

Food Grade Hose

If the plasticizer soaks into the fluid or the resin odor badly affects the fluid, KY COIL HOSE is a suitable hose.

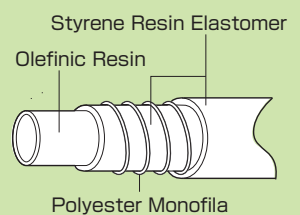
KY COIL HOSE

[Model Number: E-KYC-(I.D.)]

Applications • Fluids

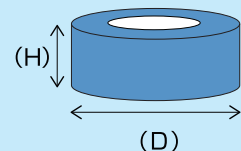


(Materials / Structure)



- For Transferring Food, Beverage, Liquor, and Brewing
- For Transferring Alcohol, Cosmetics, and Fragrance
- For Transferring High Purity Chemicals such as Fine Chemical
- For Chemical Piping such as Acid and Alkali
- As a Protection of the Fluid which is affected by PVC Plasticizer

(Packing Dimension)



Standard • Packing Information

| Model Number | Inch (Inside Diameter) (*1) | I.D. × O.D. mm | Working Pressure MPa | | Minimum Bend Radius at 20°C mm | Temperature Range °C | Standard Length m | Product Weight kg/roll | Color | Packing Dimension | | | |
|--------------|-----------------------------|-------------------|-------------------------|--------------|--------------------------------------|-------------------------|----------------------|---------------------------|---------|-------------------|--------------------|------------------|------------------------|
| | | | at 20°C | at 70°C | | | | | | Packing | Diameter (D) cm | Height (H) cm | Weight/roll kg/roll |
| | | | | | | | | | | | | | |
| E-KYC-12 | 1/2 | 12 × 18 | - 0.1 ~ 0.5 | - 0.1 ~ 0.25 | 50 | 0 ~ 70 | 50 | 7.01 | Natural | Film Wrapping | 46 | 17 | 7.01 |
| E-KYC-15 | 5/8 | 15 × 22 | | | 60 | | | | | | 57 | 20 | 10.22 |
| E-KYC-19 | 3/4 | 19 × 26 | - 0.1 ~ 0.4 | - 0.1 ~ 0.2 | 85 | | | 12.95 | | | | 63 | 22 |

*1: Please note that inch size is approximate, which is not equal to millunit.

Characteristics and Functions

Food-Sanitation

Non-PVC

Chemical Resistance

Vacuum

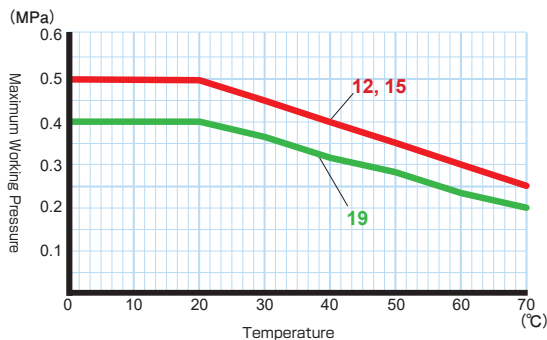
Low Elution

Hard to Break

- Vacuum**...E-KYC stands proof against negative pressure (can be used in vacuum condition).
- Stability**...Resin Coil makes it very difficult to be crushed or kinked, leading to high stability in its shape.
- Non-PVC**...E-KYC is an eco-friendly hose, which uses Olefin Resin and Styrene Resin Elastomer.
- Environment-Friendly**...E-KYC restrains the production of harmful gas, even though it is burned out.
- Plasticizer-Free**...E-KYC does not contain plasticizer (an elution material) at all. E-KYC is an oil-free hose.
- Low Elution · Low Odor**...Compared with PVC hose, elution levels are low. It is suitable for transferring food, beverage, and cosmetics.
- Chemical Resistance**...Since the inner layer is made of Olefin Resin, E-KYC shows great chemical resistance.
- Easy to Cut**...Since we print the cut mark on the hose every meter, it is easy to cut the length you would like to.
- Transparency**...E-KYC (natural color) enables you to check the fluid very easily.
- Green Procurement**...E-KYC is compliant with RoHS2 requirements.
- Original Fittings**...By using our original fittings, you can avoid accidents which are caused by incorrect choices of hose and fittings.
- Food Sanitation Law Certified**...E-KYC conforms to the Food Sanitation Standard No.370 (The Ministry of Health and Welfare for Food Sanitation, No.370, 1959). (Conformity to N-Heptane).

Technical Information

E-KYC: Relationship between Working Temperature and Maximum Working Pressure



(Hose Cleaning-Up)

If you wash the hose in hot water, hot water must be lower than 80 degrees Celsius, less than 30 minutes, and less than 0.1MPa (1kgf/cm²) (One-Side Free Condition).

