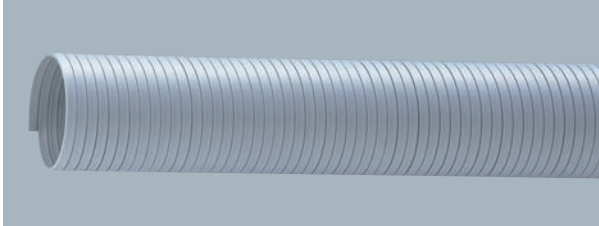


Spot Air Conditioner · Blow & Exhaust

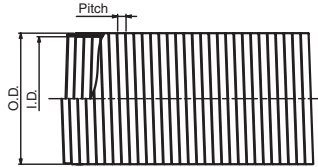


TOTAKU RIGID DUCT-PP

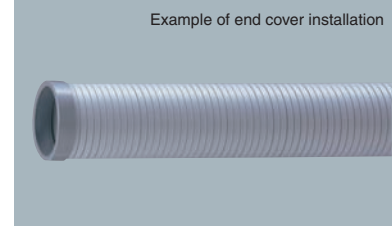
Item No.21184- □



RoHS Compliant



At the case of a shrinkage. At the case of extension.



Features

- It can be 10-20% lighter than the former model (made of PVC)
- Can be bent freely, and be installed while keeping the bent angle (Please use this in indoor environments.)
- By twisting the duct end, the diameter can be varied
- Easy to cut with knife
- By screwing into each end of the connecting ducts, they can be easily combined (After connecting them, please wind the joint parts with a vinyl tape, etc.)

Applications

- For spot coolers
- For ducting and blower of air-conditioners
- For dust collecting of woodwork machine and metal-grinding machine, etc
- For construction site, piping and wiring of electricity, and agriculture, etc

STANDARD DIMENSIONS & PROPERTIES

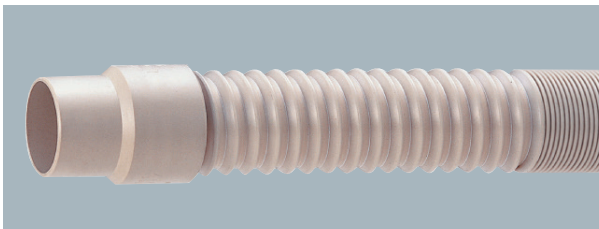
| Nominal diameter | I.D. mm | O.D. mm | Pitch mm | Weight (reference) g/m | L/coil m×pcs. | The caliber rate of change (%) | | Compared with elasticity | Allowable bending radius mm | Practicable upper limit temperature °C |
|------------------|------------|------------|-------------|------------------------------|------------------|--------------------------------|-----------|--------------------------|--------------------------------|---|
| | | | | | | Expansion | Reduction | | | |
| 55{2} | 55.0 | 60.8 | 7.0 | 450 | 10×3 | 20 | 15 | 1.5 | 140 | 80 |
| 65{2½} | 65.0 | 70.8 | 7.0 | 510 | 10×3 | 20 | 15 | 1.5 | 155 | 80 |
| 75{3} | 75.0 | 82.4 | 7.5 | 675 | 10×3 | 20 | 15 | 1.5 | 175 | 80 |
| 90{3½} | 90.0 | 97.4 | 7.5 | 775 | 10×3 | 20 | 15 | 1.5 | 210 | 80 |
| 100{4} | 100.0 | 107.4 | 7.5 | 845 | 10×2 | 20 | 15 | 1.5 | 230 | 80 |
| 125{5} | 125.0 | 132.8 | 7.5 | 1175 | 10×2 | 20 | 15 | 1.5 | 300 | 75 |
| 150{6} | 150.0 | 157.8 | 7.5 | 1380 | 10×2 | 20 | 15 | 1.5 | 350 | 75 |
| 175{7} | 175.0 | 182.8 | 7.5 | 1785 | 10×1 | 20 | 15 | 1.5 | 400 | 75 |
| 200{8} | 200.0 | 208.0 | 7.5 | 1855 | 10×1 | 20 | 15 | 1.5 | 450 | 75 |
| 250{10} | 250.0 | 259.6 | 10.5 | 3195 | 4×1 | 15 | 15 | 1.5 | 960 | 70 |
| 300{12} | 300.0 | 309.6 | 10.5 | 3990 | 4×1 | 15 | 15 | 1.5 | 1000 | 70 |

End cover

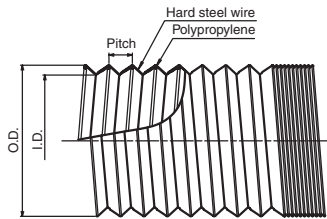
※There are all sizes of made soft-PVC.

