehicle and engine construction
- suction plants
- shipbuilding industries
- aircraft and defense industries
- general engineering
- furnace construction
- iron and steel works
- infrared-dryer plants
- radiant heat protection
- low pressure applications

Construction

- ① external helix
- ② hose wall:
- ③ outside: and inside: special-coated high temperature fabric



Temperature Range

- -75°F up to +1200°F
- intermittent to +1380°F

small amounts of smoke maybe given off when used under positive pressure or with low extraction rates

Technical Data, custom designs and forms of delivery see back page

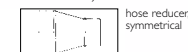
MASTER-CLIP HT 1200

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.0	362	158	1.20	0.87230	229-050-119
2.2	328	140	1.32	0.87230	229-055-119
2.4	281	127	1.44	0.90585	229-060-119
2.6	251	120	1.56	0.97295	229-065-119
2.8	221	106	1.68	1.00650	229-070-119
3.0	201	102	1.80	1.10715	229-075-119
3.2	181	91	1.92	1.20780	229-080-119
3.6	161	84	2.16	1.20780	229-090-119
4.0	141	67	2.40	1.20780	229-100-119
4.4	121	56	2.64	1.27490	229-110-119
4.8	113	47	2.88	1.34200	229-120-119
5.0	109	42	3.00	1.40910	229-125-119
5.2	105	40	3.12	1.40910	229-130-119
5.6	79	35	3.36	1.40910	229-140-119
6.0	69	30	3.60	1.47620	229-150-119
6.4	64	27	3.84	1.61040	229-160-119
6.8	64	24	4.08	1.67750	229-170-119
7.0	59	22	4.20	1.87880	229-175-119
7.2	53	21	4.32	1.87880	229-180-119
8.0	49	17	4.80	2.01300	229-200-119
8.6	47	15	6.04	2.14720	229-215-119
9.0	42	14	6.32	2.28140	229-225-119
10.0	39	12	7.00	2.38205	229-250-119
11.0	37	9	7.72	2.82491	229-275-119
12.0	33	8	8.40	3.08660	229-300-119
12.6	28	7	8.84	2.95240	229-315-119
13.0	25	7	9.12	3.15370	229-325-119
14.0	20	6	9.80	3.35500	229-350-119
15.0	16	5	10.52	3.69050	229-375-119
16.0	16	4	11.20	3.95890	229-400-119
18.0	12	4	14.40	4.49570	229-450-119
20.0	11	3	16.00	4.96540	229-500-119
22.0	10	2	17.60	5.50220	229-550-119
24.0	8	2	19.20	6.03900	229-600-119
28.0	6	2	22.40	6.77710	229-700-119
32.0	5	1	25.60	7.78360	229-800-119
36.0	4	1	28.80	8.85720	229-900-119

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Installation and connection possibilities (see section no. 11 and 12):



Delivery forms:

Standard production:

- Dia. 2" - 36"
- Color red
- Production lengths 20', 25'

Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes
- external helix also in stainless steel

Pacific Air Consultants, Inc.

P.O. Box 426 - 33100 NE Ivy Avenue
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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +2010°F



5.1.12

MASTER-CLIP HT 2010

Material

hose wall: three-layer construction, asbestos-free high-temperature fabric, special coated with heat-stabilizers
external helix: heat-resistant chromium

Properties

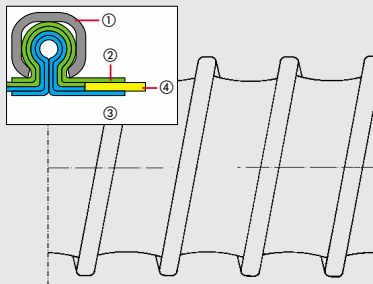
- very high temperature resistance
- flame resistant
- silicone free
- flexible; compressibility 1:2
- small bend radius
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Applications

- extremely high temperatures
- exhaust-fume extraction from large engines
- extraction under stray sparks
- shipbuilding industries
- vehicle and engine construction
- suction plants
- aircraft and defense industries
- general engineering
- furnace construction
- iron and steel works
- exhaust-fume extraction from high performance test beds in the motor vehicle industries
- extraction of aircraft engine fumes
- radiant heat protection
- low pressure applications

Construction

- ① external helix
 hose wall:
 ② outside and ③ inside and
 ④ middle layer: special-coated high temperature fabric



Temperature Range

- -75°F up to +2010°F
- intermittent to +2370°F

small amounts of smoke maybe given off when used under positive pressure or with low extraction rates.
 Technical Data, custom designs and forms of delivery see back page

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MASTER-CLIP HT 2010

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
3.0	201	122	1.80	0.7381	230-075-119
3.2	181	111	1.92	0.8052	230-080-119
3.6	161	100	2.16	0.8052	230-090-119
4.0	141	81	2.40	0.8052	230-100-119
4.4	121	67	2.64	0.8723	230-110-119
4.8	113	57	2.88	0.8723	230-120-119
5.0	109	50	3.00	1.0065	230-125-119
5.2	105	48	3.12	1.0065	230-130-119
5.6	79	42	3.36	1.0065	230-140-119
6.0	69	37	3.60	1.1407	230-150-119
6.4	64	32	3.84	1.1407	230-160-119
6.8	64	28	4.08	1.1407	230-170-119
7.0	59	27	4.20	1.3420	230-175-119
7.2	53	25	5.04	1.3420	230-180-119
8.0	49	20	5.60	1.4762	230-200-119
8.6	47	18	6.04	1.6104	230-215-119
9.0	42	17	6.32	1.8117	230-225-119
10.0	39	14	7.00	2.0130	230-250-119
11.0	37	11	7.72	2.3485	230-275-119
12.0	33	9	8.40	2.6169	230-300-119
12.6	28	9	8.84	2.6840	230-315-119
13.0	25	8	9.12	2.8182	230-325-119
14.0	20	7	9.80	3.0866	230-350-119
15.0	16	6	12.00	3.6234	230-375-119
16.0	16	6	12.80	3.8918	230-400-119
18.0	12	4	14.40	4.4957	230-450-119
20.0	11	4	16.00	5.0996	230-500-119
22.0	10	3	17.60	5.7706	230-550-119
24.0	8	2	19.20	6.4416	230-600-119
28.0	6	2	22.40	7.4481	230-700-119
32.0	5	2	25.60	8.5888	230-800-119
36.0	4	1	28.80	9.7295	230-900-119

