

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.

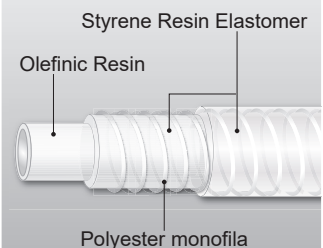
KY COIL HOSE

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

Applications • Fluids

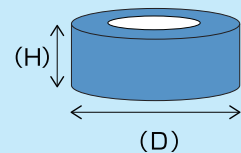


[Materials / Structure]



- 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℃ mm	Temperature Range ℃	Standard Length m	Product Weight kg/roll	Color	Packing Dimension			
			at 20℃	at 70℃						Packing	Diameter (D)	Height (H)	Weight/roll
		cm			cm	kg/roll							
E-KYC-12	1/2	12 × 18	- 0.1 ~ 0.5	- 0.1 ~ 0.25	50			7.01			46	17	7.01
E-KYC-15	5/8	15 × 22			60	0 ~ 70	50	10.22	Natural	Film Wrapping	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

Non-PVC

Vacuum

Chemical Resistance

Low Elution

Low Odor

Food-Sanitation

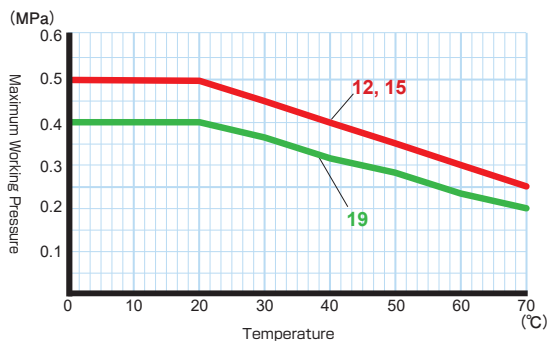
Hard to Break

Alcohol Resistant

- **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 (directive 2011/65/EU:RoHS2). (RoHS 2 free products mean that they do not contain or below the threshold of 10 substances.)
- **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). Please contact us regarding the conformity of "Partial Revision of the Food Sanitation Law" (Effective on June 1, 2020) and Positive List System (PL).

Technical Information

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



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

Item	Production Amount	Determination Limit (mg/g)
Nitrogen Compound	Below the Detection Limit	1
Surfur Ozide 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 TUBE	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

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.

※ The results above are measured values and are NOT guaranteed.

(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).

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 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 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.

*For EIGHTNIPPLE, Please fasten with two clamps.

※ 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.

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- *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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HAKKO CORPORATION

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