TOTAKU ELASTIC DUCT

Item No.15112- □



RoHS Compliant



STANDARD DIMENSIONS & PROPERTIES

| Nominal diameter | I.D. (reference) mm | O.D. mm | Pitch mm | Weight (reference) g/m | L/coil m | Durability of Stretching | Durability of Bending | Allowable bending radius mm | Practicable upper limit temperature °C |
|------------------|---------------------------|------------|-------------|------------------------------|-------------|--|---|--------------------------------|---|
| 38 | 35 | 42.0 | 10.5 | 150 | 5 | More than one hundred thousand times (0°C, 25°C) | More than one hundred thousand times (Bending angle 90° on the level) (0°C, 25°C) | 30 | 80 |
| 50 | 50 | 58.0 | 12.3 | 200 | 5 | | | 40 | 80 |
| 65 | 63 | 72.0 | 14.0 | 255 | 5 | | | 55 | 80 |
| 75 | 71 | 81.0 | 15.7 | 280 | 5 | | | 60 | 80 |
| 90 | 83 | 94.0 | 15.7 | 330 | 5 | | | 70 | 80 |
| 100 | 97 | 108.0 | 17.0 | 400 | 5 | | | 80 | 80 |
| 125 | 123 | 135.0 | 18.5 | 580 | 5 | | | 100 | 80 |
| 150 | 145 | 158.0 | 22.5 | 725 | 5 | | | 120 | 80 |
| 200 | 196 | 209.5 | 24.5 | 860 | 5 | | | 160 | 80 |
| 300 | 294 | 309.5 | 27.0 | 1560 | 5 | | | 240 | 80 |

※The inside diameter is a reference value. When using an insertion-type coupling and part, please check it with the actual article.

※In case of ordering at standard length, the duct has original cuffs at both ends.

Heart Resistance Duct

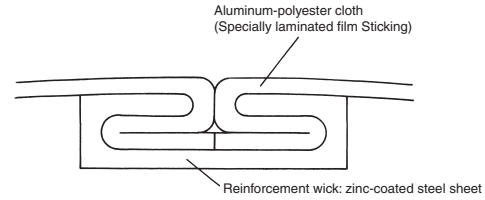


TOTAKU IT-13



RoHS Compliant

Item No.21180-



Features

- Made of aluminum-polyester cloth and zinc-coated steel sheet, and is usable at the temperature of 130°C or less.
- Specially laminated film is used, which reduces dusts being generated by surface friction.
- Retractable, and easy storage and transportation.

Applications

- For blowing and exhausting use, where smaller amount of dusts raising is required such as the clean-room.
- For air-intake and exhaust of hot air generator.

※ Very little dust-raising material is used for this duct. However, your specific check on dust-raising is required before actual use since an amount of dusts is variable depending on use conditions (such as fluid substance, temperature and pressure).

STANDARD DIMENSIONS & PROPERTIES

| Nominal diameter | I.D. | O.D. | Pitch | Weight (reference) | L/coil | Allowable pressure (at room temperature) | Allowable decompression power (at room temperature) | Allowable bending radius |
|------------------|-------|-------|-------|--------------------|--------|--|---|--------------------------|
| | mm | mm | | | | | | |
| 50 | 51.0 | 54.5 | 20.0 | 370 | 5 | 0.007 {0.07} | -8.5 {-64} | 120 |
| 75 | 76.0 | 80.0 | 20.0 | 530 | 5 | 0.007 {0.07} | -7.0 {-53} | 160 |
| 100 | 102.5 | 106.0 | 23.0 | 640 | 5 | 0.007 {0.07} | -6.5 {-49} | 210 |
| 125 | 127.5 | 131.0 | 23.0 | 770 | 5 | 0.007 {0.07} | -6.5 {-49} | 250 |
| 150 | 152.0 | 155.0 | 23.0 | 945 | 5 | 0.007 {0.07} | -6.0 {-45} | 300 |
| 175 | 176.5 | 180.0 | 23.0 | 1070 | 5 | 0.007 {0.07} | -5.0 {-38} | 300 |
| 200 | 202.0 | 205.0 | 23.0 | 1250 | 5 | 0.007 {0.07} | -4.5 {-34} | 400 |
| 250 | 253.0 | 256.0 | 23.0 | 1580 | 5 | 0.007 {0.07} | -3.0 {-23} | 600 |
| 300 | 303.0 | 306.0 | 23.0 | 1875 | 5 | 0.007 {0.07} | -3.0 {-23} | 600 |

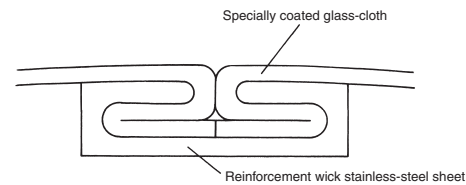
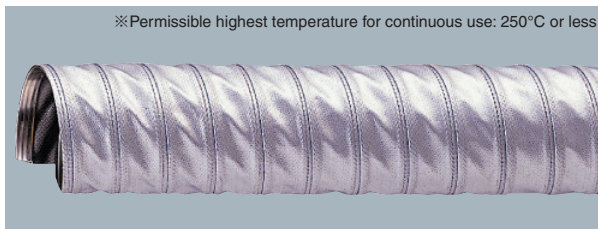
TOTAKU MD-25

