

SUCTION AND TRANSPORT HOSE - LIGHTWEIGHT



I.1.2

MASTER-PUR L

Material

hose wall: 100 % pure polyester polyurethane. 30% more abrasion-resistant than polyether polyurethane
spiral: PU-coated spring steel wire

Properties

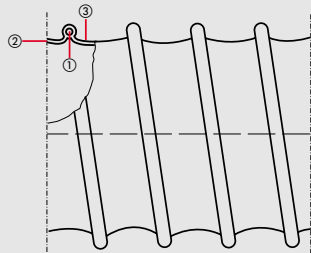
- highly abrasion-resistant
- resistant to oil and fuels
- gas-tight
- good chemical resistance
- free of plastizers and halogens
- UV- and ozone-resistant
- lightweight
- extremely flexible
- small bend radius
- high tensile and burst strength
- smooth inside, for optimum flow characteristics
- electrically conductive by grounding spiral

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

Construction

- ① PU-coated spring steel spiral
- ② hose wall: polyester polyurethane
- ③ wall thickness between spirals .0275"



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 L

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Outer Dia (in.) | Weight (lbs./ft.) | Product code |
|-----------|---------------------|---------------------|-----------------------|-----------------|-------------------|--------------|
| 2.0 | 675 | 210 | 2.32 | 2.32 | 0.23485 | 312-050-401 |
| 2.4 | 563 | 180 | 2.72 | 2.72 | 0.30866 | 312-060-401 |
| 2.6 | 506 | 150 | 2.92 | 2.92 | 0.32879 | 312-065-401 |
| 2.8 | 450 | 150 | 3.12 | 3.12 | 0.35563 | 312-070-401 |
| 3.0 | 450 | 120 | 3.36 | 3.36 | 0.39589 | 312-075-401 |
| 3.2 | 394 | 120 | 3.52 | 3.52 | 0.42273 | 312-080-401 |
| 3.6 | 338 | 90 | 3.96 | 3.96 | 0.46970 | 312-090-401 |
| 4.0 | 338 | 90 | 4.40 | 4.40 | 0.52338 | 312-100-401 |
| 4.4 | 281 | 90 | 4.76 | 4.76 | 0.57035 | 312-110-401 |
| 4.6 | 281 | 90 | 4.96 | 4.96 | 0.59719 | 312-115-401 |
| 4.8 | 281 | 90 | 5.16 | 5.16 | 0.62403 | 312-120-401 |
| 5.0 | 281 | 90 | 5.40 | 5.40 | 0.65087 | 312-125-401 |
| 5.2 | 225 | 90 | 5.56 | 5.56 | 0.67100 | 312-130-401 |
| 5.6 | 225 | 60 | 5.96 | 5.96 | 0.83204 | 312-140-401 |
| 6.0 | 225 | 60 | 6.44 | 6.44 | 0.88572 | 312-150-401 |
| 6.4 | 225 | 60 | 6.80 | 6.80 | 0.98637 | 312-160-401 |
| 6.8 | 169 | 60 | 7.20 | 7.20 | 0.99979 | 312-170-401 |
| 7.0 | 169 | 60 | 7.40 | 7.40 | 1.03334 | 312-175-401 |
| 7.2 | 169 | 60 | 7.60 | 7.60 | 1.06018 | 312-180-401 |
| 8.0 | 169 | 60 | 8.56 | 8.56 | 1.09373 | 312-200-401 |
| 9.0 | 113 | 30 | 9.40 | 9.40 | 1.22793 | 312-225-401 |
| 10.0 | 113 | 30 | 10.40 | 10.40 | 1.36213 | 312-250-401 |
| 11.0 | 113 | 30 | 11.36 | 11.36 | 1.49633 | 312-275-401 |
| 11.2 | 113 | 30 | 11.60 | 11.60 | 1.52317 | 312-280-401 |
| 12.0 | 100 | 27 | 12.40 | 12.40 | 1.63053 | 312-300-401 |
| 12.6 | 100 | 27 | 13.00 | 13.00 | 1.71105 | 312-315-401 |
| 13.0 | 100 | 27 | 13.40 | 13.40 | 1.76473 | 312-325-401 |
| 14.0 | 52 | 27 | 14.40 | 14.40 | 1.89893 | 312-350-401 |
| 16.0 | 52 | 21 | 16.40 | 16.40 | 2.16733 | 312-400-401 |

* 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:

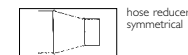
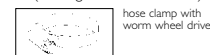
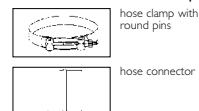
Standard production:

- 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.

