

PROTISA[®]



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FLEXAIR[™]

CATÁLOGO

FLEXAIR™

INDUSTRIAL DUCTING HOSE







by Kuriyama



Kuriyama of America, Inc.

EDITION 0417

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Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

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Features & Advantages Catalog Icon Guide



Abrasion Resistant – Indicates hoses designed to help resist internal wear caused by the transfer of abrasive materials.



"Cold-Flex" Materials – Indicates hoses designed to remain flexible in sub-zero temperatures.



Easy Slide – Indicates hoses with an external rigid helix designed to slide easily over rough surfaces. Easy-to-handle.



Food Grade – Indicates hoses which comply with applicable FDA requirements for food contact. Several of these hoses also meet USDA and 3-A requirements.



High Temp Materials – Indicates hoses designed for use at temperatures of 250°F (121°C) or above.



Oil Resistant – Indicates hoses which exhibit resistance to animal, vegetable and petroleum based oils.



Static Dissipative – Indicates hoses formulated with static dissipative compounds, or hoses containing a grounding wire, to help prevent the build-up of static electricity.

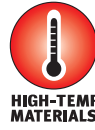


Transparent Construction – Indicates hoses with a transparent or semi-transparent tube. These hoses allow the user visual confirmation of material flow, and the ability to see if material or condensation has collected in the hose tube.



Water – Indicates hoses which can be used for freshwater and saltwater transfer.

Features & Advantages Guide by Hose Series



| | AR | "COLD-FLEX" | EASY SLIDE | FOOD GRADE | HIGH-TEMP | OIL RESISTANT | STATIC DISSIPATIVE | TRANSPARENT CONSTRUCTION | WATER |
|----------|----|-------------|------------|------------|-----------|---------------|--------------------|--------------------------|-------|
| CG | | | X | | | | | X | X |
| EDB/EDW | | | | | | | X | | |
| GT/GTG | | | X | | | | | X | X |
| GTF/GTFE | | | X | X | | | X | X | X |
| HT4000 | X | | X | X | X | | X | | |
| HTNP2 | X | X | | | X | | X | | |
| LK/LKC | X | X | X | | | | | X | X |
| SDH | | X | | | X | | X | | |
| TMOD | | X | | | X | | X | | X |
| UV1/UEVE | X | X | X | | | X | X | X | |
| UV2 | X | X | X | | | X | X | X | |
| URE-BK | X | X | | | | X | X | | X |
| URE-CL | X | X | | X | | X | X | X | X |
| UREH-CL | X | X | | X | | X | X | X | X |
| UVF | X | X | X | X | | X | | X | |
| VID-CL | | X | | X | | | X | X | X |

Application Guide

| APPLICATION | TPU HOSES | | | | | | PVC & TPR HOSES | | | | | | MISC. HOSES | | | |
|---|-----------|--------|---------|----------|-----|-----|-----------------|----------|--------|----|------|--------|-------------|-------|-----|--------|
| | URE-BK | URE-CL | UREH-CL | UV1/UEVE | UV2 | UVF | CG/CG-SL | GTF/GTFE | GT/GTG | LK | TMOD | VID-CL | EDB/EDW | HTNP2 | SDH | HT4000 |
| Cable and hose bundle protection | | | | | | | ✓ | | ✓ | ✓ | | | | | | ✓ |
| Drain lines | | | | | | | ✓ | ✓ | ✓ | | | | | | | |
| Ducting, ventilation & fume removal | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dust control | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Food grade material handling | | ✓ | ✓ | | | ✓ | | ✓ | | | ✓ | | | | | ✓ |
| High temperature air handling | | | | | | | | | | ✓ | | | | ✓ | ✓ | ✓ |
| Insulation blowing | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | | | | | | | |
| Lavatory waste disposal | ✓ | ✓ | | | | | | | | | | | | | | |
| Lawn and leaf collection | ✓ | ✓ | ✓ | ✓ | | | | | ✓ | | | ✓ | | | | |
| Material handling - standard duty | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | ✓ |
| Material handling - light duty | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ |
| Mulch, bark, wood chips & other surfacing materials | | | | | | | | | | ✓ | | | | | | |
| Oil mist venting | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | |
| Pharmaceutical product transfer | | ✓ | ✓ | | | ✓ | | ✓ | | | | | | | | |
| Plastic process driers | | | | | | | | | | | | | | | ✓ | ✓ |
| Plastic processing equipment | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | | | | | | | |
| Street and parking lot sweepers | ✓ | ✓ | ✓ | | | | | | | | | | | | | |
| Woodworking/Furniture dust & chip control | ✓ | ✓ | ✓ | | ✓ | | | | ✓ | | ✓ | ✓ | | | | |

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Urevent™ Clear URE-CL™ Series Food Grade Polyurethane Ducting/Material Handling Hose



NEW

General Applications:

- Concrete resurfacing dust collection
- Ducting, ventilation & fume removal
- Dust control
- Food grade material handling
- Insulation blowing
- Lavatory waste disposal
- Material handling – standard duty
- Oil mist collection
- Pharmaceutical product transfer
- Woodworking/furniture dust & chip control

Construction: Ether polyurethane (TPU) hose with steel wire helix.

Service Temperature: -65°F (-54°C) to 225°F (107°C); intermittent service to 250°F (121°C)*



Features and Advantages:

- **Durable & Lightweight Polyurethane Material** – Designed for wet or dry applications where abrasion is a factor. Provides longer hose life and lower operating costs versus similar rubber or PVC hoses.
- **Steel Wire Helix** – Provides strength and allows for use at higher temperatures without risk of hose deformation. Wire can be grounded for static dissipation. ⚡
- **Food Grade Material** – Hose complies with applicable FDA requirements. Phthalate free.
- **Transparent Construction** – “See-the-flow”. Allows for visual confirmation of material flow.
- **“Cold-Flex” Material** – Hose remains flexible in sub-zero temperatures.
- **Oil Resistant Polyurethane** – Resists most animal and petroleum based oils.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) @ 68° F | Vacuum Rating (in Hg) @ 68°F | Min. Bending Radius (in.) @ 68°F | Compression Ratio | Length/Ctn. (ft.) | Weight (lbs/ft) |
|------------|-------|-------|-------|-------|--------------------------------|------------------------------|----------------------------------|-------------------|-------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | | | | | | |
| URE-CL200 | 2 | 50.8 | 2.23 | 56.6 | 31 | 29 | 2 | 3:1 | 25 | 0.36 |
| URE-CL250 | 2 1/2 | 63.5 | 2.73 | 69.3 | 31 | 29 | 2 | 3:1 | 25 | 0.40 |
| URE-CL300 | 3 | 76.2 | 3.23 | 82.0 | 30 | 29 | 2.5 | 3:1 | 25 | 0.44 |
| URE-CL400 | 4 | 101.6 | 4.28 | 108.7 | 26 | 22 | 3.5 | 3:1 | 25 | 0.62 |
| URE-CL500 | 5 | 127.0 | 5.28 | 134.1 | 22 | 21 | 4.5 | 3:1 | 25 | 0.65 |
| URE-CL600 | 6 | 152.4 | 6.33 | 160.8 | 20 | 19 | 5.5 | 3:1 | 25 | 0.84 |
| URE-CL800 | 8 | 203.2 | 8.33 | 211.6 | 14 | 14 | 7 | 3:1 | 25 | 1.40 |
| URE-CL1000 | 10 | 255.0 | 10.33 | 262.4 | 11 | 6 | 8 | 3:1 | 25 | 1.93 |
| URE-CL1200 | 12 | 304.8 | 12.33 | 313.2 | 10 | 5 | 9 | 3:1 | 25 | 2.26 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent

⚡ **CAUTION:** This product is designed to dissipate static electricity when the metal wire is physically extracted and securely connected to ground, through the fitting or by other means.

BSE/TSE⁽⁰²⁾, FDA⁽⁰³⁾, PHTHALATE FREE⁽⁰⁵⁾, RoHS⁽⁰⁶⁾

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



ABRASION RESISTANT



"COLD-FLEX" MATERIALS



OIL RESISTANT



STATIC DISSIPATIVE



WATER

FLEXAIR™



NEW



Urevent™ Black URE-BK™ Series Polyurethane Ducting/Material Handling Hose

General Applications:

- Concrete resurfacing dust collection
- Ducting, ventilation & fume removal
- Dust control
- Insulation blowing
- Lavatory waste disposal
- Material handling – standard duty
- Oil mist collection
- Woodworking/furniture dust & chip control

Construction: Ether polyurethane (TPU) hose with steel wire helix.

Service Temperature: -65°F (-54°C) to 225°F (107°C); intermittent service to 250°F (121°C)*

Features and Advantages:

- **Durable & Lightweight Polyurethane Material** – Designed for wet or dry applications where abrasion is a factor. Provides longer hose life and lower operating costs versus similar rubber or PVC hoses.
- **Steel Wire Helix** – Provides strength and allows for use at higher temperatures without risk of hose deformation. Wire can be grounded for static dissipation. ⚡

- **"Cold-Flex" Material** – Hose remains flexible in sub-zero temperatures.
- **Oil Resistant Polyurethane** – Resists most animal and petroleum based oils.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) @ 68° F | Vacuum Rating (in Hg) @ 68°F | Min. Bending Radius (in.) @ 68°F | Compression Ratio | Length/Ctn. (ft.) | Weight (lbs/ft) |
|------------|-------|-------|-------|-------|--------------------------------|------------------------------|----------------------------------|-------------------|-------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | | | | | | |
| URE-BK200 | 2 | 50.8 | 2.23 | 56.6 | 31 | 29 | 2 | 3:1 | 25 | 0.36 |
| URE-BK250 | 2 1/2 | 63.5 | 2.73 | 69.3 | 31 | 29 | 2 | 3:1 | 25 | 0.40 |
| URE-BK300 | 3 | 76.2 | 3.23 | 82.0 | 30 | 29 | 2.5 | 3:1 | 25 | 0.44 |
| URE-BK400 | 4 | 101.6 | 4.28 | 108.7 | 26 | 22 | 3.5 | 3:1 | 25 | 0.62 |
| URE-BK500 | 5 | 127.0 | 5.28 | 134.1 | 22 | 21 | 4.5 | 3:1 | 25 | 0.65 |
| URE-BK600 | 6 | 152.4 | 6.33 | 160.8 | 20 | 19 | 5.5 | 3:1 | 25 | 0.84 |
| URE-BK800 | 8 | 203.2 | 8.33 | 211.6 | 14 | 14 | 7 | 3:1 | 25 | 1.40 |
| URE-BK1000 | 10 | 255.0 | 10.33 | 262.4 | 11 | 6 | 8 | 3:1 | 25 | 1.93 |
| URE-BK1200 | 12 | 304.8 | 12.33 | 313.2 | 10 | 5 | 9 | 3:1 | 25 | 2.26 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent

⚡ **CAUTION:** This product is designed to dissipate static electricity when the metal wire is physically extracted and securely connected to ground, through the fitting or by other means.

RoHS(06)

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

KFDHCA0417

Urevent™ HD Heavy Duty Clear UREH-CL™ Series Heavy Duty, Food Grade Polyurethane Ducting/Material Handling Hose



General Applications:

- Concrete resurfacing dust collection
- Ducting, ventilation & fume removal
- Dust control
- Food grade material handling
- Material handling – standard duty
- Pharmaceutical product transfer
- Woodworking/furniture dust & chip control

Construction: Ether polyurethane (TPU) hose with steel wire helix.

