

# Food Service Industry Hose

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# Food Service Industry Hose

## Intro

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**⚠ WARNING:** Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

**⚠ WARNING:** Failure to properly follow the manufacturer's recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

**⚠ WARNING:** Consult with the coupling manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer's instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.

**⚠ WARNING:** Consider both working pressure and pressure surges when determining "maximum" pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

**⚠ WARNING:** Do not use hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.

**⚠ WARNING:** Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.

### FOOD INDUSTRY & TRANSFER HOSE BENEFITS

#### 4:1 Safety Factor (Burst: Working Pressure)

- Safer operation.
- Longer hose life.

#### Remove the Guesswork from Selecting, Buying and Using Critical Application Hose

- When you are handling easily contaminated or hazardous material it is critical to select the proper hose. The high visibility branding and color coding removes the guesswork from hose selection.

#### Environmental Resistance

- The tube and cover materials of the Eaton "Big Cats" are designed to assure maximum life and top value. They are sophisticated hoses for demanding jobs.

### Built to Make Work Faster, Easier and Safer

- Moving and connecting hose several times a day isn't easy work. Each of the "Big Cats" is designed to be as easy to handle as safety and job performance will allow.

### Honest Value

- There is only one way to make hose cost less—build it cheaper. You won't find compromises in the "Big Cats". That's why we put the Eaton brand name on them.

### The Eaton Reputation for Quality

- Your assurance of dependable performance.

### Clearforce - NR



**Material:** Clear PVC, FDA approved material, NSF-51 Certified

**Color:** Clear

**Tolerance:** +.005 I.D. and O.D.

**Temperature Range:** +15°F to +150°F

**Working Pressure:** 20-65 psi

**Type Of Coupling:** Barbed Inserts with Outer Sleeve, Ferrule or Clamps.

#### Features:

- Clear PVC tube
- Non-marking cover
- Constructed from FDA approved materials
- Factory tested to exceed minimum electrical resistivity of one megohm per inch at 1000 volts D.C.

#### Advantages:

- Moderate oil resistance
- Abrasive, age, and ozone resistance, won't mark white surfaces; flow or blockage is readily visible
- Acceptable in food markets

#### Markets:

- Food processing
- Industrial

#### Applications:

- Food and beverage dispensing; bottling plants, ice making machines
- Air-conditioning drainage, refrigeration drainage, furnace drainage



| Product Number | Nominal I.D. |      | Nominal O.D. |      | Maximum Working Press. (psi) | Standard Length (Ft) |
|----------------|--------------|------|--------------|------|------------------------------|----------------------|
|                | (in.)        | (mm) | (in.)        | (mm) |                              |                      |
| H160204-100    | 1/8          | 3.2  | 1/4          | 6.4  | 65                           | 100*                 |
| H160305-100    | 3/16         | 4.7  | 5/16         | 7.9  | 55                           | 100*                 |
| H160406-100    | 1/4          | 6.4  | 3/8          | 9.5  | 55                           | 100*                 |
| H160408-100    | 1/4          | 6.4  | 1/2          | 12.7 | 60                           | 100*                 |
| H160507-100    | 5/16         | 7.9  | 7/16         | 11.1 | 50                           | 100*                 |
| H160608-100    | 3/8          | 9.5  | 1/2          | 12.7 | 45                           | 100*                 |
| H160609-100    | 3/8          | 9.5  | 9/16         | 14.3 | 50                           | 100*                 |
| H160610-100    | 3/8          | 9.5  | 5/8          | 15.9 | 55                           | 100*                 |
| H160810-100    | 1/2          | 12.7 | 5/8          | 15.9 | 30                           | 100*                 |
| H160811-100    | 1/2          | 12.7 | 11/16        | 17.3 | 40                           | 100*                 |
| H160812-100    | 1/2          | 12.7 | 3/4          | 19.1 | 45                           | 100*                 |
| H161013-100    | 5/8          | 15.9 | 13/16        | 20.6 | 35                           | 100*                 |
| H161014-100    | 5/8          | 15.9 | 7/8          | 22.2 | 40                           | 100*                 |
| H161216-100    | 3/4          | 19.1 | 1            | 25.4 | 35                           | 100*                 |
| H161418-100    | 7/8          | 22.2 | 1-1/8        | 28.6 | 30                           | 100**                |
| H161620-100    | 1            | 25.4 | 1-1/4        | 31.8 | 25                           | 100**                |
| H162024-100    | 1-1/4        | 31.8 | 1-1/2        | 38.1 | 20                           | 100**                |
| H162430-100    | 1-1/2        | 38.1 | 1-7/8        | 47.6 | 25                           | 100**                |
| H162432-100    | 1-1/2        | 38.1 | 2            | 50.1 | 35                           | 100**                |
| H163240-100    | 2            | 50.1 | 2-1/2        | 63.5 | 35                           | 100**                |

Stated working pressures are tested at 68°F. Working pressure decreases as temperature increases. Contact Eaton for further information.

