

SUCTION AND TRANSPORT HOSE - MEDIUM WEIGHT



I.1.3

MASTER-PUR H

Material

hose wall: 100 % pure polyester polyurethane. 30% more abrasion-resistant than polyether polyurethane

spiral: PU-coated spring steel wire

Applications

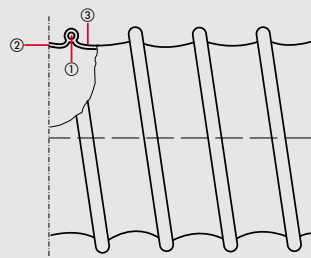
- suction and transport hose for abrasive materials
- gaseous and liquid media
- suction of paper and textile fibers
- transport of small particled dusts and powders
- oil-spray extraction
- protection hose against mechanical pressure

Properties

- highly abrasion-resistant
- resistant to oil and fuels
- gas-tight
- good chemical resistance
- resistant to solvents
- free of plastizisers and halogens
- UV- and ozone-resistant
- very flexible; light weight
- small bend radius
- improved pressure and vacuum characteristics
- high tensile and burst strength
- smooth inside, for optimum flow characteristics
- electrically conductive by grounding spiral

Construction

- ① PU-coated spring steel spiral
- ② hose wall: polyester polyurethane
- ③ wall thickness between spirals .055"



Temperature Range

- -40 °F up to +195 °F
- intermittent to +260 °F

Chem. Resistance

see resistance table section no. 15

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

MASTER-PUR H

Dia (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Outer Dia (in.)	Weight (lbs./ft.)	Product code
2.0	1,166	320	3.48	2.44	0.37576	313-050-401
2.4	1,025	300	4.08	2.80	0.44286	313-060-401
2.6	965	270	4.48	3.00	0.48312	313-065-401
2.8	904	270	4.68	3.20	0.51667	313-070-401
3.0	804	240	5.04	3.48	0.55022	313-075-401
3.2	804	240	5.28	3.64	0.58377	313-080-401
3.6	663	210	5.96	4.04	0.65087	313-090-401
4.0	603	180	6.60	4.48	0.72468	313-100-401
4.4	543	180	7.16	4.84	0.79178	313-110-401
4.6	543	125	7.44	5.04	0.82533	313-115-401
4.8	522	125	7.76	5.24	0.86559	313-120-401
5.0	522	125	8.12	5.52	0.89914	313-125-401
5.2	522	125	8.36	5.64	0.93269	313-130-401
5.6	422	100	8.96	6.04	1.04676	313-140-401
6.0	422	100	9.68	6.52	1.11386	313-150-401
6.4	362	100	10.20	6.84	1.18767	313-160-401
6.8	362	75	10.80	7.24	1.26148	313-170-401
7.0	362	75	11.12	7.44	1.29503	313-175-401
7.2	301	75	11.40	7.64	1.33529	313-180-401
8.0	301	75	12.84	8.60	1.91906	313-200-401
9.0	241	50	14.12	9.48	2.15391	313-225-401
10.0	241	50	15.60	10.52	2.38876	313-250-401
11.0	181	50	17.04	11.52	2.62361	313-275-401
11.0	181	50	17.40	11.72	2.67058	313-280-401
12.0	181	50	18.60	12.52	2.85846	313-300-401
12.6	181	50	19.52	13.12	2.99937	313-315-401
13.0	181	50	20.12	13.52	3.09331	313-325-401
14.0	181	50	21.60	14.52	3.32816	313-350-401
16.0	121	27	24.60	16.52	3.79786	313-400-401

* 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:

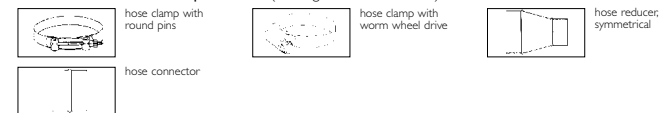
Standard production:

- Dia. 2" - 16"
- Color: clear
- Standard lengths: 25'

Available on request:

- with overprint
- special colors
- special lengths

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



Pacific Air Consultants, Inc.

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La Center, Washington 98629 USA
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web- PacAir.net - Email- Sales@PacAir.net



SUCTION AND TRANSPORT HOSE - MEDIUMWEIGHT



I.4.3

MASTER-PUR H-EC

Material

hose wall: electrically conductive polyurethane
spiral: PU-coated spring steel wire

Applications

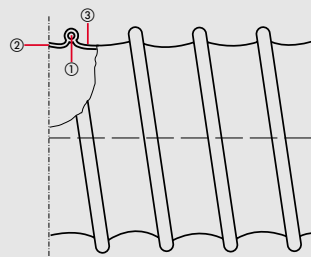
- dangerous areas, where electrical conductivity is demanded
- special hose for industrial vacuum cleaners
- suction and transport of paper fibers and wood chips
- transport of granules
- suction and transport of abrasive materials, gaseous and liquid media
- extraction of coarse-grained particles with high flow volume
- oil-spray extraction
- protection hose against mechanical damage

Properties

- **surface resistance**
 $R_O = 10^4 \text{ Ohm}$
- electrically conductive
- abrasion-resistant
- very flexible, lightweight
- small bend radius
- resistant to oil and fuels, gastight
- free of plastisizers and halogens
- good chemical resistance
- UV- and ozone-resistant
- improved pressure and vacuum characteristics
- high tensile and burst strength
- optimum flow characteristics

Construction

- ① PU-coated spring steel spiral
- ② hose wall: polyester polyurethane
- ③ wall thickness between spirals .055"



Temperature Range

- -40 °F up to +195°F
- intermittent to +260°F

Chem. Resistance

see resistance table section no. 15

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

MASTER-PUR H-EC

Dia (in.)	Positive (in. w.c.)	Negative (in. w.c.)	*Bending radius (in.)	Outer Dia (in.)	Weight (lbs./ft.)	Product code
2.0	1,166	320	3.48	2.44	0.37576	343-050-207
2.4	1,025	300	4.08	2.80	0.44286	343-060-207
2.6	965	270	4.48	3.00	0.48312	343-065-207
2.8	904	270	4.68	3.20	0.51667	343-070-207
3.0	804	240	5.04	3.48	0.55022	343-075-207
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14.0	181	50	21.60	14.52	3.32816	343-350-207
16.0	121	27	24.60	16.52	3.79786	343-400-207

* 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" - 16"
 - Color black
 - Standard lengths 25'
- Available on request:**
- with overprint
 - special colors
 - special lengths



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



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

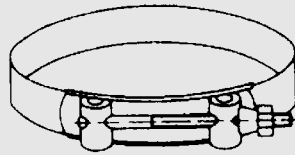
- for attaching medium-weight and heavy spiral hoses onto connecting branches on mobile and stationary units

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

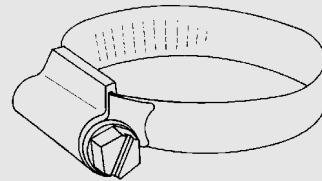
- rust resistant
- extra strength

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

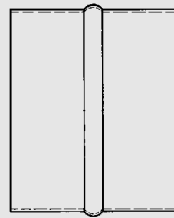
- extending, connecting and attaching lightweight or medium weight hoses

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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