# Duct Hoses

## Overview

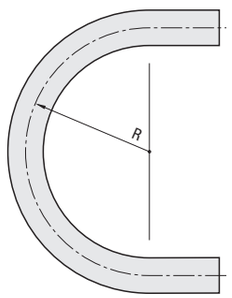
| | HOSEE/HOSEE□ | HOSKK | HOSSD/HOSSD□ | HOSHD/HOSHD□ |
|---|---|---|---|---|
| | **Lightweight Type** | **Swiveling** | **Flexible** | **Wear Resistant, Antistatic** |
| **Type** | P.1324 | P.1324 | P.1324 | P.1324 |
| |  |  |  |  |
| **Type** | Air supply and exhaust | Air supply and exhaust, spot cooler | Air supply and exhaust | Powder and Grains |
| **Fluid / Application** | · Supply and exhaust of air, wood dust, dust, etc. | ·For air (spot cooler / supply of air-conditioner) | · Supply and exhaust of warm air<br>· Air Conditioning, Ventilation<br>· Exhaust emission of equipments | · Carriage of particles, iron powder, paper trash, wood particles<br>· Heat-resistant Hot Air Heaters |
| **Material** | Flexible or Hard PVC | PP (Polypropylene) | PP (Polypropylene)<br>Reinforcement: Hard Steel Wire | PP (Polypropylene)<br>Reinforcement: Synthetic Rubber (EPDM) |
| Operating Temperature Range | -10~50°C | - | -20~80°C | -30~80°C |
| Allowable Pressure Range (Below ambient temperature) | 0~0.06MPa | 0~0.001MPa | 0~0.002MPa | 0~0.03MPa |
| Allowable Pressure Range (Above ambient temperature) | 0~0.03MPa | 0~0.0005MPa | 0~0.002MPa | 0~0.01MPa |
| **Features** | · Being excellent in flexibility and lightweight property, it improves operating efficiency.<br>· Easy to cut and mount. | · Capable of being bent or flexed as desired and keeping its bent state.<br>· Diameter can be varied by twisting the opening.<br>· Can be cut with a utility knife. | · Highly flexible and can be fixed at desired angles and positions.<br>· It can be shortened to 1/3 ~ 1/4 of the original length. | · Resistant to cold, heat and abrasion.<br>· Excellent antistatic effect.<br>· Reduces generation of ozone crack (deformity). |

| | HOSDY/HOSDY□ | HOSCD/HOSCD□ | HOSCE/HOSCER | HOAD |
|---|---|---|---|---|
| | **Oil-Resistant** | **Translucent** | **Antistatic Translucent** | **Aluminum** |
| **Type** | P.1325 | P.1325 | P.1325 | P.1326 |
| |  |  |  |  |
| **Type** | Suction and Exhaust | Air supply and exhaust | Air supply and exhaust | Air Conditioning, Ventilation |
| **Fluid / Application** | · Suction of exhaust emission of oil mist<br>· Collection of oil mist such as lathes and milling machines | · Air supply and exhaust for equipment<br>· Blast and exhaust emission of food processing evaporator systems<br>· Blast and exhaust emission in environments where dust must be avoided.<br>· Clean room air supply and exhausts | · Air supply and exhaust for equipment<br>· Blast and exhaust emission of food processing evaporator systems<br>· Blast and exhaust emission in environments where dust must be avoided.<br>· Clean room air supply and exhausts | · Exhaust Duct for Ventilation Fan |
| **Material** | Oil Resistance Hard, Flexible PVC | PP (Polypropylene)<br>Olefin Type Elastomer | PP (Polypropylene)<br>Olefin Type Elastomer | Aluminum Foil (Laminated)<br>Reinforcement: Hard Steel Wire |
| Operating Temperature Range | -10~50°C | -20~50°C | -20~50°C | -20~80°C |
| Allowable Pressure Range (Below ambient temperature) | 0~0.04MPa | 0~0.04MPa | 0~0.04MPa | 0~0.02MPa |
| Allowable Pressure Range (Above ambient temperature) | 0~0.02MPa | 0~0.02MPa | 0~0.02MPa | 0~0.02MPa |
| **Features** | · Excellent in oil resistance.<br>· Lightweight and Excellent in heat resistance.<br>· High efficiency due to low interior resistance contributes to energy savings. | · Being very excellent in lightweight property, flexibility and bend performance, it improves operating efficiency.<br>· The hose is translucent so transported materials can be observed. Compliant to Health, Labor and Welfare Ministry Notification No.201 Food Sanitation Laws. | · Not only it is semi-translucent, it features antistatic effect. Compliant to Health, Labor and Welfare Ministry Notification No.201 Food Sanitation Laws. | · Being superior in flexibility and bending property, it can be laid in a narrow space.<br>· It can be shortened to 1/5 of the original length. |