(Free Installation)



RoHS Compliant

Item No.21115-



Features

- With specially coated glass-cloth and stainless-steel sheets (SUS304) as a reinforcing core, this can be used at 250°C or less.
- Stretchable and easy for placing, storing and transporting
- Specially coated glass-cloth is good for flame-retarding. (Acceptable product for flame prevention, first class)

Applications

- For suction ducts of equipment for producing and circulating hot wind, sparks of electric/gas welding and sparks of grinders, etc

STANDARD DIMENSIONS & PROPERTIES

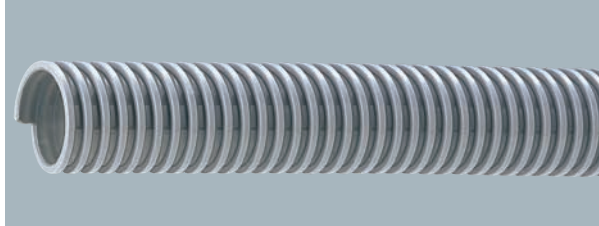
| Nominal diameter | I.D. | O.D. | Pitch | Weight (reference) | L/coil | Allowable pressure (at room temperature) | Allowable decompression power (at room temperature) | Allowable bending radius |
|------------------|-------|-------|-------|--------------------|--------|--|---|--------------------------|
| | mm | mm | | | | | | |
| 50{2} | 51.0 | 54.5 | 20.0 | 360 | 5 | 0.007 {0.07} | -8.5 {-64} | 110 |
| 65{2½} | 67.0 | 71.5 | 20.0 | 480 | 5 | 0.007 {0.07} | -8.0 {-60} | 140 |
| 75{3} | 76.0 | 80.0 | 20.0 | 525 | 5 | 0.007 {0.07} | -7.0 {-53} | 160 |
| 90{3½} | 91.0 | 94.5 | 23.0 | 545 | 5 | 0.007 {0.07} | -6.5 {-49} | 190 |
| 100{4} | 102.5 | 106.0 | 23.0 | 635 | 5 | 0.007 {0.07} | -6.5 {-49} | 210 |
| 125{5} | 127.5 | 131.0 | 23.0 | 770 | 5 | 0.007 {0.07} | -6.0 {-45} | 250 |
| 150{6} | 152.5 | 155.5 | 23.0 | 910 | 5 | 0.007 {0.07} | -4.0 {-30} | 280 |
| 175{7} | 176.5 | 180.0 | 23.0 | 1165 | 5 | 0.007 {0.07} | -4.0 {-30} | 340 |
| 200{8} | 202.0 | 205.0 | 23.0 | 1235 | 5 | 0.007 {0.07} | -3.0 {-23} | 380 |
| 250{10} | 253.0 | 256.0 | 23.0 | 1570 | 5 | 0.007 {0.07} | -3.0 {-23} | 510 |
| 300{12} | 303.5 | 306.5 | 23.0 | 1900 | 5 | 0.007 {0.07} | -3.0 {-23} | 610 |

Blow & Exhaust · Oil Mist

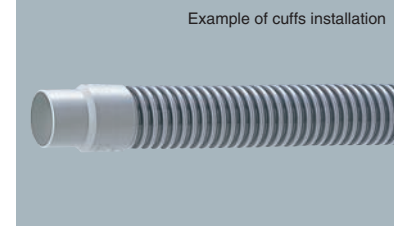
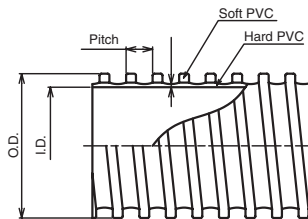


TOTAKU DUCT-EE

Item No.21107-



RoHS Compliant



Features

- Lightness and Flexibility enable labor-saving.
- Easy to cut and install, easy connection

Applications

- For indoor ducting and blowers.
- For ducting and blowers for factory equipment.
- Additionally, for dust collection and air supplying exhaust.

Steel pipe and VP pipe connection measurement table.

Mounting method

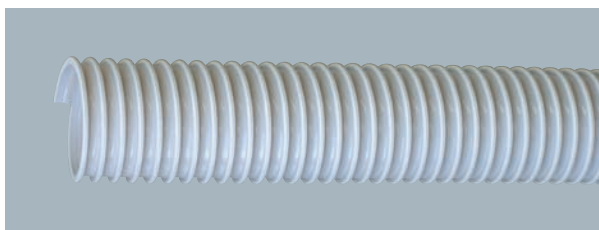
When mounting, please either put it in directly or tighten it with an ABA band or a spiral wire band using exclusive cuffs made of polyvinyl chloride.

