

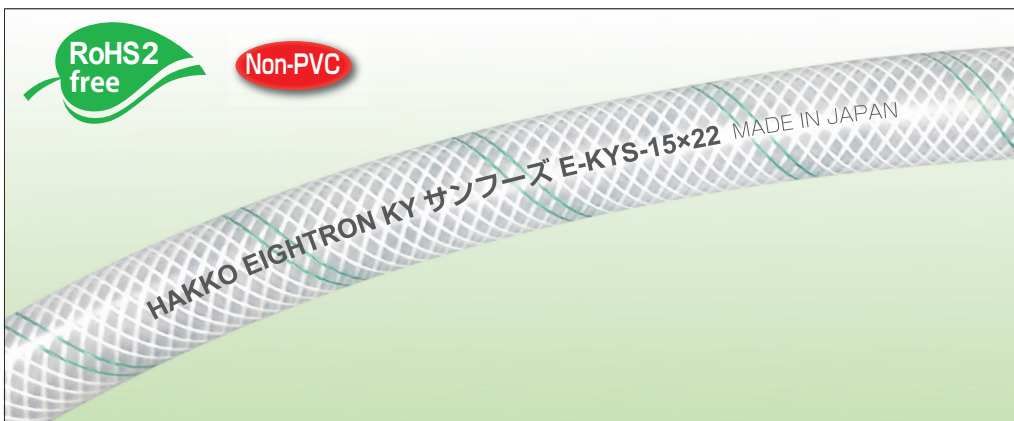
Food Grade Hose

If the plasticizer soaks into the fluid or the resin odor badly affects the fluid, KY SUNFOODS HOSE is a suitable option for you.

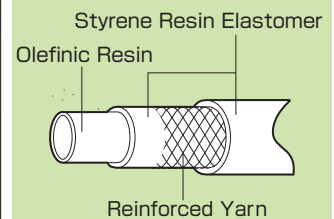
KY SUNFOODS HOSE

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

Applications • Fluids

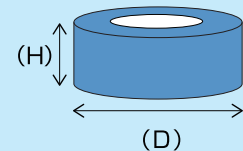


(Materials / Structure)



- 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 65°C						Packing	Diameter (D) cm	Height (H) cm	Weight/roll kg/roll
E-KYS-6	1/4	6 × 11			45						51	12	6.12
E-KYS-8	5/16	8 × 13.5			60		100	8.52			51	19	8.52
E-KYS-9	3/8	9 × 15			65			10.37			54	19	10.37
E-KYS-10	13/32	10 × 16	0 ~ 0.8	0 ~ 0.4	70			11.23			55	19	11.23
E-KYS-12	1/2	12 × 18			85			12.96			62	19	12.96
E-KYS-15	5/8	15 × 22			105	0 ~ 65		9.33	Natural	Film Wrapping	57	20	9.33
E-KYS-19	3/4	19 × 26			135			11.34			62	22	11.34
E-KYS-25	1	25 × 33	0 ~ 0.5	0 ~ 0.3	175		50	16.71			88	26	16.71
E-KYS-32	1 1/4	32 × 41	0 ~ 0.4		225			23.78			96	32	23.78
E-KYS-38	1 1/2	38 × 48		0 ~ 0.2	265			30.14			101	37	30.14
E-KYS-50	2	50 × 62	0 ~ 0.3		400			46.57			148	33	46.57

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

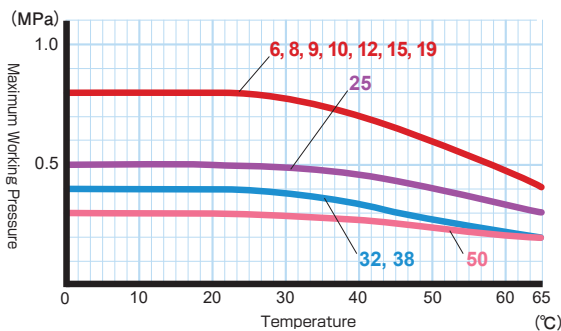
Characteristics and Functions

- Food-Sanitation
- Pressure-Proof
- Non-PVC
- Chemical Resistance
- Low Odor
- Low Elution

- **Non-PVC**...E-KYS is made of a non-PVC material. E-KYS is an eco-friendly hose, which restrains the production of harmful gas, even though it is burned out.
- **Plasticizer-Free**...E-KYS does not contain plasticizer (an elution material) at all. E-KYS is an oil-free hose.
- **Low Odor**...E-KYS is suitable for odor-sensitive beverage and cosmetics.
- **Chemical Resistance**...Since the inner layer is made of Olefin Resin, E-KYS 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-KYS (natural color) enables you to check the fluid very easily.
- **Green Procurement**...E-KYS 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**...E-KYS conforms to the Food Sanitation Law No. 370 (No. 370 of the Ministry of Health and Welfare for Food Sanitation). (Conformity to N-Heptane)
- **Hose Cap**...By sealing the hose end by hose cap, the inclusion of foreign matter is prevented. (Only Packed in the Standard Length)

Technical Information

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



※ The above graph is the value when our original E-FTS fittings are used.

(Combustion Gas Data on Raw Materials of KY SUN FOODS 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 SUNFOODS 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-KYS 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-KYS.

※ 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.

- ※ Be careful that working pressure and temperature range of KY SUNFOODS HOSE equipped with EIGHTLOCK are not the same as those of KY SUNFOODS HOSE without EIGHTLOCK.
- ※ 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 SUNFOODS hoses 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-KYS with PVC products. The plasticizer of PVC might transfer to the E-KYS.

- ⚠ *Due to the yarn-reinforced 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 CORPORATION

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