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

Standard production:

- Dia. 2" - 36"
- Color outside red
- Production lengths 10', 25'


Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes

Installation and connection possibilities (see section no. 11 and 12):

 CLIP-GRIP special hose clamp for MASTER-CLIP hoses

 hose reducer, symmetrical

 hose connector

MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +270°F



5.2.1

MASTER-NEO I

Material

hose wall: neoprene-coated glass fabric

spiral: spring steel wire

cord: glass fibre cord

Applications

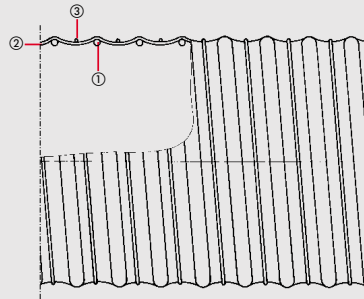
- guiding of air or gaseous media with high gas or environmental temperatures
- vehicle industry
- aircraft industry
- ship building industry
- general engineering and engine construction
- chemical industry
- plastics production
- hot air hose for granule dryers

Properties

- highly flexible
- lightweight
- small bend radius
- symmetric bending
- kink-proof
- good chemical resistance
- immovable vulcanized wall and spring steel spiral

Construction

- ① spring steel spiral
- ② hose wall: neoprene-coated glass fabric
- ③ glass fibre cord



Temperature Range

- -60°F up to +270°F
- intermittent to +300°F

Chem. Resistance

see resistance table register no. 15

Technical Data, custom designs and forms of delivery see back page

MASTER-NEO I

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
0.52	683	208	0.32	0.06710	680-013-107
0.76	643	204	0.32	0.07381	680-019-107
1.04	643	204	0.32	0.08052	680-026-107
1.20	563	200	0.40	0.09394	680-030-107
1.28	563	200	0.40	0.09394	680-032-107
1.52	522	200	0.48	0.11407	680-038-107
1.60	522	192	0.52	0.13420	680-040-107
1.64	522	192	0.52	0.13420	680-041-107
1.76	482	184	0.56	0.14091	680-044-107
1.80	482	184	0.56	0.14091	680-045-107
2.00	482	172	0.64	0.16775	680-050-107
2.04	482	172	0.64	0.16775	680-051-107
2.20	442	168	0.72	0.18117	680-055-107
2.28	442	164	0.72	0.18788	680-057-107
2.40	442	160	0.80	0.20130	680-060-107
2.52	442	156	0.88	0.21472	680-063-107
2.60	442	152	0.88	0.22814	680-065-107
2.80	442	144	0.96	0.24156	680-070-107
3.00	442	136	1.08	0.27511	680-075-107
3.04	442	136	1.08	0.27511	680-076-107
3.20	402	128	1.12	0.29524	680-080-107
3.32	402	124	1.12	0.30866	680-083-107
3.56	402	120	1.16	0.32879	680-089-107
3.60	402	120	1.16	0.32879	680-090-107
3.80	362	112	1.28	0.37576	680-095-107
4.00	362	104	1.40	0.42944	680-100-107
4.08	362	104	1.40	0.43615	680-102-107
4.32	362	96	1.52	0.45628	680-108-107
4.40	362	96	1.52	0.46299	680-110-107
4.56	362	88	1.60	0.47641	680-114-107
4.60	362	88	1.60	0.48312	680-115-107
4.80	322	80	1.72	0.50996	680-120-107
5.00	322	68	1.84	0.53009	680-125-107
5.08	322	68	1.84	0.53680	680-127-107
5.20	322	68	1.88	0.55022	680-130-107
5.60	281	60	1.92	0.60390	680-140-107
6.00	281	56	2.00	0.65087	680-150-107
6.08	281	56	2.04	0.66429	680-152-107
6.40	241	52	2.12	0.70455	680-160-107
6.60	241	48	2.20	0.72468	680-165-107
6.92	241	48	2.32	0.75823	680-173-107
7.12	241	44	2.40	0.78507	680-178-107
7.20	241	44	2.40	0.79849	680-180-107
8.00	201	28	2.68	0.87230	680-200-107
8.12	201	28	2.72	0.89243	680-203-107
9.16	161	23	3.36	0.99308	680-229-107
10.00	161	18	4.00	1.10715	680-250-107
10.16	161	16	4.08	1.12728	680-254-107
12.00	80	8	4.80	1.34200	680-300-107
12.20	80	8	4.92	1.37555	680-305-107

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

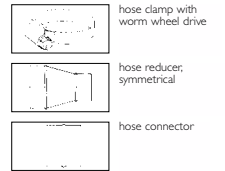
Standard production:

- Dia. .52" - 1.22"
- Color black
- Production lengths 10'

Available on request:

- special diameters
- special lengths
- with spiralfree sleeves

Installation and connection possibilities (see section no. 11 and 12):



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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +270°F



5.2.2

MASTER-NEO 2

Material

hose wall: neoprene-coated glass fabric, two layers

spiral: spring steel wire

cord: glass fibre cord

Applications

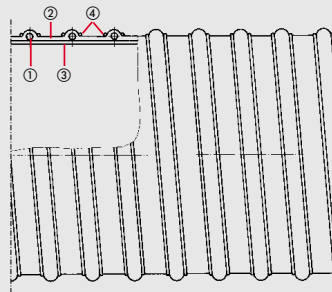
- guiding of air or gaseous media with high gas or environmental temperatures
- vehicle industry
- aircraft industry
- ship building industry
- general engineering and engine construction
- chemical industry
- plastics production
- hot air hose for granule dryers