Service Temperature: -65°F (-54°C) to 225°F (107°C); intermittent service to 250°F (121°C)*

Features and Advantages:

- **Durable & Lightweight Polyurethane Material** – Designed for wet or dry applications where abrasion is a factor. Provides longer hose life and lower operating costs versus similar rubber or PVC hoses.
- **Steel Wire Helix** – Provides strength and allows for use at higher temperatures without risk of hose deformation. Wire can be grounded for static dissipation. ⚡
- **Food Grade Material** – Hose complies with applicable FDA requirements. Phthalate free.
- **Transparent Construction** – “See-the-flow”. Allows for visual confirmation of material flow.
- **“Cold-Flex” Material** – Hose remains flexible in sub-zero temperatures.
- **Oil Resistant Polyurethane Tube** – Resists most animal and petroleum based oils.



Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) @ 68° F | Vacuum Rating (in Hg) @ 68° F | Min. Bending Radius (in.) @ 68° F | Compression Ratio | Length/Ctn. (ft.) | Weight (lbs/ft) |
|-------------|-------|-------|-------|--------|--------------------------------|-------------------------------|-----------------------------------|-------------------|-------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | | | | | | |
| UREH-CL400 | 4 | 101.6 | 4.32 | 109.73 | 33 | 25 | 4 | 2:1 | 25 | 0.73 |
| UREH-CL500 | 5 | 127.0 | 5.32 | 135.13 | 31 | 22 | 5 | 2:1 | 25 | 0.84 |
| UREH-CL600 | 6 | 152.4 | 6.37 | 161.80 | 29 | 21 | 6 | 2:1 | 25 | 1.20 |
| UREH-CL800 | 8 | 203.2 | 8.37 | 212.60 | 22 | 16 | 7.5 | 2:1 | 25 | 1.67 |
| UREH-CL1000 | 10 | 255.0 | 10.37 | 263.40 | 21 | 9 | 9 | 2:1 | 25 | 2.03 |
| UREH-CL1200 | 12 | 304.8 | 12.23 | 310.64 | 16 | 7 | 10 | 2:1 | 25 | 2.47 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent

⚡ **CAUTION:** This product is designed to dissipate static electricity when the metal wire is physically extracted and securely connected to ground, through the fitting or by other means.

BSE/TSE⁽⁰²⁾, FDA⁽⁰³⁾, PHTHALATE FREE⁽⁰⁵⁾, RoHS⁽⁰⁶⁾

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**ABRASION
RESISTANT**



**"COLD-FLEX"
MATERIALS**



EASY SLIDE



**OIL
RESISTANT**



**STATIC
DISSIPATIVE**



**TRANSPARENT
CONSTRUCTION**



Urevac™ 2

UV2™ Series

Heavy Duty Polyurethane Lined Ducting/Material Handling Hose

General Applications:

- Agricultural dry fertilizer
- Air seeder lines
- Dust control
- Material handling – standard duty
- Wand hose

Construction: PVC cover with ester polyurethane (TPU) liner and rigid PVC helix.

Service Temperature: -40°F (-40°C) to 150°F (+65°C)*

Features and Advantages:

- **Abrasion Resistant Polyurethane Liner** – Designed for dry applications where severe abrasion is a factor. Provides for longer hose life and lower operating costs versus similar rubber or PVC hoses.
- **"Cold-Flex" Materials** – Hose remains flexible in sub-zero temperatures.
- **Static Dissipative Cover** – Specially formulated to help prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **Transparent Construction** – "See-the-flow." Allows for visual confirmation of material flow.
- **Easy Slide Helix** – Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Liner** – Resists most animal and petroleum based oils.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) | | Vacuum Rating (in Hg) | | Min. Bending Radius (in.) @ 68°F | Standard Length (ft.) | Weight (lbs/ft) |
|---------|-------|-------|-------|-------|------------------------|-------|-----------------------|-------|----------------------------------|-----------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | 68°F | 104°F | 68°F | 104°F | | | |
| UV2-150 | 1 1/2 | 38.1 | 1.87 | 47.5 | 25 | 10 | 22 | 16 | 1.5 | 60 | 0.29 |
| UV2-200 | 2 | 50.8 | 2.47 | 62.7 | 25 | 10 | 21 | 14 | 2.5 | 60 | 0.40 |
| UV2-250 | 2 1/2 | 63.5 | 2.96 | 75.2 | 20 | 8 | 19 | 12 | 3 | 60 | 0.53 |
| UV2-300 | 3 | 76.2 | 3.54 | 89.8 | 20 | 8 | 18 | 11 | 4 | 60 | 0.67 |
| UV2-400 | 4 | 101.6 | 4.57 | 116.1 | 15 | 7 | 13 | 9 | 6 | 60 | 1.02 |
| UV2-500 | 5 | 127.0 | 5.58 | 141.7 | 15 | 7 | 10 | 7 | 8 | 60 | 1.22 |
| UV2-600 | 6 | 152.4 | 6.62 | 168.1 | 10 | 5 | 7 | 5 | 10 | 60 | 1.68 |
| UV2-800 | 8 | 203.2 | 8.67 | 220.2 | 10 | 5 | 5 | 3 | 14 | 20 | 2.24 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent.

RoHS⁽⁰⁶⁾

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Urevac™ Food UVF™ Series

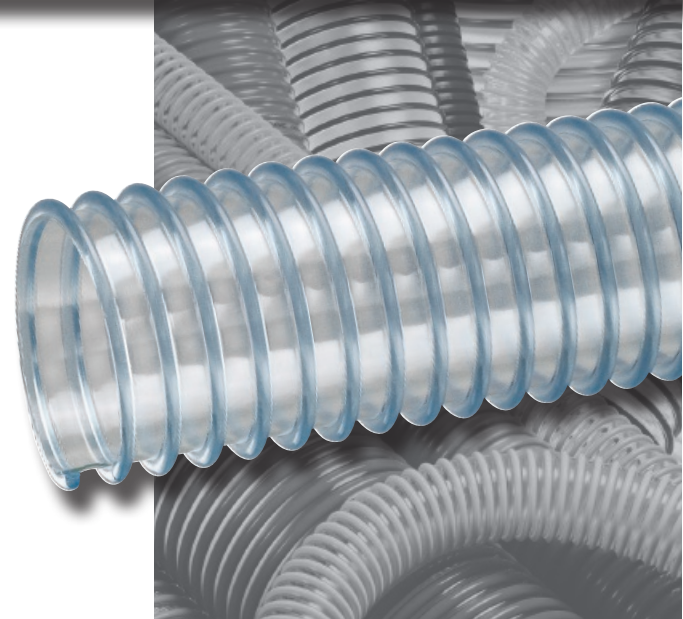
Food Grade Polyurethane Ducting/Material Handling Hose

General Applications:

- Ducting, ventilation and fume removal
- Dust collection
- Food grade blower and ducting systems
- Food grade material handling – standard duty
- Pharmaceutical product transfer

Construction: Ester polyurethane (TPU) tube with rigid PVC helix.

Service Temperature: -40°F (-40°C) to 150°F (+65°C)*



Features and Advantages:

- **Durable Lightweight Polyurethane Tube** – Designed for dry applications where abrasion is a factor. Provides longer hose life and lower operating costs versus similar rubber or PVC hoses.
- **Food Grade Materials** – Hose complies with applicable FDA⁽⁰⁴⁾ requirements. Hose approved by USDA⁽¹²⁾ for use in meat and poultry plants. Phthalate free.
- **Transparent Construction** – “See-the-flow”. Allows for visual confirmation of material flow.
- **“Cold-Flex” Materials** – Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix** – Exposed rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **Oil Resistant Polyurethane Hose** – Resists most animal and petroleum based oils.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) | | Vacuum Rating (in. Hg) | | Min. Bending Radius (in.) @ 68°F | Standard Length (ft.) | Weight (lbs/ft) |
|--------|-------|-------|-------|-------|------------------------|-------|------------------------|-------|----------------------------------|-----------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | 68°F | 104°F | 68°F | 104°F | | | |
| UVF150 | 1 1/2 | 38.1 | 1.82 | 46.2 | 20 | 7 | 22 | 14 | 1 | 50 | 0.23 |
| UVF200 | 2 | 50.8 | 2.39 | 60.7 | 15 | 6 | 21 | 12 | 1.5 | 50 | 0.32 |
| UVF250 | 2 1/2 | 63.5 | 2.89 | 73.4 | 10 | 5 | 19 | 10 | 1.5 | 50 | 0.39 |
| UVF300 | 3 | 76.2 | 3.46 | 87.9 | 10 | 5 | 18 | 10 | 2.5 | 50 | 0.55 |
| UVF400 | 4 | 101.6 | 4.50 | 114.3 | 8 | 4 | 13 | 8 | 3 | 50 | 0.77 |
| UVF500 | 5 | 127.0 | 5.50 | 139.7 | 7 | 3 | 10 | 7 | 4 | 50 | 0.89 |
| UVF600 | 6 | 152.4 | 6.54 | 166.1 | 6 | 3 | 7 | 5 | 5 | 50 | 1.15 |
| UVF800 | 8 | 203.2 | 8.59 | 218.1 | 4 | 2 | 5 | 3 | 7 | 50 | 1.75 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent.

BSE/TSE⁽⁰²⁾, FDA⁽⁰³⁾, PHTHALATE FREE⁽⁰⁵⁾, RoHS⁽⁰⁶⁾, USDA⁽⁰⁸⁾

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ABRASION RESISTANT



"COLD-FLEX" MATERIALS



EASY SLIDE



OIL RESISTANT



STATIC DISSIPATIVE



TRANSPARENT CONSTRUCTION



UV1

UVE



Urevac™ 1

UV1™ Series

Polyurethane Ducting/
Material Handling Hose

UVE™ Series

Polyurethane Ducting/
Material Handling Hose With
Grounding Wire

General Applications:

- Concrete resurfacing dust collection
- Ducting, ventilation and fume removal
- Dust collection
- Insulation blowing
- Material chutes
- Material handling – standard duty

Construction: Ester polyurethane (TPU) tube with rigid PVC helix.