\* Standard length pattern in boxes. \*\* Standard length pattern in coils.

### Clearforce - R



**Tube:** Clear PVC, FDA approved materials, NSF-51 Certified

**Reinforcement:** Fiber, 2 Spiral

**Cover:** Clear PVC, FDA approved materials, NSF-51 Certified

**Color:** Clear

**Tolerance:** +.005 I.D. and O.D.

**Temperature Range:** +15°F to +150°F

**Type Of Branding:** Ink Print

**Working Pressure:** 75-250 psi

**Type Of Coupling:** 'E' Series, 265 'P' Series, Barbed Inserts, Quick Acting, Short or Long Shank. Clamps—Band, Brass Collars, or Single Bolt. **Do not use internal expanded couplings.**

#### Features:

- Lightweight
- Flexible
- Clear PVC tube
- Clear PVC non-marking cover
- 95% one piece coils
- Continuous permanent brand
- Constructed from FDA approved materials
- Factory tested to exceed minimum electrical resistivity of one megohm per inch at 1000 volts D.C.

#### Advantages:

- Easy to handle
- Easily routed
- Moderated oil resistance
- Abrasion, age, and ozone resistant, won't mark white surfaces; flow or blockage is readily visible
- Economical; less waste
- Easily identifiable
- Acceptable in food markets

#### Markets:

- Agriculture
- Food processing
- Marine
- Industrial

#### Applications:

- Spraying and conveying fertilizer and pesticides
- Food and beverage dispensing; powdered food manufacturing; bottling plants; dish washer manufacturers
- Water and bilge lines; washdown hose, etc.
- In-plant air and water service

| Product Number | Nominal I.D. |      | Reinf. | Nominal O.D. |      | Approx. lbs. Weight Per 100 Ft. | Maximum Working Press. (psi) | Standard Coils (Ft)* |
|----------------|--------------|------|--------|--------------|------|---------------------------------|------------------------------|----------------------|
|                | (in.)        | (mm) |        | (in.)        | (mm) |                                 |                              |                      |
| H28503-300     | 3/16         | 4.7  | 2 Sp   | 3/8          | 9.5  | 5                               | 250                          | 300                  |
| H28504         | 1/4          | 6.4  | 2 Sp   | 29/64        | 11.5 | 7                               | 250                          | 50                   |
| H28504-300R    |              |      |        |              |      |                                 |                              | 300                  |
| H28505-300R    | 5/16         | 7.9  | 2 Sp   | 17/32        | 13.5 | 8                               | 250                          | 300                  |
| H28506         | 3/8          | 9.5  | 2 Sp   | 19/32        | 15.1 | 9                               | 225                          | 50                   |
| H28506-300R    |              |      |        |              |      |                                 |                              | 300                  |
| H28508         | 1/2          | 12.7 | 2 Sp   | 3/4          | 19.1 | 15                              | 200                          | 50                   |
| H28508-300R    |              |      |        |              |      |                                 |                              | 300                  |
| H28510-300R    | 5/8          | 15.9 | 2 Sp   | 7/8          | 22.2 | 17                              | 200                          | 300                  |
| H28512         | 3/4          | 19.1 | 2 Sp   | 1-1/32       | 26.2 | 23                              | 150                          | 50                   |
| H28512-300R    |              |      |        |              |      |                                 |                              | 300                  |
| H28516         | 1            | 25.4 | 2 Sp   | 1-5/16       | 33.3 | 32                              | 125                          | 50                   |
| H28516-200R    |              |      |        |              |      |                                 |                              | 200                  |
| H28520-100     | 1-1/4        | 31.8 | 2 Sp   | 1-11/16      | 42.9 | 58                              | 100                          | 100                  |
| H28524-100     | 1-1/2        | 38.1 | 2 Sp   | 1-15/16      | 49.2 | 69                              | 100                          | 100                  |
| H28532-100     | 2            | 50.1 | 2 Sp   | 2-1/2        | 63.5 | 100                             | 75                           | 100                  |

Stated working pressures are tested at 68°F. Working pressure decreases as temperature increases. See chart on page A-12 showing the relationship between working pressure and temperature for reinforced PVC hose.

\* 95% one piece coils.