STANDARD DIMENSIONS & PROPERTIES

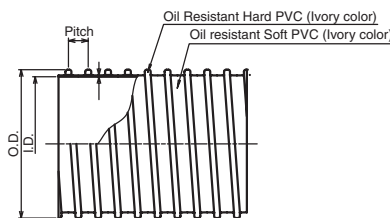
| Nominal diameter | I.D. mm | O.D. mm | Pitch mm | Weight (reference) g/m | L/coil m | Allowable pressure (at room temperature) MPa {kgf/cm ² } | Allowable decompression power (at room temperature) kPa {mmHg} | Allowable bending radius mm |
|------------------|------------|------------|-------------|------------------------------|-------------|---|--|-----------------------------------|
| 32{1¼} | 32.4 | 38.6 | 8.4 | 218 | 50 | 0.06 {0.6} | -66.0 {-495} | 32 |
| 38{1½} | 37.3 | 44.5 | 9.2 | 295 | 50 | 0.06 {0.6} | -66.0 {-495} | 38 |
| 50{2} | 50.6 | 60.2 | 10.0 | 590 | 30 | 0.05 {0.5} | -66.0 {-495} | 50 |
| 65{2½} | 62.4 | 72.0 | 12.0 | 655 | 30 | 0.04 {0.4} | -66.0 {-495} | 65 |
| 75{3} | 76.4 | 86.4 | 13.0 | 785 | 30 | 0.04 {0.4} | -33.0 {-248} | 75 |
| 90{3½} | 88.9 | 99.5 | 13.5 | 950 | 30 | 0.03 {0.3} | -33.0 {-248} | 90 |
| 100{4} | 101.6 | 112.2 | 15.0 | 1030 | 30 | 0.03 {0.3} | -21.5 {-161} | 100 |
| 115{4½} | 114.3 | 125.9 | 17.4 | 1260 | 20 | 0.03 {0.3} | -20.0 {-150} | 110 |
| 125{5} | 125.9 | 138.7 | 21.0 | 1355 | 20 | 0.02 {0.2} | -20.0 {-150} | 125 |
| 150{6} | 152.4 | 164.8 | 20.0 | 1680 | 20 | 0.02 {0.2} | -14.5 {-109} | 150 |
| 165{6½} | 165.0 | 177.8 | 22.0 | 1780 | 20 | 0.02 {0.2} | -10.0 {-75} | 150 |
| 175{7} | 177.8 | 190.6 | 20.0 | 1945 | 20 | 0.02 {0.2} | -10.0 {-75} | 175 |
| 200{8} | 203.7 | 217.1 | 22.5 | 2205 | 20 | 0.01 {0.1} | -6.0 {-45} | 200 |
| 225{9} | 227.0 | 240.4 | 23.5 | 2470 | 10 | 0.01 {0.1} | -5.5 {-41} | 225 |
| 250{10} | 252.0 | 266.2 | 25.0 | 3000 | 10 | 0.01 {0.1} | -4.5 {-34} | 250 |
| 275{11} | 278.0 | 292.6 | 28.0 | 3300 | 10 | 0.01 {0.1} | -4.0 {-30} | 275 |
| 300{12} | 303.0 | 318.0 | 30.0 | 3650 | 10 | 0.01 {0.1} | -3.0 {-23} | 300 |

TOTAKU DUCT-OR

Item No.21181-



RoHS Compliant



Features

- Excellent oil resistance.
- Ivory color harmonizes with the equipment.
- Lightweight and superior flexibility.
- Small internal resistance helps working efficiency and energy saving.

Applications

- Air intake and exhaust of oil mist
- Collection of oil mist of a lathe, a milling machine and etc.

STANDARD DIMENSIONS & PROPERTIES

| Nominal diameter | I.D. mm | O.D. mm | Pitch mm | Weight (reference) g/m | L/coil m | Allowable pressure (at room temperature) MPa {kgf/cm ² } | Allowable decompression power (at room temperature) kPa {mmHg} | Allowable bending radius mm |
|------------------|------------|------------|-------------|------------------------------|-------------|---|--|-----------------------------------|
| 50 | 50.6 | 60.2 | 10.0 | 590 | 30 | 0.05 {0.5} | -66.0 {-495} | 50 |
| 75 | 76.4 | 86.4 | 13.0 | 785 | 30 | 0.04 {0.4} | -33.0 {-248} | 75 |
| 100 | 101.6 | 112.2 | 15.0 | 1030 | 30 | 0.03 {0.3} | -21.5 {-161} | 100 |
| 125 | 125.9 | 138.7 | 21.0 | 1355 | 20 | 0.02 {0.2} | -20.0 {-150} | 125 |
| 150 | 152.4 | 164.8 | 20.0 | 1680 | 20 | 0.02 {0.2} | -14.5 {-109} | 150 |
| 200 | 203.2 | 216.5 | 22.5 | 2205 | 20 | 0.01 {0.1} | -6.0 {-45} | 200 |