P.O. Box 426 - 33100 NE Ivy Avenue
 La Center, Washington 98629 USA
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 web- PacAir.net - Email- Sales@PacAir.net

FILM HOSE - LIGHTWEIGHT, VERY FLEXIBLE AND COMPRESSIBLE



1.1.1

MASTER-PUR SL

Material

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

spiral: PU-coated spring steel wire

Applications

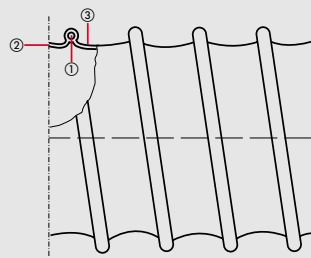
- suction and transport hose for abrasive materials
- gaseous and liquid media
- suction of paper and textile fibers
- transport of small particled dusts and powders
- oil-spray extraction
- protection hose against mechanical pressure

Properties

- reinforced by spring steel spiral
- extremely flexible
- small bend radius
- high tensile and burst strength
- super lightweight
- highly abrasion-resistant
- kink-proof
- compressible down to 20%
- solvents, oil and fuels-resistant
- gas-tight
- free of plastisizers and halogens
- UV- and ozone-resistant
- 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 .02"



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 SL

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Outer Dia (in.) | Weight (lbs./ft.) | Product code |
|-----------|---------------------|---------------------|-----------------------|-----------------|-------------------|--------------|
| 2.40 | 305 | 76 | 1.40 | 2.72 | 0.22143 | 311-060-401 |
| 2.52 | 289 | 70 | 1.48 | 2.84 | 0.22814 | 311-063-401 |
| 2.60 | 273 | 64 | 1.52 | 2.92 | 0.24156 | 311-065-401 |
| 2.80 | 245 | 64 | 1.60 | 3.12 | 0.25498 | 311-070-401 |
| 3.00 | 245 | 52 | 1.72 | 3.32 | 0.33550 | 311-075-401 |
| 3.20 | 213 | 52 | 1.80 | 3.52 | 0.35563 | 311-080-401 |
| 3.60 | 185 | 38 | 2.00 | 3.96 | 0.39589 | 311-090-401 |
| 4.00 | 185 | 38 | 2.20 | 4.32 | 0.44286 | 311-100-401 |
| 4.40 | 153 | 38 | 2.40 | 4.76 | 0.48983 | 311-110-401 |
| 4.60 | 153 | 38 | 2.52 | 4.96 | 0.50996 | 311-115-401 |
| 4.80 | 153 | 38 | 2.60 | 5.16 | 0.53009 | 311-120-401 |
| 5.00 | 153 | 38 | 2.72 | 5.36 | 0.55693 | 311-125-401 |
| 5.20 | 121 | 38 | 2.80 | 5.56 | 0.57706 | 311-130-401 |
| 5.60 | 121 | 26 | 3.00 | 5.96 | 0.61732 | 311-140-401 |
| 6.00 | 121 | 26 | 3.20 | 6.36 | 0.66429 | 311-150-401 |
| 6.40 | 121 | 26 | 3.40 | 6.76 | 0.67100 | 311-160-401 |
| 6.80 | 92 | 26 | 3.60 | 7.16 | 0.71797 | 311-170-401 |
| 7.00 | 92 | 26 | 3.72 | 7.36 | 0.73810 | 311-175-401 |
| 7.20 | 92 | 26 | 3.80 | 7.56 | 0.75823 | 311-180-401 |
| 8.00 | 92 | 26 | 4.20 | 8.40 | 0.78507 | 311-200-401 |
| 9.00 | 60 | 12 | 4.72 | 9.40 | 0.80520 | 311-225-401 |
| 10.00 | 60 | 12 | 5.20 | 10.40 | 1.20109 | 311-250-401 |
| 11.00 | 60 | 12 | 5.72 | 11.40 | 1.32187 | 311-275-401 |
| 11.20 | 60 | 12 | 5.80 | 11.60 | 1.34871 | 311-280-401 |
| 12.00 | 56 | 11 | 6.20 | 12.40 | 1.44265 | 311-300-401 |
| 14.00 | 48 | 8 | 7.20 | 14.40 | 1.67750 | 311-350-401 |
| 16.00 | 40 | 5 | 8.20 | 16.40 | 1.91235 | 311-400-401 |