Service Temperature: -40°F (-40°C) to 150°F (+65°C)*

Features and Advantages:

- **Durable Lightweight Polyurethane Tube** – Designed for dry applications where abrasion is a factor. Provides longer hose life and lower operating costs versus rubber or PVC hoses.
- **Transparent Construction** – “See-the-flow.” Allows for visual confirmation of material flow.
- **Easy Slide Helix** – Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.
- **“Cold-Flex” Materials** – Hose remains flexible in sub-zero temperatures.
- **Oil Resistant Polyurethane Tube** – Resists most animal and petroleum based oils.
- **Grounding Wire (UVE only)** – Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It’s embedded within the rigid helix to prevent contamination of transferred materials. ⚡

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) | | Vacuum Rating (in. Hg) | | Min. Bending Radius (in.) @ 68°F | Standard Length (ft.) | Weight (lbs/ft) |
|-------------|-------|-------|-------|-------|------------------------|-------|------------------------|-------|----------------------------------|-----------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | 68°F | 104°F | 68°F | 104°F | | | |
| UV1-150 | 1 1/2 | 38.1 | 1.82 | 46.2 | 20 | 7 | 22 | 14 | 0.75 | 50 | 0.23 |
| UV1/UVE-200 | 2 | 50.8 | 2.39 | 60.7 | 15 | 6 | 21 | 12 | 1.5 | 100/50 | 0.32 |
| UV1-250 | 2 1/2 | 63.5 | 2.89 | 73.4 | 10 | 5 | 19 | 10 | 1.5 | 50 | 0.39 |
| UV1/UVE-300 | 3 | 76.2 | 3.46 | 87.9 | 10 | 5 | 18 | 10 | 2.5 | 100/50 | 0.58 |
| UV1/UVE-400 | 4 | 101.6 | 4.50 | 114.3 | 8 | 4 | 13 | 8 | 3 | 100/50 | 0.77 |
| UV1-500 | 5 | 127.0 | 5.50 | 139.7 | 7 | 3 | 10 | 7 | 4 | 50 | 0.89 |
| UV1/UVE-600 | 6 | 152.4 | 6.54 | 166.1 | 6 | 3 | 7 | 5 | 5 | 100/50 | 1.15 |
| UV1-800 | 8 | 203.2 | 8.59 | 218.2 | 4 | 2 | 5 | 3 | 7 | 50 | 1.75 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent.

⚡ **CAUTION:** This product is designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means.

RoHS(06)

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

KFDHCA0417

Vinylduct™ Clear VID-CL™ Series

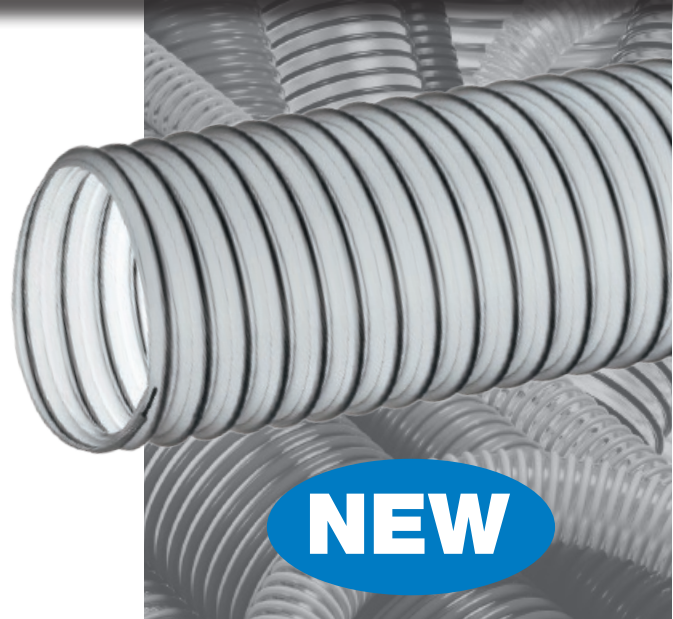
Food Grade PVC Ducting/Material Handling Hose

General Applications:

- Ducting, ventilation & fume removal
- Dust control
- Food grade material handling
- Lawn and leaf collection
- Material handling – light duty

Construction: PVC hose with steel wire helix.

Service Temperature: -20°F (-29°C) to 180°F (82°C)*



Features and Advantages:

- **Steel Wire Helix** – Highly durable steel wire provides strength and allows for use at higher temperatures without risk of hose deformation. Wire can be grounded for static dissipation. ⚡
- **Food Grade Material** – Hose complies with applicable FDA requirements. Phthalate free.
- **Flame Retardant** – Manufactured to meet UL94V-O rating of the Standard for Safety of Flammability of Plastic Material in Devices and Appliances Testing.
- **Transparent Construction** – “See-the-flow”. Allows for visual confirmation of material flow.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) @ 68°F | Vacuum Rating (in Hg) @ 68°F | Min. Bending Radius (in.) @ 68°F | Compression Ratio | Length/Ctn. (ft.) | Weight (lbs/ft) |
|------------|-------|-------|-------|-------|-------------------------------|------------------------------|----------------------------------|-------------------|-------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | | | | | | |
| VID-CL200 | 2 | 50.8 | 2.23 | 56.6 | 28 | 29 | 2 | 3:1 | 25 | 0.36 |
| VID-CL250 | 2 1/2 | 63.5 | 2.73 | 69.3 | 24 | 29 | 2 | 3:1 | 25 | 0.40 |
| VID-CL300 | 3 | 76.2 | 3.23 | 82.0 | 20 | 26 | 2.5 | 3:1 | 25 | 0.44 |
| VID-CL400 | 4 | 101.6 | 4.28 | 108.7 | 18 | 22 | 3.5 | 3:1 | 25 | 0.62 |
| VID-CL500 | 5 | 127.0 | 5.28 | 134.1 | 16 | 21 | 4.5 | 3:1 | 25 | 0.65 |
| VID-CL600 | 6 | 152.4 | 6.33 | 160.8 | 14 | 19 | 5.5 | 3:1 | 25 | 0.84 |
| VID-CL800 | 8 | 203.2 | 8.33 | 211.6 | 10 | 14 | 6.5 | 3:1 | 25 | 1.40 |
| VID-CL1000 | 10 | 255.0 | 10.33 | 262.4 | 9 | 6 | 7 | 4:1 | 25 | 1.93 |
| VID-CL1200 | 12 | 304.8 | 12.33 | 313.2 | 8 | 5 | 8.5 | 4:1 | 25 | 2.26 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent.

⚡ **CAUTION:** This product is designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means.

BSE/TSE⁽⁰²⁾, FDA⁽⁰³⁾, PHTHALATE FREE⁽⁰⁵⁾, RoHS⁽⁰⁶⁾, UL94V-O⁽⁰⁷⁾

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



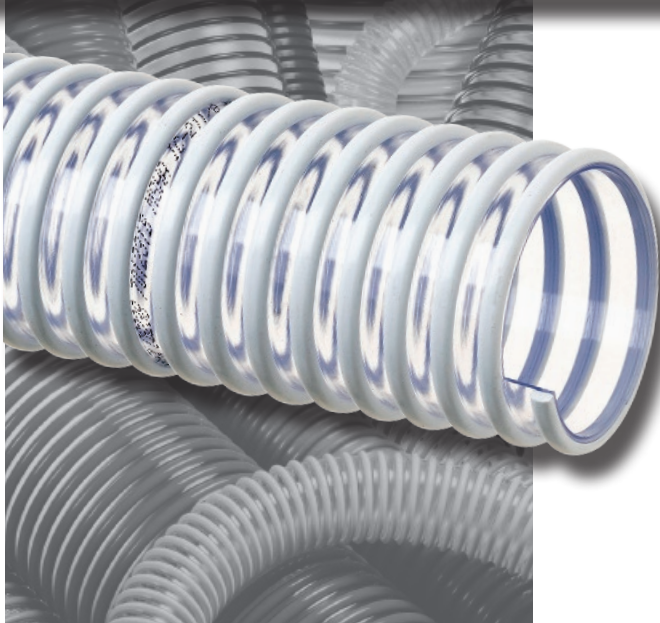
EASY SLIDE



TRANSPARENT CONSTRUCTION



WATER



CG™ Series

Light Weight PVC Ducting Hose

General Applications:

- Dust collection
- Ducting, ventilation and fume removal
- Washing machine drain hose

Construction: PVC tube with rigid PVC helix.

Service Temperature: -4°F (-20°C) to 150°F (+65°C)*



Features and Advantages:

- **Transparent Construction** – “See-the-flow.” Allows for visual confirmation of material flow.
- **Easy Slide Helix** – Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) | | Vacuum Rating (in. Hg) | | Min. Bending Radius (in.) @ 68° F | Standard Length (ft.) | Weight (lbs/ft) |
|--------|-------|-------|-------|-------|------------------------|-------|------------------------|-------|-----------------------------------|-----------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | 68°F | 104°F | 68°F | 104°F | | | |
| CG200 | 2 | 50.8 | 2.30 | 58.4 | 12 | 6 | 10 | 5 | 2 | 100 | 0.28 |
| CG238 | 2 3/8 | 60.3 | 2.76 | 70.1 | 12 | 6 | 10 | 5 | 2 | 100 | 0.38 |
| CG250 | 2 1/2 | 63.5 | 2.81 | 71.3 | 10 | 5 | 8 | 4 | 2 | 100 | 0.39 |
| CG300 | 3 | 76.2 | 3.35 | 85.0 | 8 | 4 | 7 | 3 | 3 | 100 | 0.45 |
| CG350 | 3 1/2 | 88.9 | 3.83 | 97.4 | 8 | 4 | 7 | 3 | 3 | 100 | 0.51 |
| CG400 | 4 | 102.4 | 4.39 | 111.4 | 6 | 3 | 6 | 3 | 3 | 100 | 0.64 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent.

MSHA⁽⁰⁴⁾, **RoHS**⁽⁰⁶⁾

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

KFDHCA0417

GT™ Series GTG™ Series

PVC Ducting/Material Handling Hose

General Applications:

- Cable protection
- Drain lines
- Ducting, ventilation and fume removal
- Dust collection
- Material handling – light duty

Construction: PVC tube with rigid PVC helix.

Service Temperature: -4°F (-20°C) to 150°F (+65°C)*



**GTG
Anti-Microbial**

Features and Advantages:

- **Transparent Construction (GT series only)** – “See-the-flow.” Allows for visual confirmation of material flow.
- **Easy Slide Helix** – Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

- **Anti-Microbial Tube (GTG series only)** – Inhibits growth of bacteria, fungi, mold and yeast.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) | | Vacuum Rating (in. Hg) | | Min. Bending Radius (in.) @ 68°F | Standard Length (ft.) | Weight (lbs/ft) |
|-----------|-------|-------|-------|-------|------------------------|-------|------------------------|-------|----------------------------------|-----------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | 68°F | 104°F | 68°F | 104°F | | | |
| GT/GTG150 | 1 1/2 | 38.1 | 1.82 | 46.2 | 20 | 7 | 22 | 14 | 1 | 100/50 | 0.23 |
| GT/GTG200 | 2 | 50.8 | 2.39 | 60.8 | 15 | 6 | 21 | 12 | 2 | 100/50 | 0.30 |
| GT238 | 2 3/8 | 60.6 | 2.76 | 70.1 | 12 | 6 | 20 | 11 | 2 | 100 | 0.38 |
| GT/GTG250 | 2 1/2 | 63.5 | 2.89 | 73.4 | 10 | 5 | 19 | 10 | 2 | 100/50 | 0.39 |
| GT/GTG300 | 3 | 76.2 | 3.46 | 87.9 | 10 | 5 | 18 | 10 | 3 | 100/50 | 0.50 |
| GT350 | 3 1/2 | 88.9 | 4.02 | 102.0 | 9 | 4 | 15 | 8 | 3 | 100/50 | 0.68 |
| GT/GTG400 | 4 | 101.6 | 4.50 | 114.3 | 8 | 4 | 13 | 7 | 3 | 100/50 | 0.77 |
| GT500 | 5 | 127.0 | 5.50 | 139.7 | 7 | 3 | 10 | 6 | 5 | 100/50 | 0.91 |
| GT600 | 6 | 152.4 | 6.54 | 166.1 | 6 | 3 | 7 | 5 | 6 | 100/50 | 1.08 |
| GT800 | 8 | 203.2 | 8.59 | 218.2 | 4 | 2 | 5 | 3 | 8 | 50 | 1.74 |
| GT1000 | 10 | 254.0 | 11.68 | 296.6 | 2 | — | 2 | — | 10 | 50 | 2.70 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent.