Powder & Granule · Hose Band

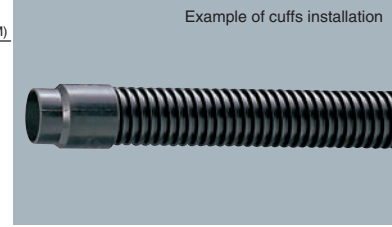
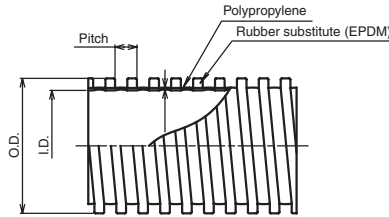


TOTAKU HERAN DUCT



RoHS Compliant

Item No.21108-



Features

- More than double abrasion-resistance compared with the standard TAC DUCT (according to our testing methods)
- Excellent cold-resistance and heat-resistance (Permissible temperature range : -30~80°C)
- Excellent anti-static effect (material resistance by volume : 105Ω·cm or less)
- Less Ozone-crack damage compared to a traditional rubber hose.

Applications

- For transportation of pellets, iron-powder, wood-powder and paper dust.
- For hot wind machines (heat resistant type)
- Additionally, use this as a duct hose where abrasion resistance, heat-resistance, and effects of electricity guiding are required.

STANDARD DIMENSIONS & PROPERTIES

| Nominal diameter | I.D. | O.D. | Pitch | Weight (reference) | L/coil | Allowable pressure (at room temperature) | Allowable decompression power (at room temperature) | Allowable bending radius |
|------------------|-------|-------|-------|--------------------|--------|--|---|--------------------------|
| | mm | mm | | | | | | |
| 38{1½} | 38.0 | 46.8 | 9.5 | 340 | 30 | 0.030 {0.31} | -40.0 {-300} | 45 |
| 50{2} | 50.6 | 61.2 | 10.0 | 555 | 30 | 0.030 {0.31} | -40.0 {-300} | 55 |
| 65{2½} | 62.4 | 73.0 | 12.0 | 610 | 30 | 0.020 {0.20} | -33.0 {-248} | 65 |
| 75{3} | 76.4 | 87.2 | 13.0 | 730 | 30 | 0.020 {0.20} | -26.5 {-199} | 75 |
| 90{3½} | 88.9 | 100.3 | 13.5 | 900 | 30 | 0.010 {0.10} | -20.0 {-150} | 90 |
| 100{4} | 101.6 | 113.0 | 15.0 | 945 | 30 | 0.010 {0.10} | -20.0 {-150} | 100 |
| 125{5} | 125.9 | 139.7 | 21.5 | 1335 | 20 | 0.010 {0.10} | -16.5 {-124} | 125 |
| 150{6} | 152.4 | 166.2 | 20.0 | 1580 | 20 | 0.010 {0.10} | -13.0 {-98} | 150 |
| 200{8} | 203.7 | 217.5 | 22.5 | 2090 | 20 | 0.005 {0.05} | -13.0 {-98} | 200 |
| 250{10} | 252.0 | 274.2 | 25.0 | 5700 | 10 | 0.005 {0.05} | -16.5 {-124} | 350 |
| 300{12} | 303.0 | 328.2 | 30.0 | 6260 | 10 | 0.005 {0.05} | -16.5 {-124} | 350 |

Connection method

For installation, please use exclusive rubber cuffs (ø38-ø200) or put it in directly.
Furthermore please use an exclusive spiral wire band for installation bands.

SPIRAL WIRE BAND

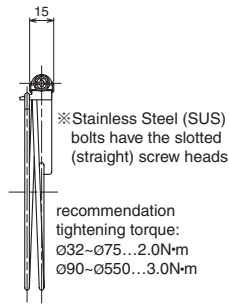
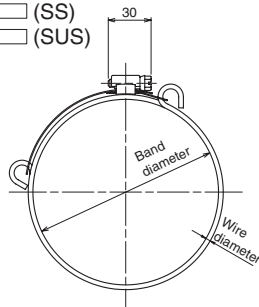
material : SS-Zn Plating

Stainless Steel (Dimensions are slightly different from the following table.)