Properties

- highly flexible
- lightweight
- small bend radius
- symmetric bending
- kink-proof
- good chemical resistance
- immovable vulcanized wall and spring steel spiral

Construction

- ① spring steel spiral
- ② outer layer: neoprene-coated glass fabric
- ③ inner layer: neoprene-coated glass fabric
- ④ glass fibre cord



Temperature Range

- -60 °F up to +270 °F
- intermittent to +300 °F

Chem. Resistance

see resistance table register no. 15

Technical Data, custom designs and forms of delivery see back page

MASTER-NEO 2

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
0.52	1,125	260	0.60	0.10736	681-013-107
0.76	1,125	260	0.60	0.12749	681-019-107
1.04	1,125	260	0.60	0.15433	681-026-107
1.20	1,125	260	0.60	0.16775	681-030-107
1.28	1,125	260	0.64	0.17446	681-032-107
1.52	1,045	240	0.72	0.20801	681-038-107
1.60	1,045	240	0.76	0.21472	681-040-107
1.64	1,045	240	0.76	0.21472	681-041-107
1.76	1,045	224	0.84	0.22814	681-044-107
1.80	1,045	224	0.84	0.22814	681-045-107
2.00	1,045	208	0.96	0.24156	681-050-107
2.04	1,045	208	0.96	0.24156	681-051-107
2.20	1,005	196	1.08	0.28182	681-055-107
2.28	1,005	196	1.12	0.28853	681-057-107
2.40	965	192	1.24	0.31537	681-060-107
2.52	965	192	1.24	0.32879	681-063-107
2.60	965	192	1.24	0.3355	681-065-107
2.80	924	176	1.40	0.35563	681-070-107
3.00	884	172	1.52	0.38918	681-075-107
3.04	884	172	1.52	0.38918	681-076-107
3.20	844	168	1.60	0.41602	681-080-107
3.32	844	164	1.68	0.42944	681-083-107
3.56	804	160	1.76	0.45628	681-089-107
3.60	804	160	1.76	0.46299	681-090-107
3.80	764	148	1.92	0.48983	681-095-107
4.00	764	140	2.08	0.51667	681-100-107
4.08	764	140	2.08	0.51667	681-102-107
4.32	683	124	2.20	0.55693	681-108-107
4.40	683	120	2.28	0.57035	681-110-107
4.56	643	116	2.28	0.59719	681-114-107
4.60	643	116	2.36	0.6039	681-115-107
4.80	643	112	2.44	0.63074	681-120-107
5.00	563	104	2.52	0.65758	681-125-107
5.08	563	100	2.56	0.67100	681-127-107
5.20	522	92	2.60	0.68442	681-130-107
5.60	522	76	2.80	0.74481	681-140-107
6.00	482	68	3.00	0.80520	681-150-107
6.08	482	68	3.00	0.80520	681-152-107
6.40	442	60	3.20	0.85888	681-160-107
6.60	402	56	3.32	0.88572	681-165-107
6.92	402	52	3.48	0.93940	681-173-107
7.12	402	48	3.56	0.97295	681-178-107
7.20	402	48	3.60	0.99308	681-180-107
8.00	281	36	4.00	1.08702	681-200-107
8.12	281	36	4.04	1.10715	681-203-107
9.16	241	32	5.00	1.27490	681-229-107
10.00	201	28	6.00	1.40239	681-250-107
10.16	201	28	6.00	1.43594	681-254-107
12.00	121	16	8.40	1.71105	681-300-107
12.20	121	16	8.40	1.73118	681-305-107

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

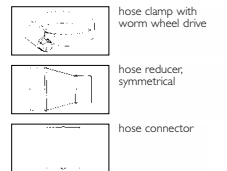
Standard production:

- Dia. .52" - 12.2"
- Color black
- Production lengths 10'

Available on request:

- special diameters
- special lengths
- with spiralfree sleeves

Installation and connection possibilities (see section no. 11 and 12):

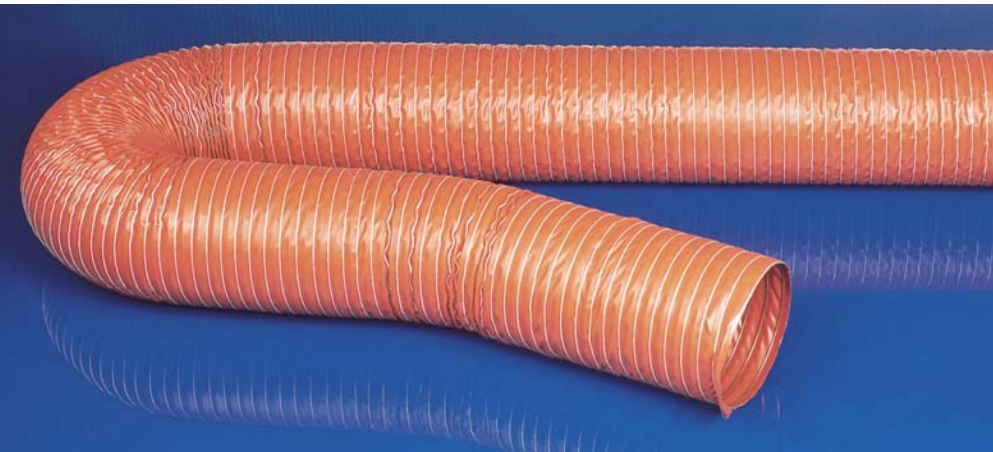


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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +480°F



5.2.3

MASTER-SIL I

Material

hose wall: silicon-coated glass fabric
 spiral: spring steel wire
 cord: glass fibre cord

Applications

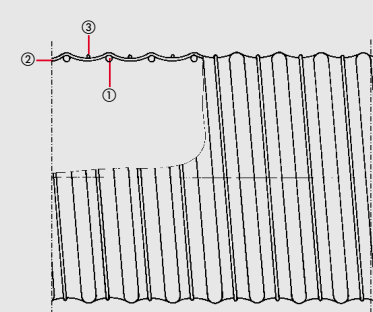
- guiding of air or gaseous media with high gas or environmental temperatures
- vehicle industry
- aircraft industry
- ship building industry
- general engineering and engine construction
- chemical industry
- plastics production
- hot air hose for granule dryers