| | HOCTD | HOTD | HOTDS | HOTDH |
|---|---|---|---|---|
| | **Heat-Resistant Duct Hoses - Low Dust Generation** | **Heat-Resistant Duct Hoses - Heat Resistant Temperature 250°C** | **Heat-Resistant Duct Hoses - Heat Resistant Temperature 180°C** | **Heat-Resistant Duct Hoses - Heat Resistant Temperature 450°C** |
| **Type** | P.1326 | P.1326 | P.1326 | P.1326 |
| |  |  |  |  |
| **Type** | Air Conditioning, Ventilation | Air Conditioning, Ventilation | Air Conditioning, Ventilation | Air Conditioning, Ventilation |
| **Fluid / Application** | · For supply and exhaust in environments such as clean rooms where low dust generation is required. Supply and exhaust of hot air, air-conditioning and ventilation<br>· Intake and exhaust for warm air generators. | · Hot air generator / circulator unit, spark collection ducts for grinders and welders. | · Supply and exhaust of hot air, air-conditioning and ventilation | · Hot air, acid and alkali containing gases (ambient temperature) |
| **Material** | Aluminum Polyester Cloth<br>Reinforcement Spiral: Zinc Plating Steel Plate | Special Coating Glass<br>Reinforcement Spiral: EN 1.4301 Equiv. | Aluminum / Aluminum Glass Cloth<br>Reinforcement Spiral: EN 1.0330 Equiv. (Zinc Plating) | EN 1.4301 Equiv.<br>Reinforcement Spiral: EN 1.4301 Equiv. |
| Operating Temperature Range | -20~130°C | -20~250°C | -20~180°C | 30~450°C |
| Allowable Pressure Range (Below ambient temperature) | 0~0.007MPa | 0~0.007MPa | 0~0.007MPa | 0~0.007MPa |
| Allowable Pressure Range (Above ambient temperature) | 0~0.007MPa | 0~0.007MPa | 0~0.007MPa | 0~0.007MPa |
| **Features** | · Special laminated film is adopted to reduce generation of particle caused by friction on the surface.<br>· Flexible and easy to store and transport. | · Highly flexible.<br>· Highly elastic and flame resistant. | · Elastic, and can be fixed at any angle or in any direction. (Do not stretch/release the hose repeatedly.)<br>· Aluminum Glass Cloth Sheets are highly flame-resistant. | · Excellent in heat resistance.<br>· Corrosion resistant material that endures gases containing acid, alkali and solvents.<br>· Though designed for fixed plumbing, it can form curved portions. |

| | HOTDK | HOTDA |
|---|---|---|
| | **Heat-Resistant Duct Hoses - Heat Resistant Temperature 600°C** | **Heat-Resistant Duct Hoses - Heat Insulating Layer Coated** |
| **Type** | P.1326 | P.1326 |
| |  |  |
| **Type** | Air Conditioning, Ventilation | Air Conditioning, Ventilation |
| **Fluid / Application** | · Supply and exhaust of hot air, air-conditioning and ventilation | · Supply and exhaust of hot air, air-conditioning and ventilation |
| **Material** | EN 1.4301 Equiv.<br>Reinforcement Spiral: EN 1.4301 Equiv. | Aluminum<br>Heat Insulating Layer: Glass Fiber |
| Operating Temperature Range | -40~600°C | -30~200°C |
| Allowable Pressure Range (Below ambient temperature) | 0~0.027MPa | 0.006 ~ 0.009MPa (Depends on size.) |
| Allowable Pressure Range (Above ambient temperature) | 0~0.027MPa | 0.006 ~ 0.009MPa (Depends on size.) |
| **Features** | · Excellent in flame and heat resistance. | · Requires no additional heat insulation after installation. Saves construction time. |

Permissible bending radius is from the center of the hose.