EASY SLIDE



FOOD GRADE



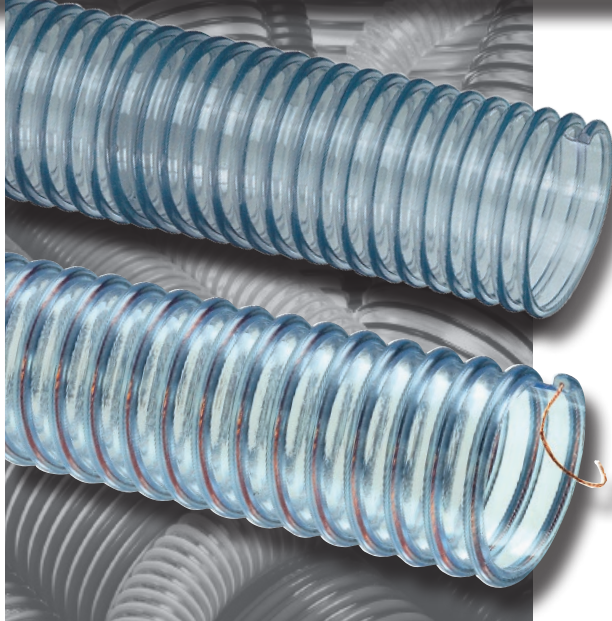
STATIC DISSIPATIVE



TRANSPARENT CONSTRUCTION



WATER



GTF

GTFE

GTF™ Series Food Grade PVC Ducting/Material Handling Hose

GTFE™ Series Food Grade PVC Ducting/Material Handling Hose with Grounding Wire



General Applications:

- Ducting, ventilation and fume removal
- Food grade blower and ducting systems
- Material handling – light duty
- Pharmaceutical product transfer

Construction: PVC tube with rigid PVC helix and grounding wire (GTFE Series).

Service Temperature: -4°F (-20°C) to 150°F (+65°C)*

Features and Advantages:

- **Food Grade Materials** – Hose complies with applicable FDA⁽⁰³⁾ and 3-A⁽⁰¹⁾ requirements. Hose approved by USDA⁽¹¹⁾ (GTF only) for use in meat and poultry plants. Phthalate free.
- **Grounding Wire (GTFE only)** – Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly. It's embedded within the rigid helix to prevent contamination of transferred materials. ⚡
- **Transparent Construction** – “See-the-flow.” Allows for visual confirmation of material flow.
- **Easy Slide Helix** – Exposed rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) | | Vacuum Rating (in. Hg) | | Min. Bending Radius (in.) @ 68°F | Standard Length (ft.) | Weight (lbs/ft) |
|-------------|-------|-------|-------|-------|------------------------|-------|------------------------|-------|----------------------------------|-----------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | 68°F | 104°F | 68°F | 104°F | | | |
| GTF/GTFE150 | 1 1/2 | 38.1 | 1.82 | 46.2 | 20 | 7 | 22 | 14 | 1 | 100 | 0.23 |
| GTF/GTFE200 | 2 | 50.8 | 2.39 | 60.8 | 15 | 6 | 21 | 12 | 2 | 100 | 0.30 |
| GTF/GTFE250 | 2 1/2 | 63.5 | 2.89 | 73.4 | 10 | 5 | 19 | 10 | 2 | 100 | 0.39 |
| GTF/GTFE300 | 3 | 76.2 | 3.46 | 87.9 | 10 | 5 | 18 | 10 | 3 | 100/50 | 0.50 |
| GTF/GTFE400 | 4 | 101.6 | 4.50 | 114.3 | 8 | 4 | 13 | 7 | 3 | 100/50 | 0.77 |
| GTF/GTFE600 | 6 | 152.4 | 6.54 | 166.1 | 6 | 3 | 7 | 5 | 6 | 50 | 1.08 |
| GTF/GTFE800 | 8 | 203.2 | 8.59 | 218.2 | 4 | 2 | 5 | 3 | 8 | 50 | 1.74 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed. Not for liquid handling use.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent.

⚡ **CAUTION:** This product is designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means.

3A⁽⁰¹⁾, BSE/TSE⁽⁰²⁾, FDA⁽⁰⁴⁾, PHTHALATE FREE⁽⁰⁵⁾, RoHS⁽⁰⁶⁾, USDA⁽⁰⁸⁾

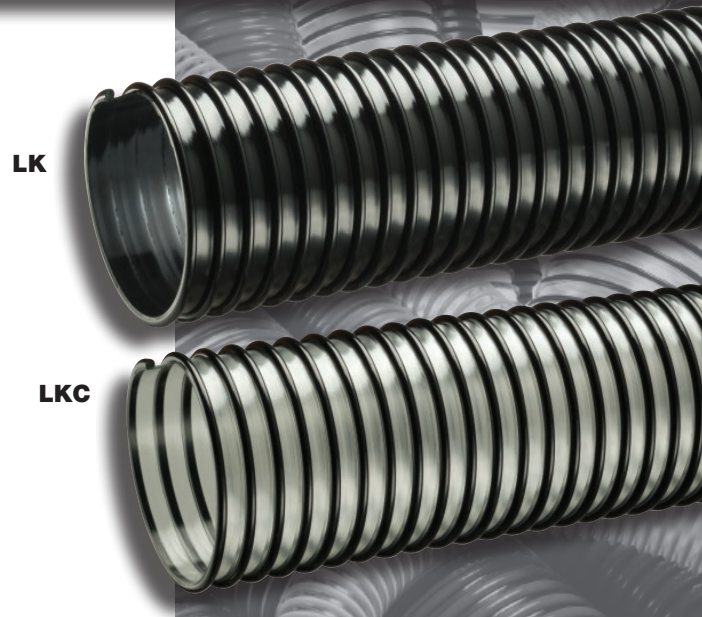
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Lawn King™

LK™ Series

LKC™ Series

PVC Ducting/Material Handling Hose


General Applications:

- Dust collection
- Lawn and leaf collection
- Material handling – light duty

Construction: PVC tube with rigid PVC helix.

Service Temperature: -20°F (-29°C) to 150°F (+65°C)*

Features and Advantages:

- **"Cold-Flex" Materials** – Hose remains flexible in sub-zero temperatures.
- **Transparent Construction (LKC series only)** – “See-the-flow.” Allows for visual confirmation of material flow.
- **Easy Slide Helix** – Rigid helix design protects hose tube from cover wear, and allows hose to slide easily over rough surfaces. Easy-to-handle.

Nominal Specifications

| Series | ID | | OD | | Working Pressure (PSI) | | Vacuum Rating (in. Hg) | | Min. Bending Radius (in.) @ 68°F | Standard Length (ft.) | Weight (lbs/ft) |
|-----------|-------|-------|-------|-------|------------------------|-------|------------------------|-------|----------------------------------|-----------------------|-----------------|
| | (in.) | (mm) | (in.) | (mm) | 68°F | 104°F | 68°F | 104°F | | | |
| LK/LKC400 | 4 | 101.6 | 4.57 | 114.8 | 8 | 4 | 13 | 7 | 3 | 100/50 | 0.85 |
| LKC500 | 5 | 128.0 | 5.55 | 141.0 | 7 | 3 | 10 | 6 | 5 | 100 | 0.93 |
| LK/LKC600 | 6 | 152.4 | 6.63 | 168.3 | 6 | 3 | 7 | 5 | 6 | 100/50 | 1.34 |
| LKC700 | 7 | 177.8 | 7.56 | 192.0 | 4 | 2 | 6 | 4 | 7 | 50 | 1.53 |
| LK/LKC800 | 8 | 203.2 | 8.63 | 219.3 | 4 | 2 | 5 | 3 | 8 | 50/25 | 2.00 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

***Actual service temperature range is application dependent.**



"COLD-FLEX"
MATERIALS



HIGH-TEMP
MATERIALS



STATIC
DISSIPATIVE



WATER

FLEXAIR™



Thermo-Duct™ TMOD Series

Thermoplastic Rubber Ducting/ Material Handling Hose

General Applications:

- Chemical vapor exhausting†
- Ducting, ventilation & fume removal
- Dust control
- High temperature air handling

Construction: Thermoplastic rubber (TPR) hose with steel wire helix.

Service Temperature: -60°F (-51°C) to 275°F (135°C);
intermittent service to 300°F (149°C)*

Features and Advantages:

- **Thermoplastic Rubber (TPR) Material** – Combines the chemical resistant properties of PVC with the flexibility of rubber to handle a wide variety of ducting or light material handling applications, especially ones when high cycle strength is required.
- **Chemical Resistant** – Excellent resistance to a wide variety of industrial chemicals.†
- **Steel Wire Helix** – Highly durable steel wire provides strength and allows for use at higher temperatures without risk of hose deformation. Wire can be grounded for static dissipation. ⚡
- **"Cold-Flex" Material** – Hose remains flexible in sub-zero temperatures.

Nominal Specifications

| Series | ID (in.) | ID (mm) | Min. Bend Radius (in.) @ 68° F | Max. W.P. (PSI) @ 68° F | Vacuum Rating (in Hg) @ 68° F | Length/Ctn. (ft.) | Weight (lbs./ft.) |
|----------|----------|---------|--------------------------------|-------------------------|-------------------------------|-------------------|-------------------|
| TMOD200 | 2 | 50.8 | 1 | 17 | 24 | 25 | 0.22 |
| TMOD250 | 2 1/2 | 63.5 | 1.3 | 15 | 24 | 25 | 0.40 |
| TMOD300 | 3 | 76.2 | 1.5 | 14 | 24 | 25 | 0.55 |
| TMOD400 | 4 | 101.6 | 2 | 11 | 24 | 25 | 0.75 |
| TMOD500 | 5 | 127.0 | 2.5 | 10 | 15 | 25 | 0.85 |
| TMOD600 | 6 | 152.4 | 3 | 9 | 9 | 25 | 0.94 |
| TMOD800 | 8 | 203.2 | 4 | 8 | 8 | 25 | 1.62 |
| TMOD1000 | 10 | 254.0 | 5 | 7 | 6 | 25 | 1.86 |
| TMOD1200 | 12 | 304.8 | 6 | 6 | 4 | 25 | 2.05 |
| TMOD1400 | 14 | 355.6 | 7 | 5 | 3 | 25 | 2.35 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent.

⚡ **CAUTION:** This product is designed to dissipate static electricity when the metal wire is physically extracted and securely connected to ground, through the fitting or by other means.

† **CAUTION:** Before using any hose, the user is responsible for determining it's suitability for the intended application. Therefore, the user assumes all risk and responsibility for determining the suitability of any hose for handling any chemical or chemicals.