### Aquaforce



**Tube:** Clear PVC, FDA approved materials, NSF-51 Certified

**Reinforcement:** Fiber, 2 Spiral

**Cover:** PVC/Pinpricked

**Color:** Red

**Temperature Range:** +15°F to +150°F

**Type Of Branding:** Ink Print

**Working Pressure:** 150 psi

**Type Of Coupling:** Barbed Inserts, Quick Acting, Short or Long Shank. Clamps—Single Bolt, Brass Collar, or Band.

**Do not use internal expanded couplings.**

#### Features:

- Clear PVC tube
- Non-marking PVC cover
- Constructed from FDA approved materials
- Factory tested to exceed minimum electrical resistivity of one megohm per inch at 1000 volts D.C.

#### Advantages:

- Moderate oil resistance
- Abrasive, age, and ozone resistance, won't mark white surfaces; flow or blockage is readily visible
- Acceptable in food markets

#### Markets:

- Food processing
- Industrial

#### Applications:

- Food and beverage dispensing; bottling plants, ice making machines
- Air-conditioning drainage, refrigeration drainage, furnace drainage

| Product Name  | Nominal I.D. |      | Reinf. | Nominal O.D. |      | Approx. lbs. Weight Per 100 Ft. | Maximum Working Press. (psi) | Standard Length (Ft)** |
|---------------|--------------|------|--------|--------------|------|---------------------------------|------------------------------|------------------------|
|               | (in.)        | (mm) |        | (in.)        | (mm) |                                 |                              |                        |
| H159208-300R* | 1/2          | 12.7 | 2 Sp   | 3/4          | 19.1 | 15                              | 200                          | 300                    |
| H159212-300R* | 3/4          | 19.1 | 2 Sp   | 1-1/32       | 26.2 | 23                              | 150                          | 300                    |
| H159216-200R* | 1            | 25.4 | 2 Sp   | 1-5/16       | 33.3 | 32                              | 125                          | 200                    |

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

\*\* 95% one piece coils

Stated working pressures are tested at 68°F. Working pressure decreases as temperature increases. See chart on page A-12 showing the relationship between working pressure and temperature for reinforced PVC hose.



### Grey Food Transfer



**Tube:** Vinyl Nitrile, FDA Approved Materials  
**Reinforcement:** Fiber, 2 Ply and Helical Wire  
**Cover:** Vinyl Nitrile  
**Color:** Grey  
**Temperature Range:** -40°F to +180°F

**Type Of Branding:** Embossed  
**Suction:** Full Vacuum  
**Working Pressure:** 150 psi (Depending on coupling)  
**Type Of Coupling:** Cam and Groove, Combination Nipple or Swaged/Crimped/Internal Expanded. Clamps—Band.

#### Features:

- Vinyl nitrile cover
- Vinyl nitrile tube
- Continuous permanent brand
- Grey cover
- Smooth bore

#### Advantages:

- Abrasion, animal fat, oil and weather resistant
- Animal and vegetable oil resistant
- Easy identification
- Meets FDA requirements
- Rapid fluid flow
- Easy to clean

#### Markets:

- Food industry
- Tank truck
- Rail car
- In-plant

#### Applications:

- Transfer by pumping, suction, and discharge of non-dairy food products
- Transfer of bulk liquid, sugar, syrups, and vegetable oils from tank trucks to candy manufacturers, bottling plants, processors, etc.

| Product Number | Nominal I.D. (in.) | (mm)  | Reinf. | Nominal O.D. (in.) | (mm)  | Approx. lbs. Weight Per 100 Ft. | Maximum Working Press. (psi) | Minimum Bend Radius (in.) | (mm)  | Standard Length (Ft) |
|----------------|--------------------|-------|--------|--------------------|-------|---------------------------------|------------------------------|---------------------------|-------|----------------------|
| H038424-100    | 1-1/2              | 38.1  | 2 Ply  | 2-1/8              | 54.0  | 120                             | 150                          | 4                         | 101.6 | 100                  |
| H038432-100    | 2                  | 50.8  | 2 Ply  | 2-5/8              | 66.7  | 145                             | 150                          | 5                         | 127.0 | 100                  |
| H038448-100    | 3                  | 76.2  | 2 Ply  | 3-5/8              | 92.1  | 220                             | 150                          | 9                         | 228.6 | 100                  |
| H038464-100    | 4                  | 101.6 | 2 Ply  | 4-5/8              | 117.5 | 315                             | 150                          | 11                        | 279.4 | 100                  |

*White cover available as a made-to-order.*

### Lion Food Transfer



**Tube:** Vinyl Nitrile, FDA Approved Materials

**Reinforcement:** Fiber, 2 Ply and Helical Wire

**Cover:** Vinyl Nitrile

**Color:** White

**Temperature Range:** -40°F to +180°F

**Type Of Branding:** Printed strip

**Suction:** Full Vacuum

**Working Pressure:** 250 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove, Combination Nipple or Swaged/Crimped/Internal Expanded. Clamps—Band.