Properties

- highly flexible
- lightweight
- small bend radius
- symmetrically bending
- kink-proof
- good chemical resistance
- immovable vulcanized wall and spring steel spiral

Construction

- ① spring steel spiral
- ② hose wall: silicon-coated glass fabric
- ③ glass fibre cord



Temperature Range

- -75°F up to +480°F
- intermittent to +535°F

Chem. Resistance

see resistance table
 register no. 15

Technical Data, custom designs and forms of delivery see back page

MASTER-SIL I

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
0.52	683	208	0.32	0.0671	685-013-119
0.76	643	204	0.32	0.07381	685-019-119
1.04	643	204	0.32	0.08052	685-026-119
1.20	563	200	0.40	0.09394	685-030-119
1.28	563	200	0.40	0.09394	685-032-119
1.52	522	200	0.48	0.11407	685-038-119
1.60	522	192	0.52	0.13420	685-040-119
1.64	522	192	0.52	0.13420	685-041-119
1.76	482	184	0.56	0.14091	685-044-119
1.80	482	184	0.56	0.14091	685-045-119
2.00	482	172	0.64	0.16775	685-050-119
2.04	482	172	0.64	0.16775	685-051-119
2.20	442	168	0.72	0.18117	685-055-119
2.28	442	164	0.72	0.18788	685-057-119
2.40	442	160	0.80	0.20130	685-060-119
2.52	442	156	0.88	0.21472	685-063-119
2.60	442	152	0.88	0.22814	685-065-119
2.80	442	144	0.96	0.24156	685-070-119
3.00	442	136	1.08	0.27511	685-075-119
3.04	442	136	1.08	0.27511	685-076-119
3.20	402	128	1.12	0.29524	685-080-119
3.32	402	124	1.12	0.30866	685-083-119
3.56	402	120	1.16	0.32879	685-089-119
3.60	402	120	1.16	0.32879	685-090-119
3.80	362	112	1.28	0.37576	685-095-119
4.00	362	104	1.40	0.42944	685-100-119
4.08	362	104	1.40	0.43615	685-102-119
4.32	362	96	1.52	0.45628	685-108-119
4.40	362	96	1.52	0.46299	685-110-119
4.56	362	88	1.60	0.47641	685-114-119
4.60	362	88	1.60	0.48312	685-115-119
4.80	322	80	1.72	0.50996	685-120-119
5.00	322	68	1.84	0.53009	685-125-119
5.08	322	68	1.84	0.53680	685-127-119
5.20	322	68	1.88	0.55022	685-130-119
5.60	281	60	1.92	0.60390	685-140-119
6.00	281	56	2.00	0.65087	685-150-119
6.08	281	56	2.04	0.66429	685-152-119
6.40	241	52	2.12	0.70455	685-160-119
6.60	241	48	2.20	0.72468	685-165-119
6.92	241	48	2.32	0.75823	685-173-119
7.12	241	44	2.40	0.78507	685-178-119
7.20	241	44	2.40	0.79849	685-180-119
8.00	201	28	2.68	0.87230	685-200-119
8.12	201	28	2.72	0.89243	685-203-119
9.16	161	23	3.36	0.99308	685-229-119
10.00	161	18	4.00	1.10715	685-250-119
10.16	161	16	4.08	1.12728	685-254-119
12.00	80	8	4.80	1.34200	685-300-119
12.20	80	8	4.92	1.37555	685-305-119

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

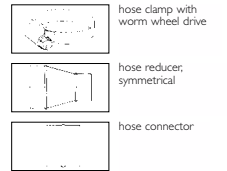
Standard production:

- Dia. .52" - 12.2"
- Color black
- Production lengths 10'

Available on request:

- special diameters
- special lengths
- with spiralfree sleeves

Installation and connection possibilities (see section no. 11 and 12):

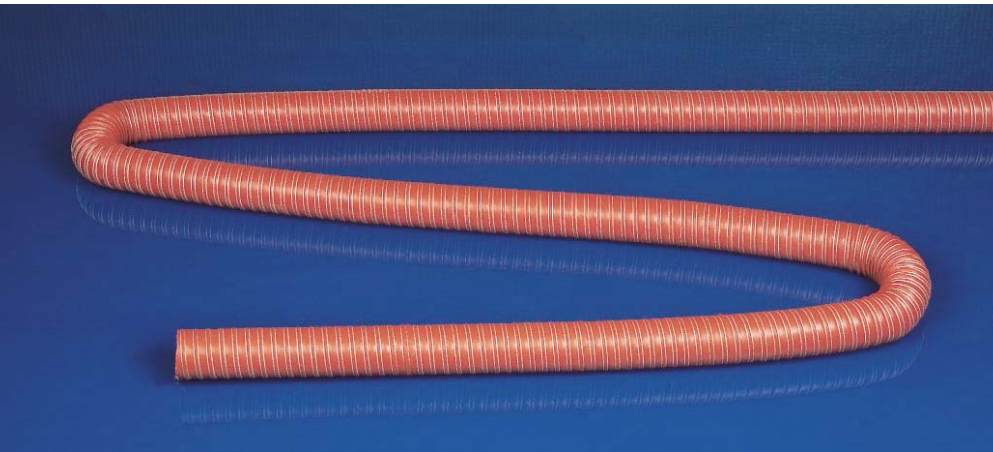


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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +480°F



5.2.4

MASTER-SIL 2

Material

hose wall: silicon-coated glass fabric, two layers
spiral: spring steel wire
cord: glass fibre cord

