

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

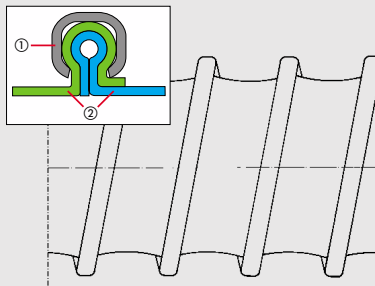
- fume exhaustion in pressure applications
- vehicle and engine construction
- exhaust-fume extraction from high performance test beds in the motor vehicle industries

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

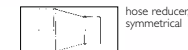


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Installation and connection possibilities (see section no. 11 and 12):



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

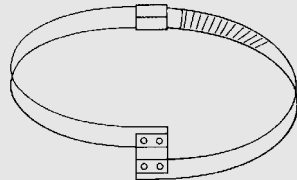
- rust resistant
- easy to install
- extra strength

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

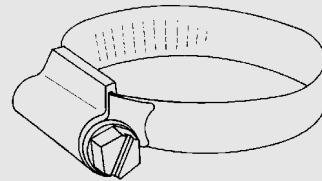
- rust resistant
- extra strength

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

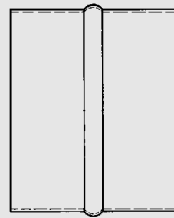
- extending, connecting and attaching lightweight or medium weight hoses

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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