* 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:

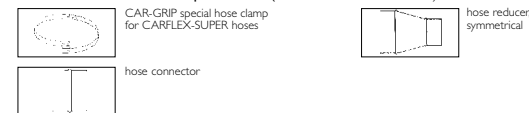
Standard production:

- Dia. 2.4" - 16"
- Color clear
- Standard lengths 25'

Available on request:

- with overprint
- special colors
- special lengths

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



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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

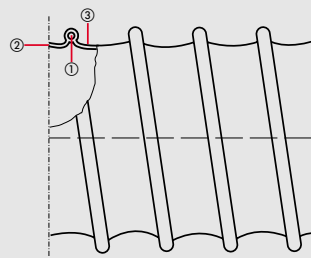
- suction and transport hose for abrasive materials
- gaseous and liquid media
- suction of paper and textile fibers
- transport of small particled dusts and powders
- oil-spray extraction
- protection hose against mechanical pressure

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:

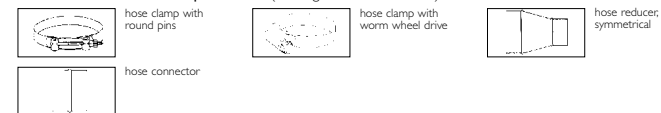
Standard production:

- 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):



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SUCTION AND TRANSPORT HOSE - HIGHLY ABRASION RESISTANT AND VACUUM PROOF



1.1.4

MASTER-PUR HH

Material

hose wall: 100 % pure polyester polyurethane. 30 % more abrasion resistant than polyether polyurethane
spiral: spring steel wire

Applications

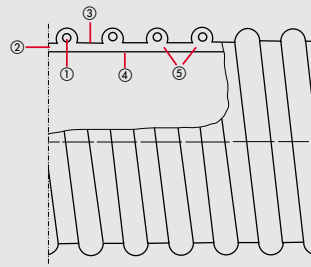
- suction and transporthose
- for silo trucks and loading equipment
- special construction for extremely abrasive bulk and solids
- transport hose for difficult materials, such as sand, gravel, grain
- for highest demands of service-life and abrasion resistance

Properties

- extremely abrasion resistant by selective reinforcement below the spiral
- long service life
- smooth inside, for optimum flow characteristics
- good flexibility
- high tensile and rupture strength
- high vacuum and pressure rating
- gas-tight
- free of plastizisers
- free of halogens
- good chemical resistance
- resistant to oil and fuels
- UV- and ozone resistant
- electrically conductive by grounding spiral

Construction

- ① PU-coated spring steel spiral
- ② hose wall: polyester polyurethane
- ③ wall thickness between spirals .078"
- ④ inner hose wall smooth
- ⑤ spirals close together