Applications

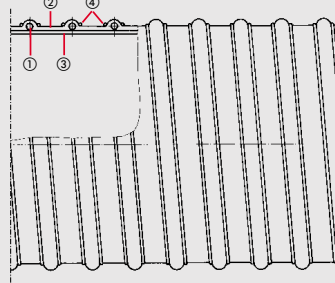
- guiding of air or gaseous media with high gas or environmental temperatures
- vehicle industry
- aircraft industry
- ship building industry
- general engineering and engine construction
- chemical industry
- plastics production
- hot air hose for granule dryers

Properties

- highly flexible
- lightweight
- small bend radius
- symmetrical bending
- kink-proof
- good chemical resistance
- immovable vulcanized wall and spring steel spiral

Construction

- ① spring steel spiral
- ② outer layer: silicon-coated glass fabric
- ③ inner layer: silicon-coated glass fabric
- ④ glass fibre cord



Temperature Range

- -75°F up to +480°F
- intermittent to +535°F

Chem. Resistance

see resistance table
 register no. 15

Technical Data, custom designs and forms of delivery see back page

MASTER-SIL 2

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
0.52	1,125	260	0.60	0.10736	686-013-119
0.76	1,125	260	0.60	0.12749	686-019-119
1.04	1,125	260	0.60	0.15433	686-026-119
1.20	1,125	260	0.60	0.16775	686-030-119
1.28	1,125	260	0.64	0.17446	686-032-119
1.52	1,045	240	0.72	0.20801	686-038-119
1.60	1,045	240	0.76	0.21472	686-040-119
1.64	1,045	240	0.76	0.21472	686-041-119
1.76	1,045	224	0.84	0.22814	686-044-119
1.80	1,045	224	0.84	0.22814	686-045-119
2.00	1,045	208	0.96	0.24156	686-050-119
2.04	1,045	208	0.96	0.24156	686-051-119
2.20	1,005	196	1.08	0.28182	686-055-119
2.28	1,005	196	1.12	0.28853	686-057-119
2.40	965	184	1.24	0.31537	686-060-119
2.52	965	184	1.24	0.32879	686-063-119
2.60	965	184	1.24	0.33550	686-065-119
2.80	924	176	1.40	0.35563	686-070-119
3.00	884	172	1.52	0.38918	686-075-119
3.04	884	172	1.52	0.41602	686-076-119
3.20	844	168	1.60	0.42944	686-080-119
3.32	844	164	1.68	0.45628	686-083-119
3.56	804	160	1.76	0.46299	686-089-119
3.60	804	160	1.76	0.48983	686-090-119
3.80	764	148	1.92	0.51667	686-095-119
4.00	764	140	2.08	0.51667	686-100-119
4.08	764	140	2.08	0.51667	686-102-119
4.32	683	124	2.20	0.55693	686-108-119
4.40	683	120	2.28	0.57035	686-110-119
4.56	643	116	2.28	0.59719	686-114-119
4.60	643	116	2.36	0.60390	686-115-119
4.80	643	112	2.44	0.63074	686-120-119
5.00	563	104	2.52	0.65758	686-125-119
5.08	563	100	2.56	0.67100	686-127-119
5.20	522	92	2.60	0.68442	686-130-119
5.60	522	76	2.80	0.74481	686-140-119
6.00	482	68	3.00	0.80520	686-150-119
6.08	482	68	3.00	0.80520	686-152-119
6.40	442	60	3.20	0.85888	686-160-119
6.60	402	56	3.32	0.88572	686-165-119
6.92	402	52	3.48	0.93940	686-173-119
7.12	402	48	3.56	0.97295	686-178-119
7.20	402	48	3.6	0.99308	686-180-119
8.00	281	36	4.00	1.08702	686-200-119
8.12	281	36	4.04	1.10715	686-203-119
9.16	241	32	5.00	1.27490	686-229-119
10.00	201	28	6.00	1.40239	686-250-119
10.16	201	28	6.00	1.43594	686-254-119
12.00	121	16	8.40	1.71105	686-300-119
12.20	121	16	8.40	1.73118	686-305-119

* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Delivery forms:

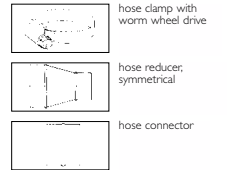
Standard production:

- Dia. .52" - 12.2"
- Color black
- Production lengths 10'

Available on request:

- special diameters
- special lengths
- with spiralfree sleeves

Installation and connection possibilities (see section no. 11 and 12):



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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +260°F



5.1.13

MASTER-CLIP NEOPRENE H

Material

hose wall: neoprene-coated polyester fabric
external helix: galvanized steel

Applications

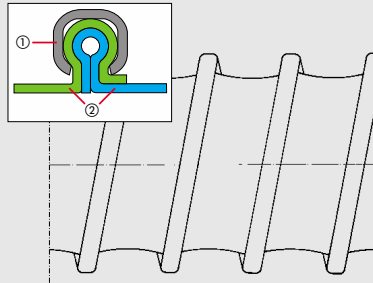
- transfer of hot or cold air
- air-conditioning/ventilation
- vehicle construction
- engine construction
- exhaust fumes equipment
- extraction of corrosive media
- chemical plants
- higher vacuum applications

Properties

- improved temperature resistance
- flame resistance (passes FTM 5903)
- good chemical resistance
- highly flexible
- extreme compressibility 1:6
- small bend radius
- vibration proof
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall: neoprene-coated polyester fabric



Temperature Range

- -30°F up to +260°F
 - intermittent to +300°F
- when used in exhaust gas systems, gas funnels should be used properly and enough fresh air should be utilized