RoHS(06)

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

KFDHCA0417



ABRASION RESISTANT



"COLD-FLEX" MATERIALS



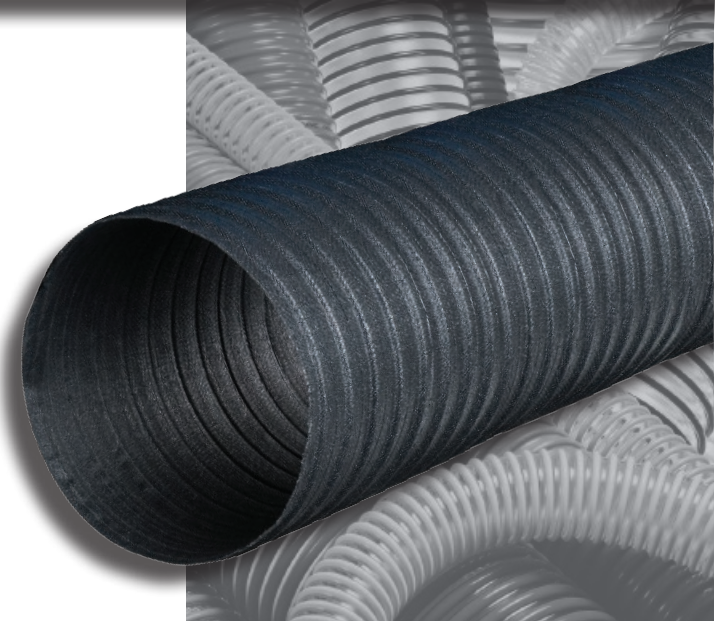
HIGH-TEMP MATERIALS



STATIC DISSIPATIVE

Neo-Duct® HTNP2 Series

Neoprene Coated, Two-Ply Polyester Ducting Hose



General Applications:

- Ducting, ventilation & fume removal
- Dust control
- Material handling – light duty
- High temperature air handling

Construction: Neoprene coated, two-ply polyester hose with steel wire helix.

Service Temperature: -65°F (-54°C) to 250°F (127°C)*



Features and Advantages:

- **Neoprene Coated Polyester Material** – Heat and flame resistant tube well suited for air handling and fume control. More durable than double-ply cotton hoses, exhibiting good crush resistance and tensile strength.
- **Steel Wire Helix** – Highly durable steel wire provides strength and allows for use at higher temperatures without risk of hose deformation. Wire can be grounded for static dissipation. ⚡
- **Flame Retardant** – Manufactured to meet UL94V-O rating of the Standard for Safety of Flammability of Plastic Material in Devices and Appliances Testing.
- **"Cold-Flex" Material** – Hose remains flexible in sub-zero temperatures.

Nominal Specifications

| Series | ID (in.) | ID (mm) | Min. Bend Radius (in.) @ 68° F | Max. W.P. (PSI) @ 68° F | Length/Ctn. (ft.) | Weight (lbs./ft.) |
|------------|----------|---------|--------------------------------|-------------------------|-------------------|-------------------|
| HTNP2-150 | 1 1/2 | 38.1 | 2.6 | 32 | 25 | 0.16 |
| HTNP2-200 | 2 | 50.8 | 3.5 | 30 | 25 | 0.22 |
| HTNP2-250 | 2 1/2 | 63.5 | 4 | 28 | 25 | 0.28 |
| HTNP2-300 | 3 | 76.2 | 5 | 25 | 25 | 0.33 |
| HTNP2-350 | 3 1/2 | 88.9 | 5.7 | 24 | 25 | 0.42 |
| HTNP2-400 | 4 | 101.6 | 6.5 | 23 | 25 | 0.48 |
| HTNP2-500 | 5 | 127.0 | 7.5 | 22 | 25 | 0.61 |
| HTNP2-600 | 6 | 152.4 | 9 | 21 | 25 | 0.70 |
| HTNP2-700 | 7 | 177.8 | 9.5 | 20 | 25 | 0.92 |
| HTNP2-800 | 8 | 203.2 | 10 | 19 | 25 | 1.04 |
| HTNP2-1000 | 10 | 254.0 | 11 | 18 | 25 | 1.36 |
| HTNP2-1200 | 12 | 304.8 | 13.5 | 17 | 25 | 1.85 |
| HTNP2-1400 | 14 | 355.6 | 15.5 | 16 | 25 | 2.10 |
| HTNP2-1600 | 16 | 406.4 | 18.5 | 15 | 25 | 2.40 |
| HTNP2-1800 | 18 | 457.2 | 22 | 6 | 25 | 2.70 |
| HTNP2-2000 | 20 | 508.0 | 24 | 4 | 25 | 3.00 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent

⚡ **CAUTION:** This product is designed to dissipate static electricity when the metal wire is physically extracted and securely connected to ground, through the fitting or by other means.

RoHS⁽⁰⁶⁾, UL94V-O⁽⁰⁷⁾

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



"COLD-FLEX"
MATERIALS

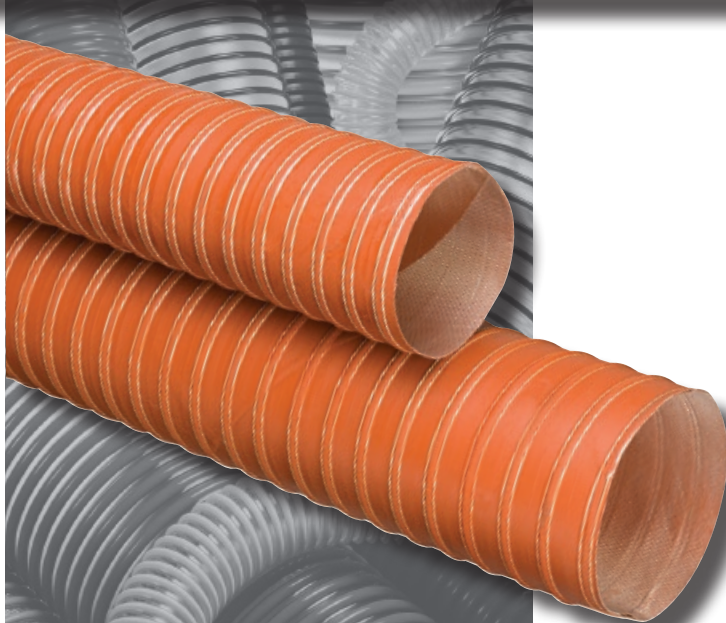


HIGH-TEMP
MATERIALS



STATIC
DISSIPATIVE

FLEXAIR™



SIL-Duct® SDH Series

Silicone Coated, Two-Ply, Woven Fiberglass Ducting Hose With Chemically Treated Steel Wire Helix

General Applications:

- Ducting, ventilation & fume removal
- Dust control
- High temperature air handling
- Plastic processing dryers

Construction: Silicone coated, two-ply, woven fiberglass hose with steel wire helix and double continuous filament, silicone treated fiberglass cord.

Service Temperature: -80°F (-62°C) to 500°F (260°C); intermittent service to 600°F (316°C)*

Features and Advantages:

- **Silicone Coated, Woven Fiberglass Material** – Vulcanized for high durability and long service life. Well suited for air handling and fume control at both high and low temperatures extremes.
- **Smooth Air Flow with Minimum Friction Loss** – Internal ply and narrow pitch helix allow for a tight bend radius while still maintaining smooth air flow. Other similar hoses create restricted inside diameter in bends or axial compression.
- **Easy Installation** – Light weight and highly kink resistant construction allows for easy installation in tight spaces requiring multiple bends.
- **Steel Wire Helix** – Highly durable steel wire provides strength and allows for use at higher temperatures without risk of hose deformation. Wire can be grounded for static dissipation. ⚡

Nominal Specifications

| Series | ID (in.) | ID (mm) | Min. Bend Radius (in.) @ 68° F | Wall Thickness (in.) | Max W.P. (PSI) @ 68° F | Vacuum Rating (in Hg) @ 68° F | Max Leakage CFM | Cuff Length (in.) | Length/Ctn. (ft.) | Weight (lbs./ft.) |
|--------------------|----------|---------|--------------------------------|----------------------|------------------------|-------------------------------|-----------------|-------------------|-------------------|-------------------|
| SDH-100 | 1 | 25.4 | 1 | 0.07 | 60 | Full | 0.015 | 1 1/2 | 12 | 0.13 |
| SDH-125 | 1 1/4 | 31.7 | 1.3 | 0.07 | 60 | Full | 0.015 | 1 1/2 | 12 | 0.16 |
| SDH-150 | 1 1/2 | 38.1 | 1.5 | 0.07 | 55 | 26 | 0.015 | 1 1/2 | 12 | 0.19 |
| SDH-175 | 1 3/4 | 44.5 | 1.8 | 0.07 | 55 | 26 | 0.020 | 1 1/2 | 12 | 0.22 |
| SDH-200 | 2 | 50.8 | 2 | 0.07 | 50 | 20 | 0.020 | 1 1/2 | 12 | 0.25 |
| SDH-250 | 2 1/2 | 63.5 | 2.5 | 0.07 | 45 | 16 | 0.025 | 1 1/2 | 12 | 0.31 |
| SDH-300 | 3 | 76.2 | 3 | 0.07 | 45 | 14 | 0.030 | 1 1/2 | 12 | 0.39 |
| NEW SDH-350 | 3 1/2 | 88.9 | 3.5 | 0.07 | 40 | 12 | 0.035 | 1 1/2 | 12 | 0.45 |
| SDH-400 | 4 | 101.6 | 4 | 0.08 | 40 | 10 | 0.040 | 1 1/2 | 12 | 0.53 |
| NEW SDH-450 | 4 1/2 | 114.3 | 4.5 | 0.08 | 35 | 8 | 0.050 | 1 1/2 | 12 | 0.60 |
| SDH-500 | 5 | 107.0 | 5 | 0.08 | 35 | 8 | 0.060 | 2 | 12 | 0.67 |
| SDH-600 | 6 | 152.4 | 6 | 0.09 | 30 | 6 | 0.100 | 2 | 12 | 0.81 |
| SDH-800 | 8 | 203.2 | 8 | 0.11 | 15 | 6 | 0.150 | 2 | 12 | 1.11 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

NOTE: For details of the following compliances, refer to footnotes listed on page 26.

*Actual service temperature range is application dependent

⚡ **CAUTION:** This product is designed to dissipate static electricity when the metal wire is physically extracted and securely connected to ground, through the fitting or by other means.

RoHS⁽⁰⁶⁾

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

KFDHCA0417

Extendo-Duct® EDB™ Series EDW™ Series Extendible/Contractible, Self-Supporting Polypropylene Ducting Hose

General Applications:

- Air conditioning, spot cooling and heating systems
- Clean room and chemical fume exhaust
- Ducting, ventilation & fume removal
- Dust control
- OEM equipment applications
- Not for liquid handling use

Construction: Extendable/contractible polypropylene tube with steel wire helix.

Service Temperature: -4°F (-20°C) to 175°F (80°C)*

Features and Advantages:

- **Polypropylene Tube** – Inert polypropylene material produces no off-gassing and is resistant to a wide variety of chemical fumes, making it ideal for a wide variety of clean room and fume exhaust applications.
- **Extendible and Contractible** – Hose extends easily and can be contracted to approximately one-third of full extended length for storage, shipping or where the full length is not required.



 **MADE IN THE USA**

- **Self-supporting** – Unique construction allows the hose to maintain its shape and support itself once positioned.
- **Steel Wire Helix** – Steel wire provides strength and allows for use at higher temperatures without risk of hose deformation. Well suited for high cycle applications. ⚡
- **Interlock Construction** – Two sections can be joined by twisting them together. No mender required.