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

 **Masterduct**
Member of the Masterflex-Group

MASTER-PUR HH

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Outer Dia (in.) | Weight (lbs./ft.) | Product code |
|-----------|---------------------|---------------------|-----------------------|-----------------|-------------------|--------------|
| 2.0 | 1,600 | 380 | 05.00 | 2.48 | 00.57 | 314-050-401 |
| 2.4 | 1,445 | 360 | 06.00 | 2.87 | 00.80 | 314-060-401 |
| 2.6 | 1,325 | 360 | 06.50 | 3.03 | 00.87 | 314-065-401 |
| 2.8 | 1,265 | 360 | 07.00 | 3.22 | 00.95 | 314-070-401 |
| 3.0 | 1,170 | 360 | 07.50 | 3.42 | 01.13 | 314-075-401 |
| 3.2 | 1,110 | 360 | 08.00 | 3.65 | 01.20 | 314-080-401 |
| 3.6 | 965 | 360 | 09.00 | 4.05 | 01.34 | 314-090-401 |
| 4.0 | 840 | 350 | 10.00 | 4.44 | 01.48 | 314-100-401 |
| 4.4 | 780 | 350 | 11.00 | 4.88 | 01.64 | 314-110-401 |
| 4.6 | 720 | 350 | 11.50 | 5.08 | 01.73 | 314-115-401 |
| 4.8 | 660 | 350 | 12.00 | 5.27 | 01.81 | 314-120-401 |
| 5.0 | 660 | 350 | 12.50 | 5.47 | 01.91 | 314-125-401 |
| 5.2 | 660 | 340 | 13.00 | 5.67 | 01.98 | 314-130-401 |
| 5.6 | 600 | 330 | 14.00 | 6.06 | 02.15 | 314-140-401 |
| 6.0 | 600 | 330 | 15.00 | 6.45 | 02.42 | 314-150-401 |

* 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" - 6"
 - Color: clear
 - Standard lengths 25'
- Available on request:**
- colored
 - with overprint
 - special lengths
 - microbe-resistant
 - hydrolysis-proof
 - electrically conductive
 - food grade



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



SUCTION AND TRANSPORT HOSE - MEDIUM WEIGHT



1.2.3

FLAMEX H

Material

hose wall: 100 % pure polyester polyurethane with addition of flame protection. 30% more abrasion-resistant than polyether polyurethane
spiral: PU-coated spring steel wire

Applications

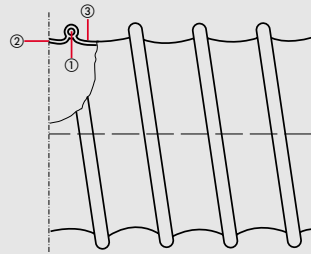
- transport hose for abrasive solids in fire risk areas
- woodworking machines
- exhaust equipment in wood-working industries
- protection hose against mechanical pressure

Properties

- conforms to the requirements of the German Professional Woodworking Association
- flame resistant
- 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

FLAMEX H

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Outer Dia (in.) | Weight (lbs./ft.) | Product code |
|-----------|---------------------|---------------------|-----------------------|-----------------|-------------------|--------------|
| 2.00 | 1,166 | 320 | 3.48 | 2.44 | 0.37576 | 323-050-601 |
| 2.40 | 1,025 | 300 | 4.08 | 2.80 | 0.44286 | 323-060-601 |
| 2.60 | 965 | 270 | 4.48 | 3.00 | 0.48312 | 323-065-601 |
| 2.80 | 904 | 270 | 4.68 | 3.20 | 0.51667 | 323-070-601 |
| 3.00 | 804 | 240 | 5.04 | 3.48 | 0.55022 | 323-075-601 |
| 3.20 | 804 | 240 | 5.28 | 3.64 | 0.58377 | 323-080-601 |
| 3.60 | 663 | 210 | 5.96 | 4.04 | 0.65087 | 323-090-601 |
| 4.00 | 603 | 180 | 6.60 | 4.48 | 0.72468 | 323-100-601 |
| 4.40 | 543 | 180 | 7.16 | 4.84 | 0.79178 | 323-110-601 |
| 4.60 | 543 | 125 | 7.44 | 5.04 | 0.82533 | 323-115-601 |
| 4.80 | 522 | 125 | 7.76 | 5.24 | 0.86559 | 323-120-601 |
| 5.00 | 522 | 125 | 8.12 | 5.52 | 0.89914 | 323-125-601 |
| 5.20 | 522 | 125 | 8.36 | 5.64 | 0.93269 | 323-130-601 |
| 5.60 | 422 | 100 | 8.96 | 6.04 | 1.04676 | 323-140-601 |
| 6.00 | 422 | 100 | 9.68 | 6.52 | 1.11386 | 323-150-601 |
| 6.40 | 362 | 100 | 10.20 | 6.84 | 1.18767 | 323-160-601 |
| 6.80 | 362 | 75 | 10.80 | 7.24 | 1.26148 | 323-170-601 |
| 7.00 | 362 | 75 | 11.12 | 7.44 | 1.29503 | 323-175-601 |
| 7.20 | 301 | 75 | 11.40 | 7.64 | 1.33529 | 323-180-601 |
| 8.00 | 301 | 75 | 12.84 | 8.60 | 1.91906 | 323-200-601 |
| 9.00 | 241 | 50 | 14.12 | 9.48 | 2.15391 | 323-225-601 |
| 10.00 | 241 | 50 | 15.60 | 10.52 | 2.38876 | 323-250-601 |
| 11.00 | 181 | 50 | 17.04 | 11.52 | 2.62361 | 323-275-601 |
| 11.20 | 181 | 50 | 17.40 | 11.72 | 2.67058 | 323-280-601 |
| 12.00 | 181 | 50 | 18.6 | 12.52 | 2.85846 | 323-300-601 |
| 12.60 | 181 | 50 | 19.52 | 13.12 | 2.99937 | 323-315-601 |
| 13.00 | 181 | 50 | 20.12 | 13.52 | 3.09331 | 323-325-601 |
| 14.00 | 181 | 50 | 21.60 | 14.52 | 3.32816 | 323-350-601 |
| 16.00 | 121 | 27 | 24.60 | 16.52 | 3.79786 | 323-400-601 |