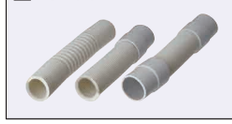



# Duct Hoses

## Lightweight / Flexible / Swiveling / Friction Resistant, Antistatic

### ■Lightweight

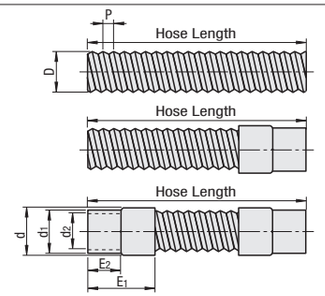
### ■Flexible



**HOSEE**
**HOSSD**
(Hose Body Only)

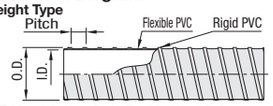
**HOSEEK**
**HOSSDK**
(One End Cuffed)

**HOSEER**
**HOSSDR**
(Both Ends Cuffed)



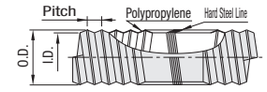

### ■Construction Diagram

· Lightweight Type




M Material Hose Body: Flexible / Hard PVC
Cuff: Flexible PVC

· Flexible




M Material Hose Body: Polypropylene, Hard Steel Wire
Cuff: EPDM (Light Gray)

| Part Number Type | Nominal | Hose Length 0.1m Increment | D | Hose I.D. (Reference) (mm) | P | d | d1 | d2 | E1 | E2 | Allowable Bending Radius (mm) | Reference Mass (kg/m) | Unit Price HOSEE Hose Unit Price/m | HOSEEK (+ Hose Unit Price) One End Cuffed | HOSEER (+ Hose Unit Price) Both Ends Cuffed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lightweight Type HOSEE (Hose Body) HOSEEK (One End Cuffed) HOSEER (Both Ends Cuffed) | 38 | 0.5~50.0 | 44.5 | 37.3 | 9.2 | 48 | 43 | 38 | 80 | 35 | 38 | 0.295 | | | |
| | 50 | 0.5~30.0 | 60.2 | 50.6 | 10 | 65.5 | 56.3 | 50.8 | 82 | 35 | 50 | 0.59 | | | |
| | 65 | | 72 | 62.4 | 12 | 78.5 | 69 | 63 | 86 | 33 | 65 | 0.655 | | | |
| | 75 | | 86.4 | 76.4 | 13 | 92.5 | 83.2 | 76.2 | 94 | 37 | 75 | 0.785 | | | |
| | 90 | | 99.5 | 88.9 | 13.5 | 106.5 | 96.9 | 89.2 | 99 | 40 | 90 | 0.95 | | | |
| | 100 | | 112.2 | 101.6 | 15 | 119.8 | 109.6 | 101.6 | 110 | 42 | 100 | 1.03 | | | |
| | 125 | 0.5~20.0 | 138.7 | 125.9 | 21 | 146.3 | 135 | 128 | 142 | 50 | 125 | 1.355 | | | |
| | 150 | | 164.8 | 152.4 | 20 | 173.3 | 160 | 152 | 160 | 70 | 150 | 1.68 | | | |

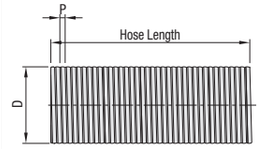
■**Features:** Being excellent in flexibility and lightweight, it improves operating efficiency. Easy to cut and mount.

| Part Number Type | Nominal | Hose Length 0.1m Increment | D | Hose I.D. (Reference) (mm) | P | d | d1 | d2 | E1 | E2 | Allowable Bending Radius (mm) | Reference Mass (kg/m) | Unit Price HOSSD Hose Unit Price/m | HOSSDK (+ Hose Unit Price) One End Cuffed | HOSSDR (+ Hose Unit Price) Both Ends Cuffed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flexible HOSSD (Hose Body) HOSSDK (One End Cuffed) HOSSDR (Both Ends Cuffed) | 38 | 0.5~5.0 * Length with hose extended. | 42.0 | 35.0 | 10.5 | 47.7 | 44.0 | 38.0 | 70 | 35 | 30 | 0.15 | | | |
| | 50 | | 58.0 | 50.0 | 12.3 | 64.0 | 56.8 | 50.8 | 70 | 35 | 40 | 0.2 | | | |
| | 65 | | 72.0 | 63.0 | 14.0 | 78.0 | 69.5 | 63.5 | 76 | 35 | 55 | 0.255 | | | |
| | 75 | | 81.0 | 71.0 | 15.7 | 88.0 | 82.5 | 76.5 | 85 | 40 | 60 | 0.28 | | | |
| | 90 | | 94.0 | 83.0 | 15.7 | 100.0 | 95.9 | 88.9 | 95 | 45 | 70 | 0.33 | | | |
| | 100 | | 108.0 | 97.0 | 17.0 | 115.5 | 108.6 | 101.6 | 95 | 45 | 80 | 0.4 | | | |
| | 125 | | 135.0 | 123.0 | 18.5 | 140.5 | 134.0 | 127.0 | 95 | 45 | 100 | 0.58 | | | |
| | 150 | | 158.0 | 145.0 | 22.5 | 166.0 | 160.4 | 152.4 | 113 | 50 | 120 | 0.725 | | | |

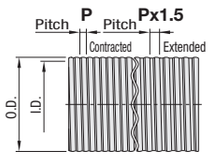
Hose length refers to the length when the hose is stretched without tensile load.