Nominal Specifications

| Series | | ID | | OD | | Working Pressure (PSI) | | Vacuum Rating (in. Hg) | | Min. Bending Radius (in.) @ 68°F | Length/Ctn. (ft.) | Approx. Contracted Shipping Length Hose Only (in.) | Weight (lbs./ft.) Hose Only |
|----------|----------|-------|-------|-------|-------|------------------------|-------|------------------------|-------|----------------------------------|-------------------|--|-----------------------------|
| Brown | White | (in.) | (mm) | (in.) | (mm) | 68°F | 104°F | 68°F | 104°F | | | | |
| EDB-150 | EDW-150 | 1 1/2 | 37.5 | 1.63 | 41.5 | 20 | 7 | 22 | 14 | 1.2 | 20 | 85 | 0.10 |
| EDB-200 | EDW-200 | 2 | 53.5 | 2.26 | 57.5 | 13 | 6 | 21 | 12 | 1.6 | 20 | 82 | 0.12 |
| EDB-250 | EDW-250 | 2 1/2 | 67.0 | 2.80 | 71.0 | 10 | 5 | 19 | 10 | 2.0 | 20 | 72 | 0.16 |
| EDB-300 | EDW-300 | 3 | 76.5 | 3.17 | 80.5 | 10 | 5 | 18 | 10 | 2.3 | 20 | 72 | 0.18 |
| EDB-400 | EDW-400 | 4 | 102.0 | 4.17 | 106.0 | 8 | 4 | 13 | 7 | 3.0 | 20 | 70 | 0.23 |
| EDB-500 | EDW-500 | 5 | 127.5 | 5.18 | 131.5 | 7 | 3 | 10 | 6 | 4.3 | 20 | 70 | 0.27 |
| EDB-600 | EDW-600 | 6 | 155.0 | 6.26 | 159.0 | 6 | 3 | 7 | 5 | 5.1 | 20 | 70 | 0.33 |
| EDB-800 | EDW-800 | 8 | 202.0 | 8.19 | 208.0 | 4 | 2 | 5 | 3 | 7.0 | 20 | 70 | 0.68 |
| EDB-1000 | EDW-1000 | 10 | 253.0 | 10.22 | 259.5 | 3 | 1 | 4 | 2 | 9.0 | 20 | 70 | 0.83 |
| EDB-1200 | EDW-1200 | 12 | 302.0 | 12.13 | 308.0 | 2 | 1 | 3 | 1 | 11.0 | 20 | 70 | 0.91 |

NOTE: Service life may vary depending on operating conditions and type of material being conveyed.

*Actual service temperature range is application dependent

⚡ **CAUTION:** This product is designed to dissipate static electricity when the metal wire is physically extracted and securely connected to ground, through the fitting or by other means.

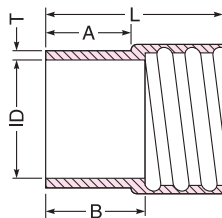
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



**CMCB™
Series Cuff**



**CMCW™
Series Cuff**

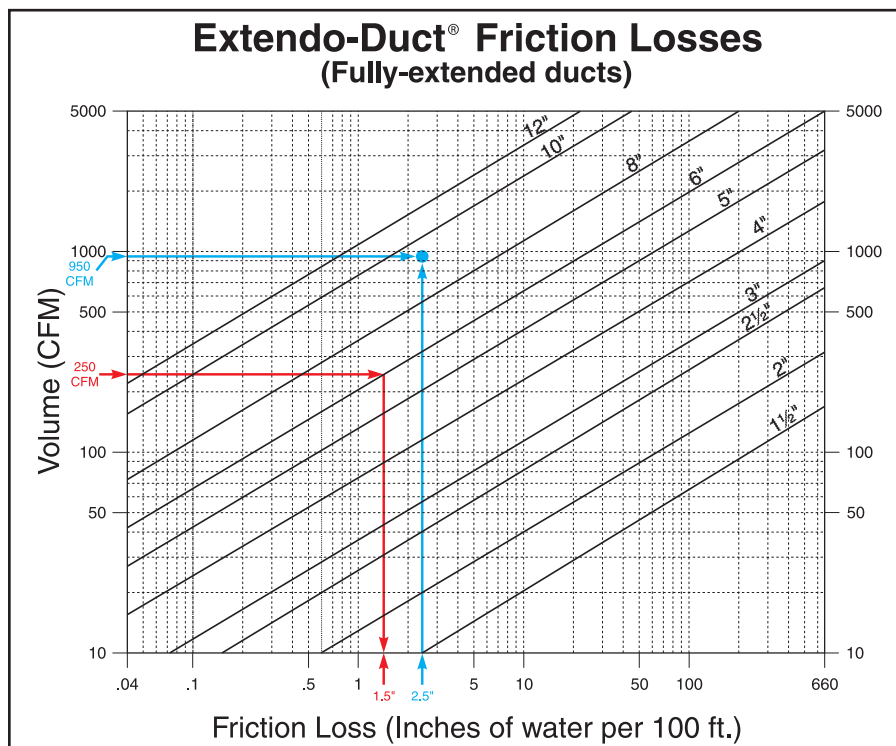


| Standard Stock Colors | | ID (in.) | L Total Length (in.) | A Cuff Length Outside (in.) | B Cuff Length Outside (in.) | T Thickness (mm) |
|-----------------------|-----------|----------|----------------------|-----------------------------|-----------------------------|------------------|
| Brown | White | | | | | |
| CMCB-150 | CMCW-150 | 1 1/2 | 2.76 | 1.38 | 1.57 | 3 |
| CMCB-200 | CMCW-200 | 2 | 2.76 | 1.38 | 1.57 | 3 |
| CMCB-250 | CMCW-250 | 2 1/2 | 2.76 | 1.38 | 1.57 | 3 |
| CMCB-300 | CMCW-300 | 3 | 3.15 | 1.57 | 1.77 | 3 |
| CMCB-400 | CMCW-400 | 4 | 3.54 | 1.77 | 1.97 | 3 |
| CMCB-500 | CMCW-500 | 5 | 3.74 | 1.77 | 1.93 | 3.5 |
| CMCB-600 | CMCW-600 | 6 | 3.94 | 1.77 | 2.17 | 3 |
| CMCB-800 | CMCW-800 | 8 | 3.94 | 1.89 | 2.05 | 5 |
| CMCB-1000 | CMCW-1000 | 10 | 5.04 | 2.52 | 2.52 | 5 |
| CMCB-1200 | CMCW-1200 | 12 | 5.04 | 2.52 | 2.52 | 5 |

† Molded cuffs are an additional purchase option. Material: EPT Rubber.

Extendo-Duct® Selection and Performance

The chart below provides the means by which friction losses resulting from airflow through any length of a given diameter of Extendo-Duct® hose can be calculated. The chart can also be used to aid in selecting the proper diameter Extendo-Duct® for use in an application, or for calculating the volume of air which will be delivered at the end of the hose. *It should be noted that this chart is the result of laboratory tests performed on fully-extended lengths of Extendo-Duct®.*



Calculating friction loss

The application requires 250 CFM and a 20 foot run of Extendo-Duct®. What would be the friction loss through a 6" diameter hose?

Draw a horizontal line at the desired CFM. Draw a vertical line downward from the point at which this horizontal line intersects the diagonal line for the desired hose diameter. Read the friction loss per 100 feet. Multiply this value by the hose length divided by 100.

In our example (shown in red on the graph): the vertical line drawn at the point of intersection of the horizontal 250 CFM line and the 6" dia. hose line shows 1.5" friction loss for 100 ft. of hose. Since the length is 20 ft., multiply the friction loss for 100 ft. by .20. The result is 0.3" friction loss.

Selecting the proper size Extendo-Duct®

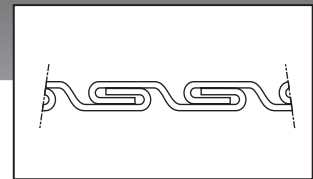
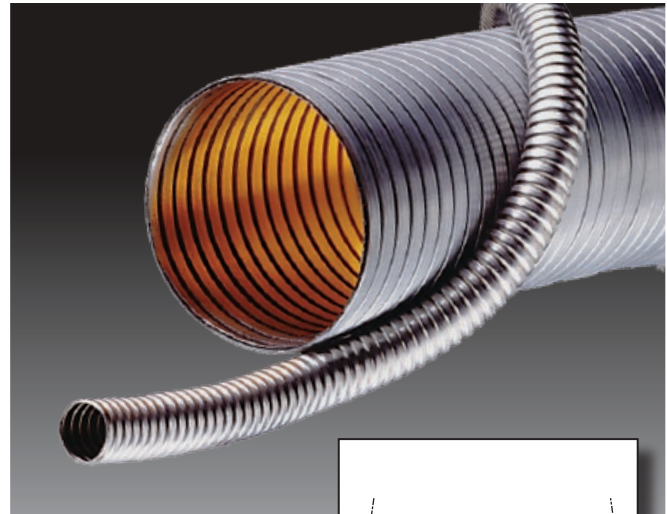
A 60 ft. length of Extendo-Duct® is required to supply 950 CFM. The fan is capable of providing 1.5" SP. What size hose should be selected?

Draw a horizontal line at the desired CFM. Draw a vertical line upward from the appropriate spot on the horizontal axis. The proper hose selection is shown by the slanted line immediately to the left of the point at which the horizontal and vertical lines intersect.

In our example (shown in blue): 1.5" SP / (60/100) = 2.5". The vertical line drawn at 2.5" intersects the horizontal line drawn at 950 CFM between the 8" and 10" hose lines. The 10" hose should be used.

Rough Bore (unlined) Interlocked Metal Hose

HTS4000 Series
HTG4000 Series



Applications:

- Abrasive material handling
- BOP (Blow out Protection) for hydraulic, cryogenic and other high pressure hoses
- Bulk truck and railcar unloading
- Dry bulk transfer
- Fly ash and soda handling
- Grain handling
- Transfer of high temperature air, gasses and materials
- Protective armor/shielding for hoses
- Truck tailpipe exhaust
- Vacuum trucks and equipment

Features and Advantages:

- **Conductive** – prevents the build-up of static electricity eliminating the risk of “hose arcing”.
- **Flexible** – corrugations allow for greater flexibility than lined metal hose.
- **Abrasion Resistant and Durable** – steel construction resists damage from abrasive and damaging materials.
- **Corrosion Resistant (Stainless Only)** – 304 stainless version resists corrosion making it resistant to the elements.
- **Heat Resistant** – can withstand very high temperatures allowing for the transfer of hot materials.
- **Full Vacuum**

Construction: A single strip of galvanized or 304 stainless steel wound into an interlocked metal hose, with or without packing materials.