* 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

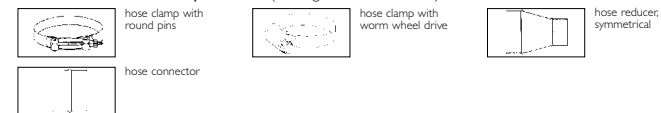


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Installation and connection possibilities (see register no. 11 and 12):



SUCTION AND TRANSPORT HOSE - LIGHTWEIGHT AND FLEXIBLE



1.2.2

FLAMEX L

Material

hose wall: 100 % pure polyester polyurethane with addition of flame protection. 30% more abrasion-resistant than polyether polyurethane
spiral: PU-coated spring steel wire

Applications

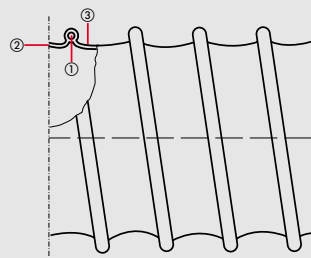
- transport hose for abrasive solids in fire risk areas
- woodworking machines
- exhaust equipment in wood-working industries
- protection hose against mechanical pressure

Properties

- conforms to the requirements of the German Professional Woodworking Association
- flame resistant
- highly flexible
- high tensile and burst strength
- lightweight
- extremely abrasion-resistant
- small bend radius
- kink-proof
- good resistance to solvents, oil and fuels
- free of plastizisers and halogens
- UV- and ozone-resistant
- symmetrical bending
- 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 .0275"