### ■Swiveling

**HOSKK**
(Hose Body Only)

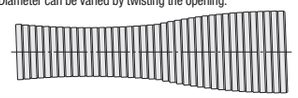



### ■Construction Diagram




### ■Features

Capable of being bent as desired and keeping its bent state.
Diameter can be varied by twisting the opening.



| Opening Variation | Contraction: 15% Expansion: 20% |
|---|---|
| Expansion / Contraction Rate | x1.5 |

M Material Hose Body: Polypropylene

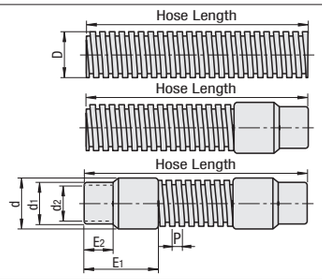
| Part Number Type | Nominal | Hose Length 0.1m Increment | D | Hose I.D. (Reference) (mm) | P (Contracted State) | Allowable Bending Radius (mm) | Reference Mass (kg/m) | Unit Price Hose Unit Price/m |
|---|---|---|---|---|---|---|---|---|
| HOSKK (Hose Body) | 75 | 0.5~10.0 | 82.4 | 75 | 7.5 | 175 | 0.675 | |
| | 90 | | 97.4 | 90 | 7.5 | 210 | 0.775 | |
| | 100 | | 107.4 | 100 | 7.5 | 230 | 0.845 | |

### ■Wear Resistant, Antistatic

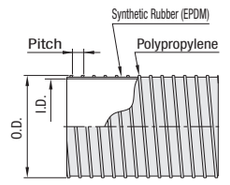
**HOSHD**
(Hose Body Only)

**HOSHDK**
(One End Cuffed)

**HOSHDR**
(Both Ends Cuffed)




### ■Construction Diagram




M Material Hose Body: Polypropylene, Conductive EPDM
Cuff: EPDM (Black)

| Part Number Type | Nominal | Hose Length 0.1m Increment | D | Hose I.D. (Reference) (mm) | P | d | d1 | d2 | E1 | E2 | Allowable Bending Radius (mm) | Reference Mass (kg/m) | Unit Price HOSHD Hose Unit Price/m | HOSHDK (+ Hose Unit Price) One End Cuffed | HOSHDR (+ Hose Unit Price) Both Ends Cuffed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOSHD (Hose Body) HOSHDK (One End Cuffed) HOSHDR (Both Ends Cuffed) | 38 | 0.5~30.0 | 46.8 | 38.0 | 9.5 | 52.0 | 43.0 | 38.0 | 75 | 30 | 45 | 0.34 | | | |
| | 50 | | 61.2 | 50.6 | 10.0 | 66.3 | 56.0 | 51.0 | 81 | 23 | 55 | 0.555 | | | |
| | 65 | | 73.0 | 62.4 | 12.0 | 78.1 | 69.0 | 63.0 | 87 | 31 | 65 | 0.61 | | | |
| | 75 | | 87.2 | 76.4 | 13.0 | 92.5 | 84.0 | 77.0 | 98 | 38 | 75 | 0.73 | | | |
| | 90 | | 100.3 | 88.9 | 13.5 | 105.8 | 97.0 | 89.0 | 107 | 46 | 90 | 0.9 | | | |
| | 100 | | 113.0 | 101.6 | 15.0 | 118.3 | 110.0 | 102.0 | 111 | 43 | 100 | 0.945 | | | |
| | 125 | 0.5~20.0 | 139.7 | 125.9 | 21.5 | 144.8 | 134.0 | 126.0 | 146 | 52 | 125 | 1.335 | | | |
| | 150 | | 166.2 | 152.4 | 20.0 | 172.3 | 161.0 | 153.0 | 162 | 78 | 150 | 1.58 | | | |

■**Features:** Resistant to cold, heat and abrasion. Excellent antistatic effect. (Volume Resistivity/$10^5\Omega$ · cm or less)

Ordering Example: Part Number **HOSSDR50** - Hose Length **3.2**

| Allowable Decompression (kPa{mmHg}) | -13.0 ~ -40.0 {-98 ~ -300} (Ambient Temperature) |
|---|---|

* The allowable reduction pressure is the maximum negative pressure that can be applied to the hose under ambient temperature. Above range is for Hose Body only. Use data as reference.