Item No.92107- (SS)

Item No.92210- (SUS)

[SY band]



recommendation tightening torque:
ø32-ø75...2.0N·m
ø90-ø550...3.0N·m

When tightening passes, a hose sometimes rips. (mm)

For DUCT HOSE

| Calling | Hose size | Band diameter | Wire Diameter | Applicable product |
|---------|-----------|---------------|---------------|--|
| SY 32 | 32 | 37~ 32 | 2.6 | Duct Hose ø32, Duct Cuffs ø32 |
| SY 38 | 38 | 46~ 38 | 2.6 | Duct Hose ø38, Duct Cuffs ø38 |
| SY 50 | 50 | 60~ 51 | 2.6 | Duct Hose ø50, Duct Cuffs ø50 |
| SY 60 | 60 | 67~ 58 | 2.6 | Duct Hose ø65, SD-A ø60 |
| SY 65 | 65 | 72~ 63 | 2.6 | Duct Hose ø65, Duct Cuffs ø65 |
| SY 75 | 75 | 85~ 76 | 2.6 | Duct Hose ø75, Duct Cuffs ø75 |
| SY 90 | 90 | 98~ 88 | 3.0 | Duct Hose ø90, Duct Cuffs ø90 |
| SY100 | 100 | 117~ 97 | 3.0 | Duct Hose ø100, Duct Cuffs ø100 |
| SY117 | 117 | 121~ 101 | 3.0 | TOTAKU DUCT-AL ø117, TOTAKU DUCT-EE ø115 |
| SY125 | 125 | 135~ 119 | 3.0 | Duct Hose ø125, Duct Cuffs ø125 |
| SY150 | 150 | 160~ 146 | 3.0 | Duct Hose ø150, Duct Cuffs ø150 |
| SY165 | 165 | 180~ 161 | 3.0 | Duct Hose ø165 |



| Calling | Hose size | Band diameter | Wire Diameter | Applicable product |
|---------|-----------|---------------|---------------|---------------------------------|
| SY175 | 175 | 190~ 171 | 3.0 | Duct Hose ø175, Duct Cuffs ø175 |
| SY200 | 200 | 217~ 197 | 3.0 | Duct Hose ø200, Duct Cuffs ø200 |
| SY225 | 225 | 240~ 220 | 3.0 | Duct Hose ø225 |
| SY250 | 250 | 267~ 247 | 3.0 | Duct Hose ø250 |
| SY275 | 275 | 291~ 271 | 3.0 | Duct Hose ø275 |
| SY300 | 300 | 315~ 296 | 3.0 | Duct Hose ø300 |
| SY350 | 350 | 367~ 348 | 3.0 | Duct Hose ø350 |
| SY400 | 400 | 417~ 398 | 3.0 | Duct Hose ø400 |
| SY450 | 450 | 467~ 448 | 3.0 | Duct Hose ø450 |
| SY500 | 500 | 517~ 498 | 3.0 | Duct Hose ø500 |
| SY550 | 550 | 565~ 546 | 3.0 | Duct Hose ø550 |

Note. ø60...made of SUS only, ø165-ø550...made of steel only

Suction & Delivery Hose

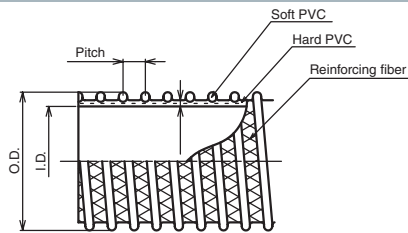
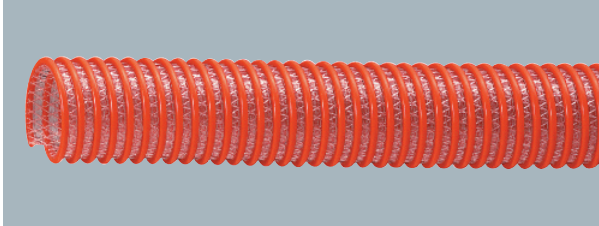


TOTAKU LINE ACE



RoHS Compliant

Item No.22114-



STANDARD DIMENSIONS & PROPERTIES

| Nominal diameter | I.D. mm | O.D. mm | Pitch mm | Weight (reference) g/m | L/coil m | Allowable pressure (at room temperature) MPa {kgf/cm ² } | Vacuum Deformation Temperature {-101.3kPa} {-760mmHg} °C | Allowable bending radius mm |
|------------------|------------|------------|-------------|------------------------------|-------------|---|---|-----------------------------------|
| 25{1} | 25.4 | 34.9 | 7.5 | 395 | 50 | 0.50 {5.1} | 70 | 105 |
| 32{1¼} | 32.0 | 42.5 | 8.5 | 515 | 50 | 0.50 {5.1} | 70 | 120 |
| 38{1½} | 38.0 | 48.8 | 9.0 | 670 | 50 | 0.50 {5.1} | 65 | 150 |
| 50{2} | 50.8 | 63.4 | 10.0 | 945 | 50 | 0.50 {5.1} | 65 | 225 |
| 65{2½} | 63.5 | 78.5 | 14.3 | 1300 | 20-50 | 0.50 {5.1} | 60 | 270 |
| 75{3} | 76.2 | 92.0 | 15.1 | 1630 | 20-50 | 0.50 {5.1} | 60 | 375 |
| 90{3½} | 88.9 | 106.5 | 16.2 | 2270 | 20-50 | 0.50 {5.1} | 60 | 480 |
| 100{4} | 101.6 | 120.0 | 16.4 | 2610 | 20-50 | 0.50 {5.1} | 60 | 540 |
| 125{5} | 125.9 | 152.5 | 22.0 | 4180 | 20 | 0.50 {5.1} | 55 | 630 |
| 150{6} | 151.4 | 180.0 | 24.0 | 5800 | 20 | 0.50 {5.1} | 55 | 780 |
| 200{8} | 203.7 | 237.0 | 28.0 | 8500 | 10 | 0.50 {5.1} | 50 | 1200 |
| 250{10} | 254.0 | 295.0 | 32.0 | 13300 | 5 | 0.25 {2.5} | 50 | 1890 |
| 300{12} | 304.8 | 347.0 | 34.0 | 16000 | 5 | 0.25 {2.5} | 45 | 2190 |