Chem. Resistance

see resistance table register no. 15

Technical Data, custom designs and forms of delivery see back page

 **Masterduct**
Member of the Masterflex-Group

MASTER-CLIP NEOPRENE H

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.00	362	176	1.20	0.3355	234-050-107
2.20	342	145	1.32	0.3355	234-055-107
2.40	313	122	1.44	0.4026	234-060-107
2.60	273	104	1.56	0.4697	234-065-107
2.80	269	90	1.68	0.4697	234-070-107
3.00	249	78	1.80	0.5368	234-075-107
3.20	245	69	1.92	0.5368	234-080-107
3.60	225	54	2.16	0.6039	234-090-107
4.00	205	44	2.40	0.6710	234-100-107
4.40	193	37	2.64	0.7381	234-110-107
4.80	145	31	2.88	0.7381	234-120-107
5.00	133	28	3.00	0.8052	234-125-107
5.20	113	26	3.12	0.8052	234-130-107
5.60	100	23	3.36	0.8723	234-140-107
6.00	88	20	3.60	0.8723	234-150-107
6.40	84	17	3.84	0.8723	234-160-107
6.80	76	16	4.08	0.9394	234-170-107
7.00	74	15	4.20	0.9394	234-175-107
7.20	69	14	4.32	0.9394	234-180-107
8.00	59	11	4.80	1.0736	234-200-107
8.60	51	10	6.04	1.2078	234-215-107
9.00	46	9	6.32	1.3420	234-225-107
10.00	40	7	7.00	1.4091	234-250-107
11.00	32	6	7.72	1.5433	234-275-107
12.00	28	5	8.40	1.6104	234-300-107
12.60	25	4	8.84	1.7446	234-315-107
13.00	24	4	9.12	1.8788	234-325-107
14.00	23	4	9.80	2.2143	234-350-107
15.00	20	3	10.52	2.3485	234-375-107
16.00	19	3	11.20	2.5498	234-400-107
18.00	18	2	14.40	2.8182	234-450-107
20.00	17	2	16.00	3.1537	234-500-107
22.00	17	2	17.60	3.5563	234-550-107
24.00	16	1	19.20	3.9589	234-600-107
28.00	12	1	22.40	4.6299	234-700-107
32.00	9	1	25.60	5.0996	234-800-107
36.00	6	1	28.80	5.5022	234-900-107

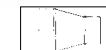
* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

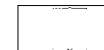
Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

Delivery forms:

Standard production:

- Dia. 2" - 36"
- Color black
- Production lengths 10', 25'

Available on request:

- special diameters
- special colors
- special lengths
- custom design with other pitches and helix sizes
- external helix also in stainless steel or aluminium
- double and triple layer fabric available



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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +570°F



5.1.14

MASTER-CLIP SILICON H

Material

hose wall: silicon-coated glass fabric
external helix: galvanized steel

Applications

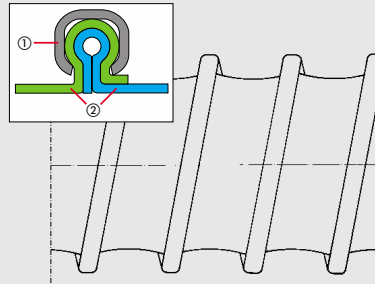
- hot air
- extraction equipment
- vehicle construction
- engine construction
- aircraft industries
- defense industries
- general engineering
- higher vacuum applications

Properties

- very high temperature resistance
- flame resistant
- highly flexible
- extreme compressibility 1:6
- small bend radius
- vibration resistant
- external steel helix protects against abrasion
- special clamping method guarantees high tensile strength between hose material and external helix

Construction

- ① external helix
- ② hose wall: silicon-coated glass fabric



Temperature Range

- -75°F up to +570°F
- intermittent to +625°F when used in exhaust gas systems, gas funnels should be used properly and enough fresh air should be utilized

Chem. Resistance

see resistance table register no. 15

Technical Data, custom designs and forms of delivery see back page

 **Masterduct**
Member of the Masterflex-Group

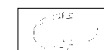
MASTER-CLIP SILICON H

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
2.0	342	141	1.20	0.3355	233-050-116
2.2	313	117	1.32	0.4026	233-055-116
2.4	273	98	1.44	0.4026	233-060-116
2.6	237	84	1.56	0.4697	233-065-116
2.8	213	70	1.68	0.4697	233-070-116
3.0	189	62	1.80	0.5368	233-075-116
3.2	173	55	1.92	0.5368	233-080-116
3.6	143	44	2.16	0.5368	233-090-116
4.0	121	35	2.40	0.5368	233-100-116
4.4	104	29	2.64	0.6039	233-110-116
4.8	90	25	2.88	0.6039	233-120-116
5.0	84	20	3.00	0.6710	233-125-116
5.2	79	21	3.12	0.6710	233-130-116
5.6	70	18	3.36	0.6710	233-140-116
6.0	63	16	3.06	0.7381	233-150-116
6.4	56	14	3.84	0.7381	233-160-116
6.8	51	12	4.08	0.7381	233-170-116
7.0	49	12	4.20	0.8723	233-175-116
7.2	47	11	4.32	0.8723	233-180-116
8.0	40	9	4.80	1.0065	233-200-116
8.6	35	8	6.04	1.0736	233-215-116
9.0	33	7	6.32	1.2078	233-225-116
10.0	28	6	7.00	1.3420	233-250-116
11.0	24	5	7.72	1.6104	233-275-116
12.0	21	4	8.40	1.7446	233-300-116
12.6	19	4	8.84	1.7446	233-315-116
13.0	18	3	9.12	1.8788	233-325-116
14.0	16	3	9.80	2.0801	233-350-116
15.0	14	3	10.52	2.4156	233-375-116
16.0	13	2	11.20	2.6169	233-400-116
18.0	11	2	14.40	3.0195	233-450-116
20.0	9	1	16.00	3.4221	233-500-116
22.0	8	1	17.60	3.8918	233-550-116
24.0	7	1	19.20	4.2944	233-600-116
28.0	6	1	22.40	5.0325	233-700-116
32.0	4	1	25.60	5.7706	233-800-116
36.0	4	1	28.80	6.5758	233-900-116

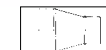
* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

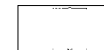
Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

Delivery forms:

Standard production:

- Dia. 2" - 36"
- Color silver grey
- Production lengths 20', 25'

Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes
- external helix also in stainless steel or aluminium