#### Features:

- Vinyl nitrile cover
- Vinyl nitrile tube
- Printed strip brand every ten feet
- White tube and cover
- Smooth bore

#### Advantages:

- Abrasion, animal fat, oil and weather resistant
- Animal and vegetable oil resistant
- Easy identification
- Meets FDA requirements
- Rapid fluid flow
- Easy to clean

#### Markets:

- Food industry
- Tank truck
- Rail car

#### Applications:

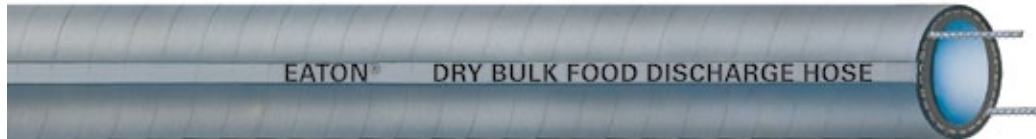
- Transfer by pumping, suction, and discharge of non-dairy food products
- Transfer of bulk liquid, sugar, syrups, and vegetable oils from tank trucks to candy manufacturers, bottling plants, processors, etc.

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| Product Number | Nominal I.D. (in.) | Nominal I.D. (mm) | Reinf. | Nominal O.D. (in.) | Nominal O.D. (mm) | Approx. lbs. Weight Per 100 Ft. | Maximum Working Press. (psi) | Minimum Bend Radius (in.) | Minimum Bend Radius (mm) | Standard Length (Ft) |
|----------------|--------------------|-------------------|--------|--------------------|-------------------|---------------------------------|------------------------------|---------------------------|--------------------------|----------------------|
| H035024-150*   | 1-1/2              | 38.1              | 2 Ply  | 2-1/8              | 54.0              | 130                             | 250                          | 4.0                       | 101.6                    | 150                  |
| H035032-150    | 2                  | 50.8              | 2 Ply  | 2- 5/8             | 66.7              | 160                             | 250                          | 5.0                       | 127.0                    | 150                  |
| H035048-150    | 3                  | 76.2              | 2 Ply  | 3-5/8              | 92.1              | 213                             | 250                          | 12.5                      | 317.5                    | 150                  |
| H035064-150    | 4                  | 101.6             | 2 Ply  | 4-21/32            | 118.3             | 352                             | 250                          | 12.5                      | 317.5                    | 150                  |

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

### Dry Bulk Food Discharge



**Tube:** White Natural Rubber, FDA Approved Materials

**Reinforcement:** 2 Ply Fiber with Dual Stainless Steel Static Wires

**Cover:** Natural Rubber/SBR Blend

**Color:** Grey

**Temperature Range:** -20°F to +160°F

**Type Of Branding:** Embossed

**Discharge:** Dry Bulk Food Discharge

**Working Pressure:** 50 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove.  
Clamps—Band.

#### Features:

- Grey SBR/natural rubber cover
- 7/32" natural rubber tube (white)
- Continuous printed brand
- Longer lengths
- Minimum 4-to-1 safety factor
- Dual static wire

#### Advantages:

- Abrasion and weather resistant
- Abrasion resistant for dry bulk food; FDA approved materials
- Easy identification
- Economical; less waste
- Meets industry standards
- Ground to coupling for increased static dissipation

#### Markets:

- Food industry
- Plastic industry
- Tank truck industry

#### Applications:

- Transfer of dry bulk food products
- Transfer of plastic pellets
- Transfer of bulk sugar, flour, rice, corn starch, and plastic pellets.

| Product Number | Nominal I.D. (in.) | Nominal I.D. (mm) | Reinf. | Nominal O.D. (in.) | Nominal O.D. (mm) | Approx. lbs. Weight Per 100 Ft. | Maximum Working Press. (psi) | Minimum Bend Radius (in.) | Minimum Bend Radius (mm) | Standard Length (Ft) |
|----------------|--------------------|-------------------|--------|--------------------|-------------------|---------------------------------|------------------------------|---------------------------|--------------------------|----------------------|
| H041364-100    | 4                  | 101.6             | 2 Ply  | 4-3/4              | 120.7             | 225                             | 50                           | 11                        | 279.4                    | 100                  |

# Food Service Industry Hose

Notes

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