Max Service Temperature: Galvanized: to 750°F (399°C), Stainless: to 1,500°F (816°C)

Nominal Specifications

| Weight | Series | Material | Wall Thickness (in.) | Max Service Temp (°F) |
|--------------------|---------|---------------------|----------------------|-----------------------|
| Extra Light Weight | HTG4100 | Galvanized Steel | 0.0110 | 750 |
| | HTS4100 | 304 Stainless Steel | 0.0110 | 1,500 |
| Light Weight | HTG4150 | Galvanized Steel | 0.0150 | 750 |
| | HTS4150 | 304 Stainless Steel | 0.0150 | 1,500 |
| Medium Weight | HTG4200 | Galvanized Steel | 0.0185 | 750 |
| | HTS4200 | 304 Stainless Steel | 0.0185 | 1,500 |

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



Rough Bore (unlined) Interlocked Metal Hose

HTS4000 Series

HTG4000 Series

Nominal Specifications

| Hose Size I.D. (in.) | HTG4100 HTS4100 | | HTG4150 HTS4150 | | HTG4200 HTS4200 | |
|-------------------------|--|----------------------|--|----------------------|--|----------------------|
| | Extra Light Weight | | Light Weight | | Med. Weight | |
| | Min. Inside Bend Radius (in.) | Weight (lbs./ft.) | Min. Inside Bend Radius (in.) | Weight (lbs./ft.) | Min. Inside Bend Radius (in.) | Weight (lbs./ft.) |
| 1 3/8 | 4.25 | 0.45 | 5.00 | 0.60 | — | — |
| 1 1/2 | 4.75 | 0.50 | 5.50 | 0.70 | 6.00 | 1.00 |
| 1 5/8 | 5.00 | 0.54 | 5.75 | 0.75 | 6.50 | 1.05 |
| 1 3/4 | 5.25 | 0.58 | 6.00 | 0.80 | 7.00 | 1.10 |
| 1 7/8 | 5.50 | 0.62 | 6.25 | 0.85 | 7.50 | 1.20 |
| 2 | 6.00 | 0.70 | 6.50 | 0.90 | 8.00 | 1.30 |
| 2 1/4 | 6.75 | 0.75 | 7.25 | 1.10 | 8.50 | 1.45 |
| 2 1/2 | 7.50 | 0.80 | 8.00 | 1.20 | 9.00 | 1.60 |
| 2 3/4 | 8.75 | 0.90 | 8.25 | 1.30 | 10.00 | 1.80 |
| 3 | 10.00 | 1.00 | 10.50 | 1.40 | 11.00 | 2.00 |
| 3 1/4 | 10.50 | 1.10 | 11.25 | 1.50 | 12.00 | 2.10 |
| 3 1/2 | 11.00 | 1.20 | 12.00 | 1.60 | 12.50 | 2.30 |
| 4 | 12.50 | 1.40 | 13.50 | 1.80 | 14.50 | 2.60 |
| 4 1/2 | 14.00 | 1.50 | 15.00 | 2.00 | 16.00 | 2.90 |
| 5 | 15.00 | 1.70 | 16.00 | 2.30 | 17.00 | 3.00 |
| 5 1/4 | 16.00 | 1.80 | 17.25 | 2.40 | 18.00 | 3.15 |
| 5 1/2 | 17.50 | 1.90 | 18.50 | 2.50 | 19.50 | 3.30 |
| 6 | 20.00 | 2.00 | 21.00 | 2.70 | 22.00 | 3.60 |
| 6 1/4 | 20.50 | 2.10 | 21.50 | 2.80 | 23.00 | 3.75 |
| 6 1/2 | 21.00 | 2.20 | 22.00 | 2.95 | 23.50 | 3.90 |
| 7 | 22.00 | 2.40 | 23.00 | 3.20 | 25.00 | 4.20 |
| 7 1/4 | 23.00 | 2.50 | 23.75 | 3.30 | 26.00 | 4.30 |
| 7 1/2 | 24.00 | 2.60 | 24.50 | 3.40 | 26.50 | 4.40 |
| 8 | 25.00 | 2.70 | 26.00 | 3.60 | 28.00 | 4.70 |
| 9 | — | — | 28.25 | 4.05 | 30.50 | 5.30 |
| 9 1/2 | — | — | 29.50 | 4.25 | 31.50 | 5.60 |
| 10 | — | — | 30.50 | 4.50 | 32.50 | 5.90 |
| 11 | — | — | 33.00 | 5.00 | 35.50 | 6.50 |
| 11 1/4 | — | — | 33.75 | 5.10 | 36.00 | 6.60 |
| 11 1/2 | — | — | 34.50 | 5.20 | 37.00 | 6.75 |
| 12 | — | — | 36.00 | 5.40 | 38.00 | 7.00 |
| 14 | — | — | 50.00 | 6.30 | 53.00 | 8.10 |
| 16 | — | — | — | — | 60.50 | 9.20 |



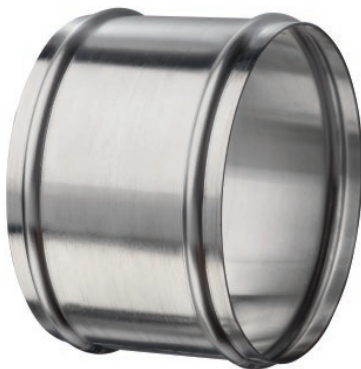
**Bridge Clamp for Ducting Hoses
300 Stainless Worm Gear Band
(For Tigerflex™ Counterclockwise Spiral Hoses)**

| Part Number | Size (in.) | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|------------------|--------------------|-----------------|
| DCLPL250 | 2 1/2 | 2 3/8 - 2 3/4 | 0.086 | 200 |
| DCLPL300 | 3 | 2 7/8 - 3 3/8 | 0.093 | 200 |
| DCLPL400 | 4 | 3 1/2 - 4 1/2 | 0.130 | 200 |
| DCLPL500 | 5 | 4 3/8 - 5 1/4 | 0.143 | 200 |
| DCLPL600 | 6 | 5 1/4 - 6 1/4 | 0.167 | 200 |
| DCLPL700 | 7 | 6 1/4 - 7 1/4 | 0.175 | 200 |
| DCLPL800 | 8 | 7 3/8 - 8 3/8 | 0.207 | 100 |
| DCLPL1000 | 10 | 9 1/4 - 10 1/4 | 0.242 | 100 |
| DCLPL1200 | 12 | 11 1/4 - 12 1/4 | 0.284 | 100 |



**Bridge Clamp for Ducting Hoses
300 Stainless Worm Gear Band
(For Flexair™ Clockwise Spiral Hoses)**

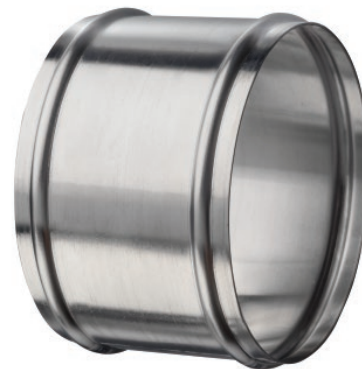
| Part Number | Size (in.) | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|------------------|--------------------|-----------------|
| DCLPR250 | 2 1/2 | 2 3/8 - 2 3/4 | 0.086 | 200 |
| DCLPR300 | 3 | 2 7/8 - 3 3/8 | 0.093 | 200 |
| DCLPR400 | 4 | 3 1/2 - 4 1/2 | 0.130 | 200 |
| DCLPR500 | 5 | 3 1/2 - 4 1/2 | 0.143 | 200 |
| DCLPR600 | 6 | 4 1/4 - 5 1/4 | 0.167 | 200 |
| DCLPR700 | 7 | 5 1/4 - 6 1/4 | 0.175 | 200 |
| DCLPR800 | 8 | 7 3/8 - 8 3/8 | 0.207 | 100 |
| DCLPR1000 | 10 | 9 1/4 - 10 1/4 | 0.242 | 100 |
| DCLPR1200 | 12 | 11 1/4 - 12 1/4 | 0.284 | 100 |



NEW

**Aluminum Ducting Hose Menders
(For URE-CL, URE-BK, UREH-CL, VID-CL,
and TMOD Series)**

| Part Number | Size (in.) | Weight Each (lbs.) |
|-------------|------------|--------------------|
| DHM-AL600 | 6 | 0.28 |
| DHM-AL800 | 8 | 0.38 |
| DHM-AL1000 | 10 | 0.49 |
| DHM-AL1200 | 12 | 0.60 |



NEW

**Stainless Steel Ducting Hose Menders
(For URE-CL, URE-BK, UREH-CL, VID-CL,
and TMOD Series)**

| Part Number | Size (in.) | Weight Each (lbs.) |
|-------------|------------|--------------------|
| DHM-SS600 | 6 | 0.40 |
| DHM-SS800 | 8 | 0.54 |
| DHM-SS1000 | 10 | 0.68 |
| DHM-SS1200 | 12 | 0.76 |

Note: Ducting menders to be used in conjunction with two bridge clamps.

Accessories Compatibility Chart

| Series | Clamp | | Coupling | |
|----------|-------|-------|----------|--------|
| | DCLPR | DCLPL | DHM-AL | DHM-SS |
| CG | - | G | - | - |
| EDB/EDW | - | G | - | - |
| GT/GTG | - | G | - | - |
| GTF/GTFE | - | G | - | - |
| HTNP2 | G | - | - | - |
| LK/LKC | - | G | - | - |
| SDH | * | * | - | - |
| TMOD | G | - | G | G |
| URE-BK | G | - | G | G |
| URE-CL | G | - | G | G |
| UREH-CL | G | - | G | G |
| UV1/UVF | - | G | - | - |
| UV2 | - | † | - | - |
| UVF | - | G | - | - |
| VID-CL | G | - | G | G |

* For SDH series use of WGC series clamps suggested

† For UV2 use of SDBC series clamps suggested



SDBC series
SDB-SS series



WGC-CS series
WGC-SS series

For information on SDBC & WGC Clamps refer to standard KOA Coupling catalogs.

Cuffed Ends



- Available on HTNP2, URE-BK, URE-CL, UREH-CL and VID-CL Series.
- Provides a smooth surface without wire helix interference for easy installation and a tighter seal.
- Call for pricing and availability. Minimum order quantities may apply.

Compliance Footnotes for Flexair™ Catalog Products

- (01) 3A – Material approved by 3-A Sanitary Standards, Inc. for multi-use plastic materials, number: 20-25, as product contact surfaces in equipment for production, processing and handling of milk and milk products.
- (02) BSE/TSE – The majority of the raw materials used in our formulations are not manufactured or derived from materials of animal origin. Nor do our products come into contact with materials of animal origin during processing. Our suppliers of raw materials have assured us their compounds exceed the relevant European Guidance on minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents Via Human and Veterinary Medical Products.
- (03) FDA – Material conforms to CFR title 21, parts 170-199.
- (04) MSHA – Hose approved by the United States Department of Labor’s Mine Safety and Health Administration as having met Part 18, Title 30 CFR, and the Interim Fire Criteria for Acceptance of Products Taken into Underground Mines as water transfer hose.
- (05) Phthalate Free – Manufactured from all phthalate free materials.
- (06) RoHS – The product complies with the requirements of the EU directive 2002/95/EC which is on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- (07) UL94V-0 – Meets UL94V-0 rating of the standard for safety of Flammability of Plastic Material in Devices and Appliances Testing.
- (08) USDA – Hose approved by the US Department of Agriculture for use in federally inspected meat and poultry plants.

Chemical Resistance Guide Warning

The Chemical Resistance Guides shown on the following page is intended for general guidance only. The information contained therein is based upon tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No warranty is expressed or implied, as specific application parameters, such as temperature, pressure and chemical concentrations vary widely. Furthermore, use of these hoses for handling multiple chemical products, either singly or as a mixture, may introduce uncontrollable factors relating to chemical resistance.