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MEDIUM AND HIGH TEMPERATURE HOSE FOR TEMPERATURES UP TO +1000°F



5.1.15

MASTER-CLIP HT 1000

Material

hose wall: special-coated high temperature fabric, asbestos free, reinforced by woven in stainless steel wire

external helix: galvanized steel

Properties

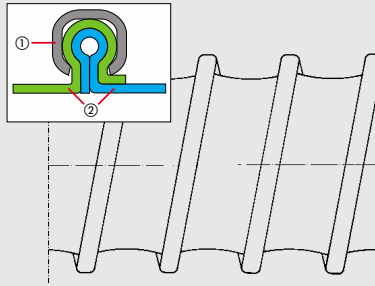
- very high temperature resistance
- silicone free
- highly flexible
- extreme compressibility 1:6
- small bend radius
- improved vacuum-resistance by woven in reinforcement
- external steel helix protects against abrasion
- suitable for continually flexing
- special clamping method guarantees high tensile strength between hose material and external helix

Applications

- hot air
- suction plants
- furnace construction
- iron and steel works
- engine construction
- radiant heat protection
- primary suitable as extraction hose
- low pressure applications
- not recommended for diesel exhaust applications

Construction

- ① external helix
- ② hose wall: special-coated high temperature fabric



Temperature Range

- -5°F up to +1000°F
- intermittent to +1100°F

small amounts of smoke maybe given off when used under positive pressure or with low extraction rates. For a gas-tight seal we recommend our hose types MASTER-CLIP KAPTON, MASTER-CLIP HT 930 or HT-PRESSURE HOSES (see Reg. 5 and 6)

Technical Data, custom designs and forms of delivery see back page

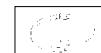
MASTER-CLIP HT 1000

Dia. (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Weight (lbs./ft.)	Product code
1.52	366	163	0.92	0.3355	235-038-111
1.60	362	158	0.96	0.3355	235-040-111
1.80	350	150	1.08	0.3355	235-045-111
2.00	342	141	1.20	0.3355	235-050-111
2.20	313	117	1.32	0.4026	235-055-111
2.40	273	98	1.44	0.4026	235-060-111
2.60	237	84	1.56	0.4697	235-065-111
2.80	213	70	1.68	0.4697	235-070-111
3.00	189	62	1.80	0.5368	235-075-111
3.20	173	55	1.92	0.5368	235-080-111
3.60	143	44	2.16	0.5368	235-090-111
4.00	121	35	2.40	0.5368	235-100-111
4.40	104	29	2.64	0.6039	235-110-111
4.80	90	25	2.88	0.6039	235-120-111
5.00	84	22	3.00	0.6710	235-125-111
5.20	79	21	3.12	0.6710	235-130-111
5.60	70	18	3.36	0.6710	235-140-111
6.00	63	16	3.60	0.7381	235-150-111
6.40	56	14	3.84	0.7381	235-160-111
6.80	51	12	4.08	0.7381	235-170-111
7.00	49	12	4.20	0.8723	235-175-111
7.20	47	11	4.32	0.8723	235-180-111
8.00	40	9	4.80	1.0065	235-200-111
8.60	35	8	6.04	1.0736	235-215-111
9.00	33	7	6.32	1.2078	235-225-111
10.00	28	6	7.00	1.3420	235-250-111
11.00	24	5	7.72	1.6104	235-275-111
12.00	21	4	8.40	1.7446	235-300-111
12.60	19	4	8.84	1.7446	235-315-111
13.00	18	3	9.12	1.8788	235-325-111
14.00	16	3	9.80	2.0801	235-350-111
15.00	14	3	10.52	2.4156	235-375-111
16.00	13	2	11.20	2.6169	235-400-111
18.00	11	2	14.40	3.0195	235-450-111
20.00	9	1	16.00	3.4221	235-500-111
22.00	8	1	17.60	3.8918	235-550-111
24.00	7	1	19.20	4.2944	235-600-111
28.00	6	1	22.40	5.0325	235-700-111
32.00	4	1	25.60	5.7706	235-800-111
36.00	4	1	28.80	6.5758	235-900-111

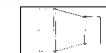
* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

Installation and connection possibilities (see section no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

Delivery forms:

Standard production:

- Dia. 1.52" - 36"
- Color silver
- Production lengths 20', 25'

Available on request:

- special colors
- special lengths
- special diameters
- custom design with other pitches and helix sizes
- external helix also in stainless steel



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SPECIAL HOSE CLAMP FOR MASTER-CLIP HOSES



CLIP-GRIP

Material

clamp band: galvanized steel
screw casing: galvanized steel
bridge: galvanized steel

Properties

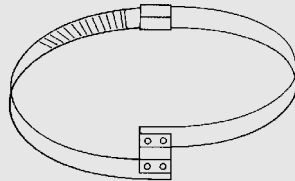
- rust resistant
- easy to install
- extra strength

Applications

- special hose clamps for securing all types of hoses from the MASTER-CLIP series on mobile and stationary units

Construction

- hose clamp with one or more worm drive(s)
- with a hexagon head screw
- with one or more spot-welded bridges



Technical Data, custom designs and forms of delivery see back page

CLIP-GRIP

For MASTER-CLIP hoses (Dia.)	Clamping range (in.)	Product code
1.52" thru 36"	1.52" thru 36"	530-038-100 thru 530-900-100

Note:

CLIP-GRIP worm drive hose clamps are only suitable for securing MASTER-CLIP hoses. We recommend our standard worm drive hose clamps or heavy duty bolted clamps for securing other spiral hoses.