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

FLAMEX L

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Outer Dia (in.) | Weight (lbs./ft.) | Product code |
|-----------|---------------------|---------------------|-----------------------|-----------------|-------------------|--------------|
| 2.40 | 506 | 126 | 2.72 | 2.72 | 0.30866 | 322-060-601 |
| 2.52 | 482 | 116 | 2.84 | 2.84 | 0.32208 | 322-063-601 |
| 2.60 | 454 | 105 | 2.92 | 2.92 | 0.32879 | 322-065-601 |
| 2.80 | 406 | 105 | 3.12 | 3.12 | 0.35563 | 322-070-601 |
| 3.00 | 406 | 84 | 3.36 | 3.32 | 0.39589 | 322-075-601 |
| 3.20 | 354 | 84 | 3.52 | 3.52 | 0.42273 | 322-080-601 |
| 3.60 | 305 | 63 | 3.96 | 3.96 | 0.46970 | 322-090-601 |
| 4.00 | 305 | 63 | 4.40 | 4.32 | 0.52338 | 322-100-601 |
| 4.40 | 253 | 63 | 4.76 | 4.76 | 0.57035 | 322-110-601 |
| 4.60 | 253 | 63 | 4.96 | 4.96 | 0.59719 | 322-115-601 |
| 4.80 | 253 | 63 | 5.16 | 5.16 | 0.62403 | 322-120-601 |
| 5.00 | 253 | 63 | 5.40 | 5.36 | 0.65087 | 322-125-601 |
| 5.20 | 201 | 63 | 5.56 | 5.56 | 0.67100 | 322-130-601 |
| 5.60 | 201 | 42 | 5.96 | 5.96 | 0.83204 | 322-140-601 |
| 6.00 | 201 | 42 | 6.44 | 6.36 | 0.88572 | 322-150-601 |
| 6.40 | 201 | 42 | 6.80 | 6.76 | 0.95282 | 322-160-601 |
| 6.80 | 153 | 42 | 7.20 | 7.16 | 0.99979 | 322-170-601 |
| 7.00 | 153 | 42 | 7.40 | 7.36 | 1.03334 | 322-175-601 |
| 7.20 | 153 | 42 | 7.60 | 7.56 | 1.06018 | 322-180-601 |
| 8.00 | 153 | 42 | 8.56 | 8.40 | 1.09373 | 322-200-601 |
| 9.00 | 100 | 21 | 9.40 | 9.40 | 1.22793 | 322-225-601 |
| 10.00 | 100 | 21 | 10.40 | 10.40 | 1.36213 | 322-250-601 |
| 11.00 | 100 | 21 | 11.36 | 11.40 | 1.49633 | 322-275-601 |
| 11.20 | 100 | 21 | 11.60 | 11.60 | 1.52317 | 322-280-601 |
| 12.00 | 92 | 19 | 12.40 | 12.40 | 1.63053 | 322-300-601 |
| 12.60 | 92 | 19 | 13.00 | 13.00 | 1.71105 | 322-315-601 |
| 13.00 | 92 | 19 | 13.40 | 13.40 | 1.76473 | 322-325-601 |
| 14.00 | 48 | 19 | 14.40 | 14.40 | 1.89893 | 322-350-601 |
| 16.00 | 48 | 19 | 16.40 | 16.44 | 2.16733 | 322-400-601 |

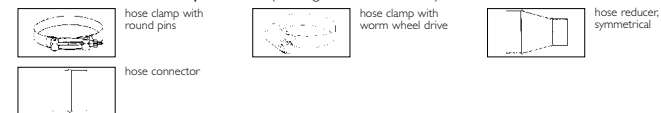
* Referring to the inner side of the elbow of hose.

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. 2.4" - 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):



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FILM HOSE - LIGHTWEIGHT, VERY FLEXIBLE AND COMPRESSIBLE



1.2.1

FLAMEX SL

Material

hose wall: 100 % pure polyester polyurethane with addition of flame protection. 30% more abrasion-resistant than polyether polyurethane
spiral: PU-coated spring steel wire

Applications

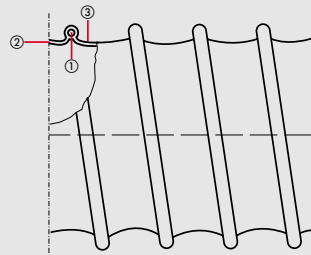
- transport hose for abrasive solids in fire risk areas
- woodworking machines
- exhaust equipment in wood-working industries
- protection hose against mechanical pressure

Properties

- conforms to the requirements of the German Professional Woodworking Association
- flame resistant
- reinforced by spring steel spiral
- extremely flexible
- small bend radius
- high tensile and burst strength
- super lightweight
- highly abrasion-resistant
- kink-proof
- compressible down to 20%
- solvents, oil and fuels-resistant
- gas-tight
- free of plastizisers and halogens
- UV- and ozone-resistant
- 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 .02"