Before using any hose, the user is responsible for determining the suitability of the hose for the intended application. Therefore, the user assumes all risk and responsibility for determining the suitability of any hose for handling any chemical or chemicals.

Chemical Resistance Guide

Key: 1- GOOD RESISTANCE 2 - FAIR RESISTANCE 3 - POOR RESISTANCE - NO DATA

| Transferred Material (@ 68°F) | Hose Material Construction | | | | | | |
|-------------------------------|----------------------------|----|-----|----------|-----|-------------|-------------|
| | Neoprene | PP | PVC | Silicone | TPR | TPU (Ester) | TPU (Ether) |
| Acetic Acid (30%) | 2 | 1 | 1 | 1 | 1 | 3 | - |
| Acetone | 2 | 1 | 3 | - | 1 | 2 | 3 |
| Acetylene | 2 | - | 1 | 1 | - | 1 | - |
| Aniline (Aminobenzene) | 3 | 1 | 2 | - | 1 | 3 | - |
| Benzene | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| Boric Acid | 3 | 1 | 1 | 1 | 1 | 3 | 1 |
| Bromine | 3 | 3 | 3 | 3 | - | 3 | - |
| Butane | 1 | - | - | 3 | 1 | 1 | - |
| Calcium Chloride | - | 1 | 1 | 1 | 1 | 2 | 1 |
| Carbon Dioxide | 1 | - | - | 1 | 1 | - | 1 |
| Carbon Monoxide | 1 | - | 1 | 1 | 1 | 1 | 1 |
| Carbon Tetrachloride | 3 | 3 | 3 | 3 | - | 2 | 3 |
| Chlorine, Dry | 2 | 3 | 2 | - | 3 | 3 | - |
| Chlorine, Wet | 3 | 3 | 3 | - | 3 | 3 | - |
| Chloroform (Trichloromethane) | 3 | - | 3 | 3 | 3 | 3 | - |
| Chromic Acid (25%) | 3 | 3 | - | 2 | - | 3 | 3 |
| Citric Acid | 1 | 1 | 1 | 1 | 1 | 3 | 1 |
| Diethylene Glycol | 1 | - | 1 | 1 | - | - | - |
| Ethyl Alcohol (Ethanol) | 1 | 1 | 1 | 1 | 1 | - | 2 |
| Ethyl Chloride | 2 | - | 3 | 3 | 3 | 3 | - |
| Ethylene Glycol | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Formaldehyde | - | 2 | 3 | - | - | - | - |
| Formic Acid (10%) | - | 1 | - | 1 | 1 | 3 | 3 |
| Glycerine | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Heptane | 3 | - | 2 | 3 | 3 | 1 | - |
| Hexane | - | - | 2 | 3 | 2 | - | - |
| Hydrogen | 1 | - | 1 | - | 1 | 1 | - |
| Isobutyl Alcohol | 1 | - | 1 | 1 | - | - | 1 |
| Isooctane | - | - | 1 | - | - | 1 | - |
| Isopropyl Alcohol | - | - | 1 | - | - | - | 1 |
| Kerosene | - | - | 3 | 3 | 3 | 1 | 1 |
| Methyl Ethyl Ketone (MEK) | 3 | 2 | 3 | 3 | 1 | 2 | 2 |
| Methane | 1 | - | 1 | 3 | - | - | - |
| Methyl Alcohol | 1 | 1 | 2 | 1 | - | 2 | - |
| Methylene Chloride | 3 | 2 | 3 | 3 | 3 | 3 | - |
| Naptha | - | - | 3 | 3 | 2 | 1 | 2 |
| Napthalene | 3 | 3 | 3 | 3 | 2 | - | 1 |
| Natural Gas | 1 | - | - | 1 | - | 1 | - |
| Nitric Acid (10%) | 1 | 2 | 1 | 1 | 1 | 3 | - |
| Nitrogen | - | - | - | - | - | - | - |
| Nitrous Oxide | - | - | 1 | - | - | 1 | - |
| Oleic Acid | 3 | 2 | 1 | 3 | 1 | 3 | 1 |
| Oleum | 3 | - | 3 | - | 3 | 3 | - |
| Ozone | 2 | - | 2 | 1 | 1 | - | 1 |
| Paraffin | - | - | 1 | - | - | - | 1 |
| Perchloroethylene | 3 | 3 | 3 | 2 | 3 | - | - |
| Propane Gas | - | - | 1 | - | 3 | 1 | - |
| Salt/Sea Water | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| Sodium Hydroxide (10%) | 1 | 1 | 2 | - | 1 | 2 | - |
| Sodium Hydroxide (50%) | 1 | 1 | 3 | - | 1 | 3 | - |
| Sodium Hypochlorite (10%) | - | 1 | - | - | 1 | 2 | 2 |
| Sulfuric Acid (10%) | 1 | 1 | - | 3 | 1 | 2 | - |
| Sulfuric Acid (50%) | 3 | 1 | 3 | 3 | 2 | 3 | - |
| Tetrahydrofurane | 3 | 3 | 3 | - | 1 | 3 | - |
| Trichloroethylene | 3 | 3 | 3 | - | 3 | 2 | 3 |
| Turpentine | 3 | 3 | 2 | 3 | 3 | - | 3 |
| Urea | 1 | - | - | - | 1 | - | - |
| Vinegar | 2 | - | 1 | 1 | 1 | - | 1 |
| Xylene | 3 | 3 | 3 | 3 | 3 | - | 3 |

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Cautionary Statement

All Products sold and distributed by Kuriyama of America, Inc. are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or Products for the intended purposes, uses or applications.

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Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

Limited Warranty

The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. ALL WARRANTY CLAIMS SHALL BE MADE WITHIN SIX (6) MONTHS AFTER SELLER SHIPPED THE PRODUCTS. SELLER'S LIABILITY HEREUNDER IS LIMITED AT SELLER'S EXCLUSIVE DISCRETION, TO 1) THE PURCHASE PRICE OF ANY PRODUCTS PROVING DEFECTIVE; 2) REPAIR OF ANY DEFECTIVE PRODUCT OR PART THEREOF; OR 3) REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART UPON ITS AUTHORIZED RETURN TO SELLER.

THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE CREATED UNDER APPLICABLE LAW INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SELLER OR THE MANUFACTURER OF THE PRODUCT BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF PROFITS, WHETHER OR NOT CAUSED BY OR RESULTING FROM THE NEGLIGENCE OF SELLER AND/OR THE MANUFACTURER OF THE PRODUCT, UNLESS SPECIFICALLY PROVIDED HEREIN. IN ADDITION, THIS WARRANTY SHALL NOT APPLY TO ANY PRODUCTS OR PORTIONS THEREOF WHICH HAVE BEEN SUBJECTED TO ABUSE, MISUSE, IMPROPER INSTALLATION, MAINTENANCE, OR OPERATION, ELECTRICAL FAILURE OR ABNORMAL CONDITIONS, AND TO PRODUCTS WHICH HAVE BEEN TAMPERED WITH, ALTERED, MODIFIED, REPAIRED, REWORKED BY ANYONE NOT APPROVED BY SELLER, OR USED IN ANY MANNER INCONSISTENT WITH THE PROVISIONS OF THE "CAUTIONARY STATEMENT" ABOVE OR ANY INSTRUCTIONS OR SPECIFICATIONS PROVIDED WITH OR FOR THE PRODUCT.

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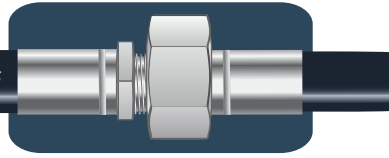


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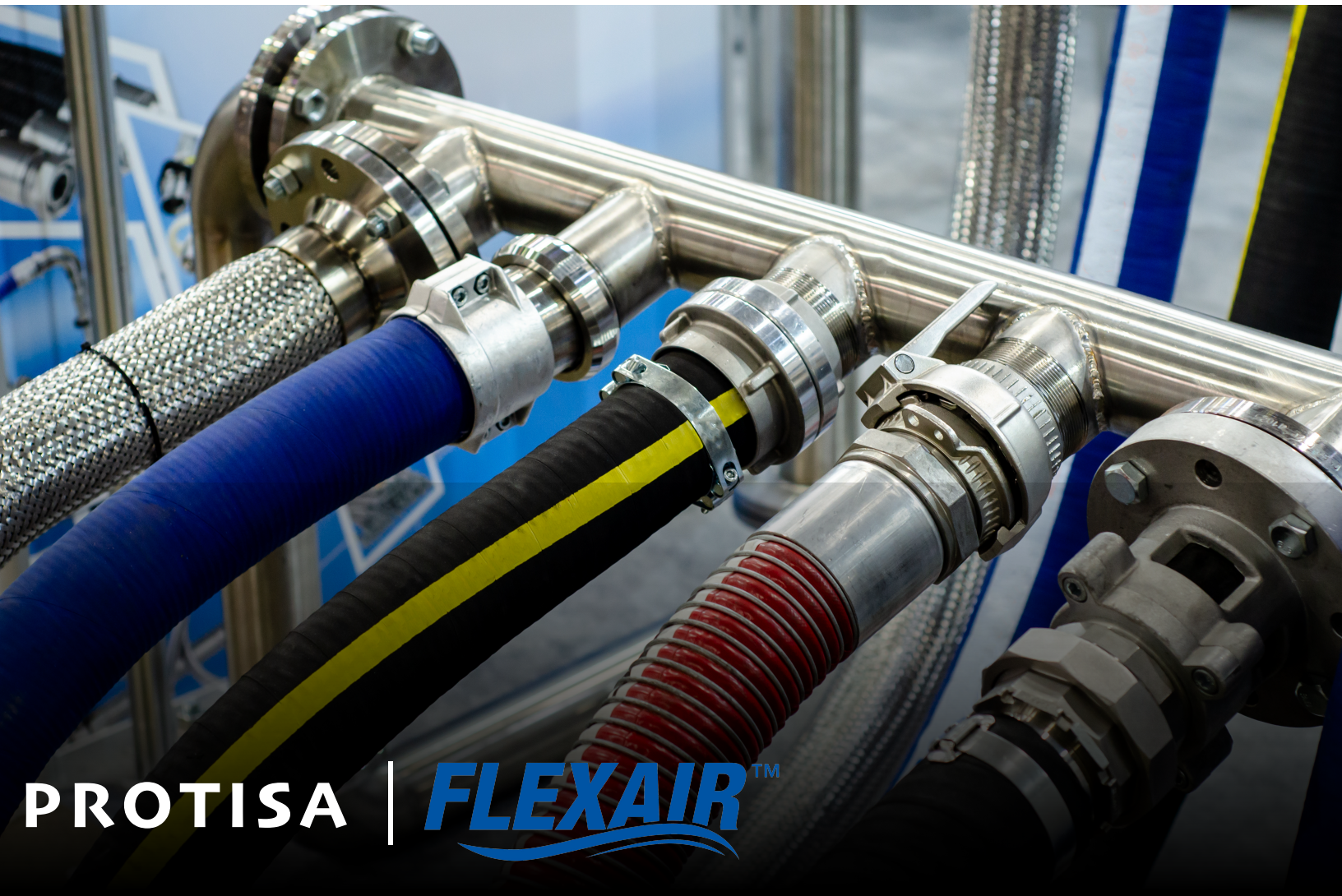
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