(Combustion Gas Data on Raw Materials of KY COIL HOSE)

| Item | Production Amount | Determination Limit (mg/g) |
|-----------------------|---------------------------|----------------------------|
| Nitrogen Compound | Below the Detection Limit | 1 |
| Sulfur Oxide Compound | Below the Detection Limit | 3 |
| Hydrogen Chloride | Below the Detection Limit | 0.1 |
| Hydrogen Cyanide | Below the Detection Limit | 0.005 |

Test Method : JIS K7217

(Leach Test Data)

Test Method: JIS S 3200-7:2004 (Equipment for Water Supply Service)

| Items | KY COIL HOSE | PVC HOSE | POLYETHYLENE TUBE | Determination Limit |
|----------------------|--------------|--------------|-------------------|---------------------|
| Non-ionic Surfactant | No Detection | No Detection | No Detection | 0.005mg/L |
| Phenol | No Detection | 26mg/L | 0.014mg/L | 0.0005mg/L |
| Total Organic Carbon | No Detection | 30mg/L | No Detection | 0.3mg/L |

E-KYC is applicable to the levels of leaching about water supply determined by the Ministry of Health, Labour, and Welfare.*

Depending on the materials of the hose, plasticizer and stabilizer may elute. Data on the above show the levels of low elution of E-KYC.

* A legislation which revises the parts of the regulation: "Structure and Material of Water Supply Device." (Regulation No.6 by the Ministry of Health, Labour, and Welfare in 2004).

* A legislation which revises the parts of the regulation: "Structure and Material of Water Supply Device." (Regulation No.15 by the Ministry of Health, Labour, and Welfare in 2004).

HAKKO Original Fittings

| Model | Features |
|---------------------------|---|
| EIGHTLOCK FERRULE (E-ELF) | <ul style="list-style-type: none"> • Material : Body, SCS16, Nut and Ring: SCS13 (Sleeve: POM) • You can replace a hose even though the hose needs replacement, since EIGHTLOCK Ferrule Fitting is a nut ferrule fitting. You can install and detach the fitting on site. • You can make use of a wide range of usages such as pipes for chemicals, food, beverage, and alcohol. • The nipple end is less likely to accumulate fluids, so you do not have to worry about contamination very much. |
| EIGHTLOCK S (E-ELS) | <ul style="list-style-type: none"> • Material : SUS304 • Our Nut Type Original Fittings • Since the inner layer of the fitting is flat and does not use the rubber packing, fluid accumulation is unlikely to occur. Thus, it is easy to wash out. • Since you do not need hose clamp and the controlling torque value, you can standardize how to install the fitting. |
| EIGHTLOCK B (E-ELB) | <ul style="list-style-type: none"> • Material : BSBM(Brass Cadmium Less than 75ppm) • Our Nut Type Original Fittings • Since the inner layer of the fitting is flat and does not use the rubber packing, fluid accumulation is unlikely to occur. Thus, it is easy to wash out. • Since you do not need hose clamp and the controlling torque value, you can standardize how to install the fitting. |

| Model | Features |
|----------------------------------|---|
| EIGHTNIPPLE S (E-FTS) | <ul style="list-style-type: none"> • Material : SUS316L • SUS 316L is superior in corrosion resistance, so you can transfer a wide range of fluids. • Two-stage flat nipple structure which maximizes hose pressure • Our Original Barb Nipple Fittings |
| EIGHTNIPPLE B (E-FTB) | <ul style="list-style-type: none"> • Material : BSBM (Brass Cadmium Less than 75ppm) • Compliant with RoHS2 requirement • Two-stage flat nipple structure which maximizes hose pressure • Our Original Barb Nipple Fittings |
| Protective Spring Guards (E-HSL) | <ul style="list-style-type: none"> • Material : SUS304 (Band, Spring, Fastener) • Spring guards prevent kinking, so you can transfer fluids safely. • Prevent kinking even if the bending radius is small due to the space-saving piping. • As a protection accessory for cleaning hose if its hose is easy to break at hand. |

* Please fasten EIGHTNIPPLE by two flat bands.

* EIGHTLOCK B is made of copper alloy. Thus, in case, Olefin line resin (PP/PE) or Chlorine flows through the fittings at a high temperature, Olefin line resin might degrade. When KY COIL HOSE are used, take note of temperature and the chlorine density and inspect hose conditions before operation. Also, please inspect the hoses regularly.

* Please do not contact E-KYC with PVC products. The plasticizer of PVC might transfer to the E-KYC.

- ⚠ *Due to the laminated structure hose, please use the joints to seal an inner surface of the hose.
- *Please do not use the joints to seal an outer surface of the hose. This may result in the bursting or coming off from the hose.
- *When you use our products, please refer to "Precautions for Use" available on our webpage and product catalog.
- *In terms of chemical resistance, please refer to "Chemical Resistance Data" available on our webpage and product catalog.
- *Although the inner layer is resistance to fluids, but depending on working environments, the fluids would be permeated through the inner layer, resulting in the danger of swelling and degradation of the middle or outer layer.

Contact us if you have any inquiries about HAKKO products.

HAKKO

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URL: <https://eightron.co.jp/English>