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

 **Masterduct**
Member of the Masterflex-Group

FLAMEX SL

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Outer Dia (in.) | Weight (lbs./ft.) | Product code |
|-----------|---------------------|---------------------|-----------------------|-----------------|-------------------|--------------|
| 2.40 | 305 | 76 | 1.40 | 2.72 | 0.22143 | 321-060-601 |
| 2.52 | 289 | 70 | 1.48 | 2.84 | 0.22814 | 321-063-601 |
| 2.60 | 273 | 64 | 1.52 | 2.92 | 0.24156 | 321-065-601 |
| 2.80 | 245 | 64 | 1.60 | 3.12 | 0.25498 | 321-070-601 |
| 3.00 | 245 | 52 | 1.72 | 3.32 | 0.33550 | 321-075-601 |
| 3.20 | 213 | 52 | 1.80 | 3.52 | 0.35563 | 321-080-601 |
| 3.60 | 185 | 38 | 2.00 | 3.96 | 0.39589 | 321-090-601 |
| 4.00 | 185 | 38 | 2.20 | 4.32 | 0.44286 | 321-100-601 |
| 4.40 | 153 | 38 | 2.40 | 4.76 | 0.48983 | 321-110-601 |
| 4.60 | 153 | 38 | 2.52 | 4.96 | 0.50996 | 321-115-601 |
| 4.80 | 153 | 38 | 2.60 | 5.16 | 0.53009 | 321-120-601 |
| 5.00 | 153 | 38 | 2.72 | 5.36 | 0.55693 | 321-125-601 |
| 5.20 | 121 | 38 | 2.80 | 5.56 | 0.57706 | 321-130-601 |
| 5.60 | 121 | 26 | 3.00 | 5.96 | 0.61732 | 321-140-601 |
| 6.00 | 121 | 26 | 3.20 | 6.36 | 0.66429 | 321-150-601 |
| 6.40 | 121 | 26 | 3.40 | 6.76 | 0.67100 | 321-160-601 |
| 6.80 | 92 | 26 | 3.60 | 7.16 | 0.71797 | 321-170-601 |
| 7.00 | 92 | 26 | 3.72 | 7.36 | 0.73810 | 321-175-601 |
| 7.20 | 92 | 26 | 3.80 | 7.56 | 0.75823 | 321-180-601 |
| 8.00 | 92 | 26 | 4.20 | 8.40 | 0.78507 | 321-200-601 |
| 9.00 | 60 | 12 | 4.72 | 9.40 | 0.80520 | 321-225-601 |
| 10.00 | 60 | 12 | 5.20 | 10.40 | 1.20109 | 321-250-601 |
| 11.00 | 60 | 12 | 5.72 | 11.40 | 1.32187 | 321-275-601 |
| 11.20 | 60 | 12 | 5.80 | 11.60 | 1.34871 | 321-280-601 |
| 12.00 | 56 | 11 | 6.20 | 12.40 | 1.44265 | 321-300-601 |
| 14.00 | 48 | 8 | 7.20 | 14.40 | 1.67750 | 321-350-601 |
| 16.00 | 40 | 5 | 8.20 | 16.40 | 1.91235 | 321-400-601 |

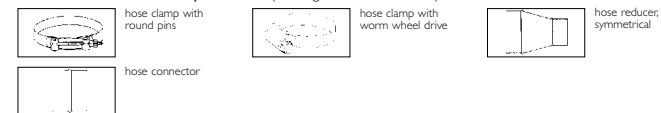
* Referring to the inner side of the elbow of hose.

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. 2.4" - 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):



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FILM HOSE - FLAME AND CRUSH-RESISTANT



1.2.4

MASTER-PUR STEP

Material

hose wall: 100 % pure polyester polyurethane with addition of flame protection. 30% more abrasion-resistant than polyether polyurethane

spiral: Polyurethane

Applications

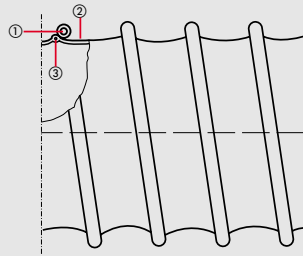
- ideally suitable as suction hoses where conventional hoses can be deformed by bad operating conditions on the floor

Properties

- crush resistant
- excellent resilience properties
- flame resistant
- high resistance to mechanical load
- highly abrasion-resistant
- super lightweight
- highly flexible
- optimum flow characteristics
- electrically conductive by grounding wire