Delivery forms:

Standard production:

- clamping ranges from 1.52" - 36.2"

Available on request:

- in stainless steel
- other clamping ranges
- reinforced clamps with additional bridges



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CARFLEX SUPER + MASTER-PUR STEP



11.2

CAR-GRIP

Material

clamp band: galvanized steel
screw casing: galvanized steel
bridge: stainless steel

Properties

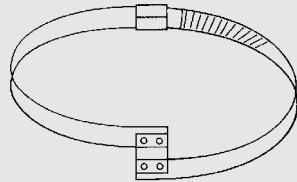
- rust resistant
- easy to install
- extra strength

Applications

- special hose clamps for securing CARFLEX SUPER and MASTER-PUR STEP hoses on mobile and stationary units

Construction

Hose clamp with worm drive with hexagon recessed head screw and spot-welded bridge



Technical Data, custom designs and forms of delivery see back page

CAR-GRIP

for CARFLEX-SUPER and MASTER-PUR STEP (Dia.)	Clamping range (in.)	Product code
2.4" thru 10"	2.4" thru 12"	531-060-100 thru 531-250-100

Note:

CAR-GRIP worm drive hose clamps are only suitable for securing CARFLEX SUPER hoses. We recommend our standard worm drive hose clamps or heavy duty bolted clamps for securing other spiral hoses.

Delivery forms:

Standard production:

- clamping ranges from 2.4" - 12"

Available on request:

- in stainless steel
- other clamping ranges



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HOSE CLAMP, BOLT CLAMP



11.3

HOSE CLAMP, BOLT CLAMP

Material

clamp band: galvanized steel
screws: galvanized steel

Applications

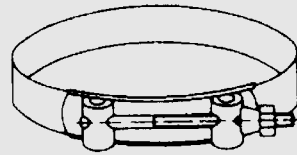
- for attaching medium-weight and heavy spiral hoses onto connecting branches on mobile and stationary units

Properties

- rust resistant
- extra strength
- band width .70" - 1.0"
- band thickness .023" - .063"

Construction

Large strip hose clamp with fastening lug



Technical Data, custom designs and forms of delivery see back page

HOSE CLAMP, BOLT CLAMP

Clamping range (in.)	Width x thickness (in.)	Product code
1.25" thru 20"	.80" x .03" thru 1.00" x .04"	621-032-115 thru 621-500-115

Note:

Heavy duty bolted clamps are suitable for the mounting of medium and heavy weight spiral hose types. For the mounting of lightweight hose qualities we recommend worm drive hose clamps.

Delivery forms:

Standard production:
● clamping ranges from 1.25" - 20"

Available on request:

- in stainless steel
- other clamping ranges



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HOSE CLAMP WITH WORM GEAR DRIVE



11.4

HOSE CLAMP WITH WORM GEAR DRIVE

Material

clamp band: galvanized steel
screw casing: galvanized steel

Properties

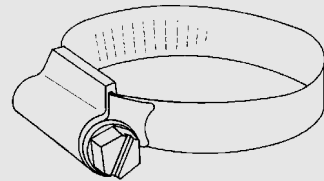
- rust resistant
- extra strength

Applications

- for attaching light spiral hoses onto connecting branches on mobile and stationary units

Construction

one-piece hose band clamps with a hexagon head screw, recessed



Technical Data, custom designs and forms of delivery see back page

HOSE CLAMP WITH WORM GEAR DRIVE

Clamping range (in.)	Product code
1" thru 20"	620-025-100 thru 620-500-100

Delivery forms:

- Standard production:
- clamping ranges from 1" - 20"
- Available on request:
- in stainless steel
 - other clamping ranges

Note:

Worm drive hose clamps are suitable for the mounting of lightweight spiral hose types. For the mounting of heavy weight hose qualities we recommend the heavy duty bolted clamps.



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HOSE REDUCER



11.5

HOSE REDUCER

Material

galvanized steel

Applications

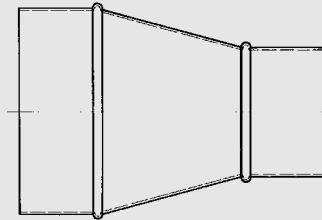
- for extending, connecting and attaching lightweight or medium weight hoses

Properties

- easy to install
- lightweight
- resistant to corrosion

Construction

reducer of rolled sheet steel with beadings on both ends



Technical Data, custom designs and forms of delivery see back page

HOSE REDUCER

(Dia. 1)	(Dia. 2)	S Ga.	L1 (in.)	L2 (in.)	Product code
3" thru 12"	2" thru 10"	24	3.5"	3"	632-080-050 thru 632-300-250

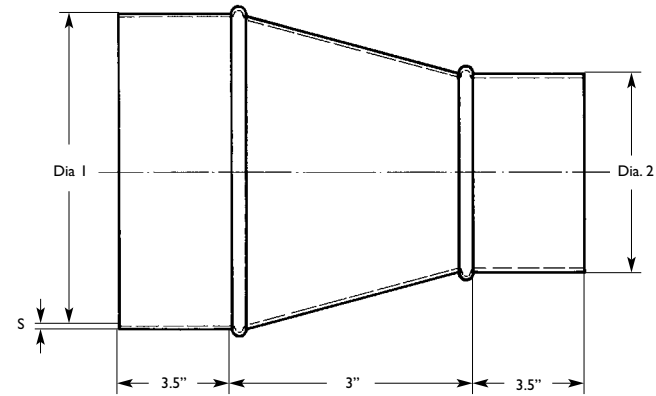
Delivery forms:

Standard production:

- galvanized steel

Available on request:

- special diameters
- stainless steel



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HOSE CONNECTOR



11.6

HOSE CONNECTOR

Material

galvanized steel

Applications

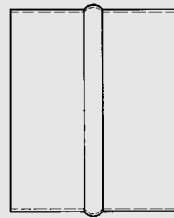
- extending, connecting and attaching lightweight or medium weight hoses

Properties

- easy to install
- lightweight
- resistant to corrosion

Construction

rolled sheet steel with beandings



Technical Data, custom designs and forms of delivery see back page

HOSE CONNECTOR

(Dia.)	Ga.	L (in.)	Product code
2" thru 36"	24	3.5"	630-050-100 thru 630-900-100

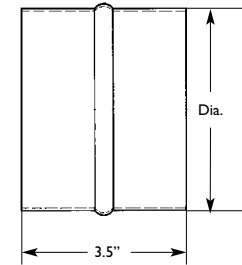
Delivery forms:

Standard production:

- galvanized steel

Available on request:

- special sizes
- stainless steel



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