Features

- With reinforcing fiber, withstands a maximum working pressure of 0.50MPa {5.1 kgf/cm²}.

Applications

- For suction/delivery
- For the beginning of water pumps, high-elevation, hoisting, and so on
- For suction of dumper-cars

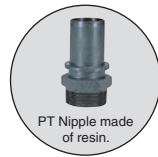
SHIME-TOTAKU for LINE ACE (made of resin)

Item No.92298-

Patent Registered

Features

- This resin-made coupling is as lightweight as one half of the weight of metal couplings.
- Allowable pressure of LINE ACE with which SHIME TAC is connected is equal to that of the hose only.
- Attaching and detaching work of the couplings on the job site is easy.
- It doesn't rust due to being made by the resin.
- Has a high durability. (Proven upon the repeating pressure test) SHIME TOTAKU was installed at both ends of LINE ACE placed in a straight form, and then 0-0.5MPa pressure was repeatedly applied to them in every 20 seconds.



PT Nipple made of resin.



Holder made of resin.



Collar Nipple made of resin.

Size & Kind

- Nominal Dia. of 38, 50, 65, 75 and 100mm are available.
(Note) PT Nipple made of the resin is available only in sizes of 38 and 50mm.
- Besides the newly released PT Nipple and S Collar Nipple (both made of plastic), Nipple with JIS10KF (made of iron and SUS), M1 Nipple, S-Collar Nipple, G-Collar Nipple and Both Mouth Nipple (made of iron) are available as special order items.



Foodstuffs · Powder & Granule



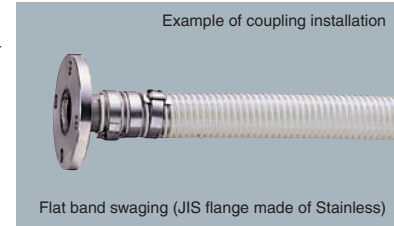
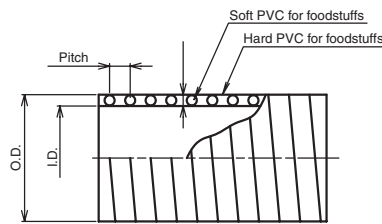
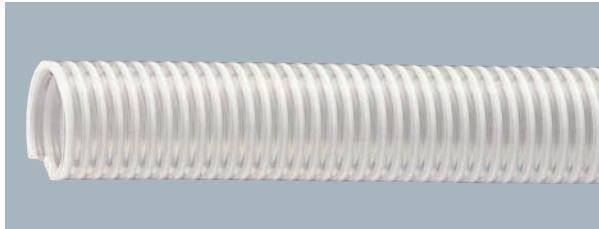
This product is suitable regarding the following notification
Notification of Ministry of Health, Labor and Welfare No.201 and No.267

TOTAKU SD-F



RoHS Compliant

Item No.22107-



Features

- No taste and scentless, good for transporting foodstuffs
- Partly transparent structure, you can easily confirm inner fluid
- Consists of plasticizer of a non-phthalic acid system, conforming to Notification of Ministry of Health, Labor and Welfare No.267 dated August 1st, 2003.
- Can transport fat or fatty foodstuffs
Completely conforms to Notification of Ministry of Health, Labor and Welfare No.201

Applications

- For transportation of Sake, Liquor, Beer, and Soft-drinks
- Additionally, for transportation of other foodstuffs.
- For transportation of kerosene, light oil, equipment oil, etc.
- For suction/delivery
- ※ In the case of transporting powdered foodstuffs, please put earth wire (such as copper wire) around the outside of the Hose, and connect the wire to an earth-cable.
- ※ After using the hose, please take care to not leave organic solvents (such as high concentration alcohol) inside the hose.