Construction

- ① hollow-profile spiral
- ② hose wall: polyurethane



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

 **Masterduct**
Member of the Masterflex-Group

MASTER-PUR STEP

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Outer Dia (in.) | Weight (lbs./ft.) | Product code |
|-----------|---------------------|---------------------|-----------------------|-----------------|-------------------|--------------|
| 2.4 | 305 | 76 | 2.6 | 3.2 | 0.30195 | 324-060-618 |
| 3.0 | 245 | 52 | 3.0 | 3.8 | 0.40931 | 324-075-618 |
| 3.2 | 213 | 52 | 3.2 | 4.0 | 0.43615 | 324-080-618 |
| 4.0 | 185 | 38 | 4.0 | 4.8 | 0.53680 | 324-100-618 |
| 4.8 | 153 | 38 | 4.8 | 5.6 | 0.63745 | 324-120-618 |
| 5.6 | 121 | 26 | 5.6 | 6.4 | 0.77165 | 324-140-618 |
| 6.0 | 121 | 26 | 6.0 | 6.8 | 0.80520 | 324-150-618 |
| 6.4 | 121 | 26 | 6.4 | 7.2 | 0.87230 | 324-160-618 |

* 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:

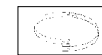
Standard production:

- Dia. 2.4" - 6.4"
- Color hose wall clear with blue spiral
- Standard lengths 25'

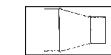
Available on request:

- special lengths
- special diameters up to 12"

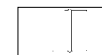
Installation and connection possibilities (see section no. 11 and 12):



CAR-GRIP special hose clamp for CARFLEX-SUPER hoses and MASTER- PUR STEP



hose reducer, symmetrical



hose connector



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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

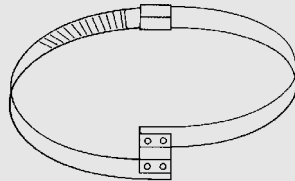
- rust resistant
- easy to install
- extra strength

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

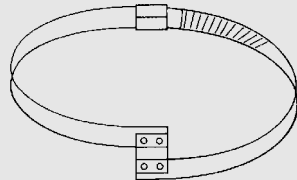
- rust resistant
- easy to install
- extra strength

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

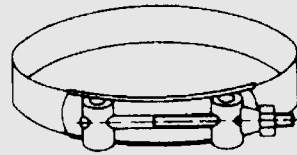
- for attaching medium-weight and heavy spiral hoses onto connecting branches on mobile and stationary units

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

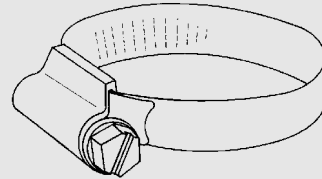
- rust resistant
- extra strength

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

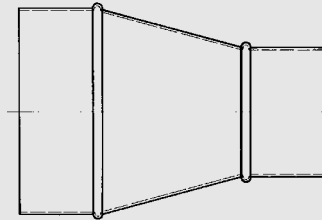
- for extending, connecting and attaching lightweight or medium weight hoses

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 |

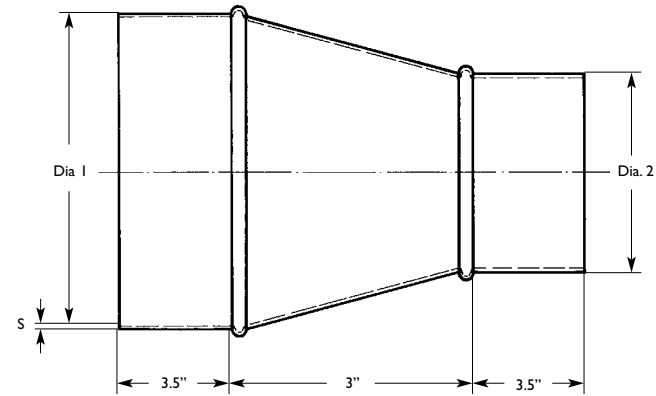
Delivery forms:

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

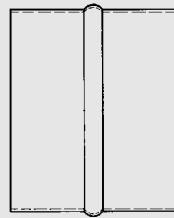
- extending, connecting and attaching lightweight or medium weight hoses

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 |

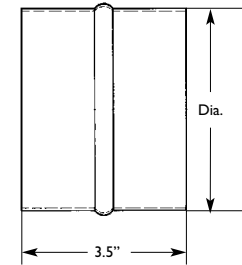
Delivery forms:

Standard production:

- galvanized steel

Available on request:

- special sizes
- stainless steel



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