

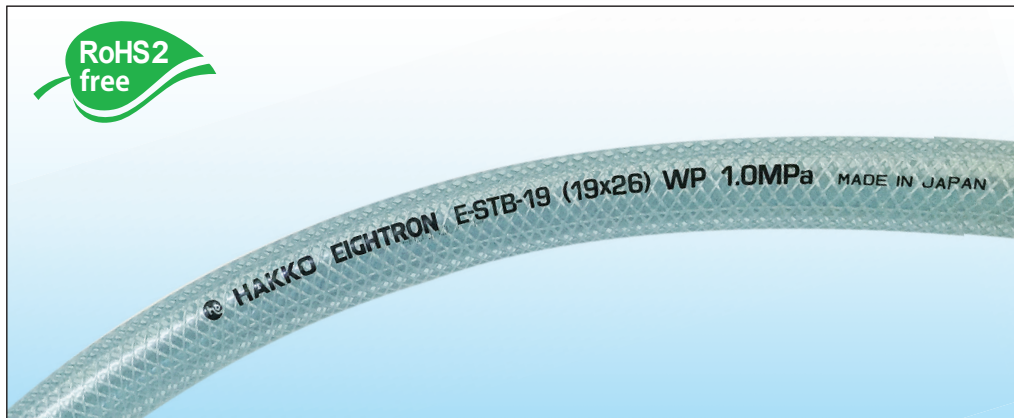
Industrial Hose

Oil-proof, MADE IN JAPAN hose, which is superior in flexibility and cost-saving.

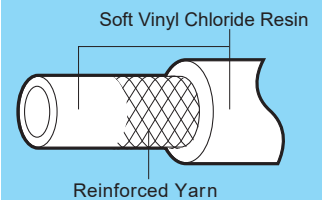
# Oil-Proof PRESSURE HOSE

(Model Number : E-STB-(I.D.))

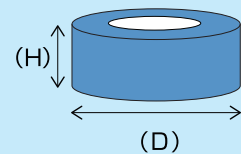
## Applications • Fluids



## (Materials / Structure)



## (Packing Dimension)



- For Transferring Air, Water, Lubricant Oil, Insulating Oil, Coolant oil, and Chemicals at Machine Tools, Molding Machines, and Industrial Equipment
- For Transferring Fluids by Pump and Compressor
- For Temporary Pipes at Engineering Works and Construction Sites
- For Protection of Thin Rods such as Pipes

## 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 60°C						Packing	Diameter (D) cm	Height (H) cm	Weight/roll kg/roll
E-STB-6	1/4	6 × 11			40		100	8.55			51	12	8.55
E-STB-8	5/16	8 × 13.5			55		100	11.89			51	19	11.89
E-STB-9	3/8	9 × 15		0 ~ 0.7	65		100	14.48			54	19	14.48
E-STB-12	1/2	12 × 18	0 ~ 1.0		85		100	18.11	Clear Green	Film Wrapping	62	19	18.11
E-STB-15	5/8	15 × 22		105	50	13.03	54	19			13.03		
E-STB-19	3/4	19 × 26			135	0 ~ 60	50	15.84			62	22	15.84
E-STB-21.5	27/32	21.5 × 29		0 ~ 0.6	155		50	19.05			65	20	19.05
E-STB-25	1	25 × 33			175		50	23.34			82	22	23.34
E-STB-32	1 1/4	32 × 41	0 ~ 0.5	0 ~ 0.35	225		40	26.43			95	28	26.43
E-STB-38	1 1/2	38 × 48			265	40	34.60	98	32	34.60			
E-STB-50	2	50 × 62	0 ~ 0.3	0 ~ 0.2	350		40	54.07			127	31	54.07

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

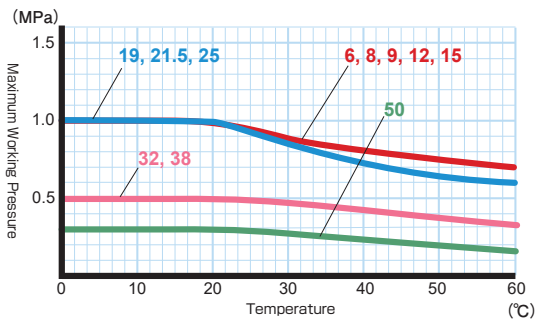
## Characteristics and Functions

- Oil-Proof
- Transparency
- Pressure-Proof
- Flexibility

- Long Duration**...Due to the PVC with oil-proof plasticizer, hose does not become hardened even though oil and hot water are transferred.
- Lightweight**...E-STB is very lightweight and flexible, compared with rubber hose.
- Pressure-Proof**...I.D. Size ( $\phi$  6.0 ~  $\phi$  25mm) can stand up to 1.0 MPa (at 20°C) working pressure.
- 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-STB (clear green color) enables you to check the fluid very easily.
- Green Procurement**...E-STB 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.

## Technical Information

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



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

### (E-STB: Data on Oil-Proofness)

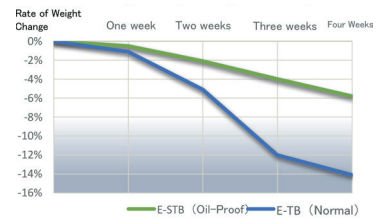
[Oil-Proof Comparative Data between E-TB (Normal Soft PVC Hose) and E-STB (Oil-Proof PVC Hose)]

- Test Method** : Fill the insulating oil (mineral oil) into the hose and measure the weight change at the room temperature of 60°C .
- Test Result** : After four weeks, E-STB loses weight by 6%, while E-TB loses weight by 14%.
- Insights** : Since the plasticizer soaks into the insulating oil, E-TB becomes harder than E-STB.

Oil-Proof Comparative Test



Insulating Oil : Weight Change after soaking into the Oil



## HAKKO Original Fittings

Model	Features
<b>EIGHTLOCK FERRULE (E-ELF)</b>	<ul style="list-style-type: none"> <li>Material : Body, SCS16, Nut and Ring; SCS13 (Sleeve; POM)</li> <li>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.</li> <li>You can make use of a wide range of usages such as pipes for chemicals, food, beverage, and alcohol.</li> <li>The nipple end is less likely to accumulate fluids, so you do not have to worry about contamination very much.</li> </ul>
<b>EIGHTLOCK S (E-ELS)</b>	<ul style="list-style-type: none"> <li>Material : SUS304</li> <li>Our Nut Type Original Fittings</li> <li>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.</li> <li>Since you do not need hose clamp and the controlling torque value, you can standardize how to install the fitting.</li> </ul>
<b>EIGHTLOCK B (E-ELB)</b>	<ul style="list-style-type: none"> <li>Material : BSBM (Brass Cadmium Less than 75ppm)</li> <li>Our Nut Type Original Fittings</li> <li>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.</li> <li>Since you do not need hose clamp and the controlling torque value, you can standardize how to install the fitting.</li> </ul>

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

\*For EIGHTNIPPLE, please fasten with two clamps.

- !** \*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.
- \*Compared with a normal PVC hose, E-STB is superior in oil-resistance. However, depending on the use time and temperature, hose might harden.
- \*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.

Contact us if you have any inquiries about HAKKO products.

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