STANDARD DIMENSIONS & PROPERTIES

| Nominal diameter | I.D. mm | O.D. mm | Weight (reference) g/m | L/coil m | Allowable pressure (at room temperature) MPa {kgf/cm ² } | Vacuum Deformation Temperature (-101.3kPa) (-760mmHg) °C | Allowable bending radius mm |
|------------------|------------|------------|------------------------------|-------------|---|---|-----------------------------------|
| 25{1} | 25.4 | 31.2 | 340 | 50 | 0.50 {5.1} | 65 | 240 |
| 32{1¼} | 32.0 | 39.2 | 515 | 50 | 0.45 {4.6} | 65 | 340 |
| 38{1½} | 38.0 | 46.0 | 655 | 50 | 0.40 {4.1} | 65 | 350 |
| 50{2} | 50.8 | 61.0 | 1130 | 50 | 0.40 {4.1} | 65 | 500 |
| 65{2½} | 63.5 | 74.8 | 1540 | 20-50 | 0.40 {4.1} | 65 | 600 |
| 75{3} | 76.2 | 88.0 | 1900 | 20-50 | 0.40 {4.1} | 65 | 775 |
| 90{3½} | 88.9 | 100.5 | 2200 | 20 | 0.30 {3.1} | 60 | 1065 |
| 100{4} | 101.6 | 115.8 | 3080 | 20 | 0.30 {3.1} | 60 | 1150 |
| 125{5} | 127.0 | 141.0 | 3660 | 20 | 0.25 {2.5} | 60 | 1600 |
| 150{6} | 152.4 | 167.8 | 5000 | 20 | 0.20 {2.0} | 55 | 1900 |

<Regarding fat and fatty foodstuffs>

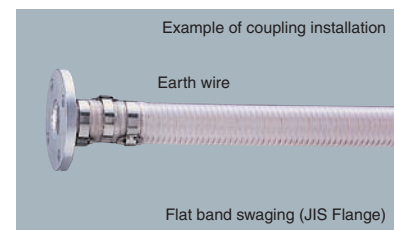
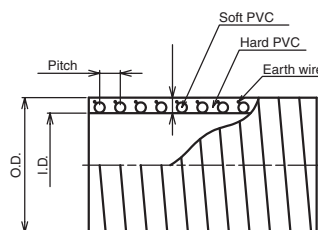
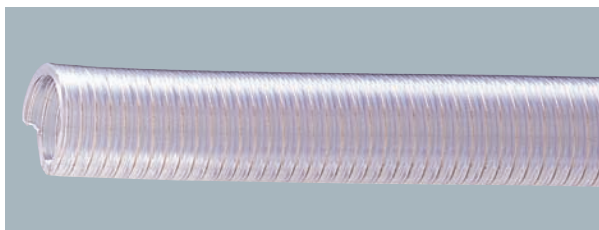
According to "The Food Sanitation Law", fat and fatty foodstuffs are the following. It's said to be "foods where the content of oils and fats in the food or on the food surface is roughly 20 % or more, not including dried solid food items, or foods that contain fat or fatty foodstuffs." For example, beef suet, vegetable oil, ham, bacon, beef, pork, chocolate, potato chips, tempura, deep-fried tofu, deep-fried fish paste cake, croquettes, pork cutlets, mayonnaise, dressing, cheese, butter, hamburger steak, dumplings, fried chicken, meatballs, curry, beef stew, simmered meat and potatoes, vegetable stir-fry dishes, fried burdock root, cooked food including oil and fried tofu, potato salad, doughnuts, cakes, cookies, fried dough cookies, fried rice crackers, etc.

TOTAKU SD-CE



RoHS Compliant

Item No.22109-



Features

- With built-in earth wire (copper wire), excellent in anti-static effect
- With transparent wall, you can easily confirm inner materials transported

Applications

- For transportation of plastic pellets
- For transportation of white powder like calcium carbonate, etc.
- For piping in a room which dislikes static electricity, (ex. clean rooms, etc)
- For suction/delivery, more suitable for delivery usage.

STANDARD DIMENSIONS & PROPERTIES

| Nominal diameter | I.D. mm | O.D. mm | Weight (reference) g/m | L/coil m | Allowable pressure (at room temperature) MPa {kgf/cm ² } | Vacuum Deformation Temperature (-101.3kPa) (-760mmHg) °C | Allowable bending radius mm |
|------------------|------------|------------|------------------------------|-------------|---|---|-----------------------------------|
| 25{1} | 25.4 | 33.7 | 570 | 50 | 0.50 {5.1} | 60 | 240 |
| 32{1¼} | 32.0 | 41.8 | 745 | 50 | 0.45 {4.6} | 60 | 340 |
| 38{1½} | 38.0 | 48.0 | 880 | 50 | 0.40 {4.1} | 60 | 350 |
| 50{2} | 50.8 | 63.5 | 1470 | 50 | 0.40 {4.1} | 60 | 500 |
| 65{2½} | 63.5 | 76.8 | 1925 | 20-50 | 0.40 {4.1} | 60 | 600 |
| 75{3} | 76.2 | 89.8 | 2290 | 20-50 | 0.40 {4.1} | 55 | 775 |
| 90{3½} | 88.9 | 102.8 | 2725 | 20 | 0.30 {3.1} | 55 | 1065 |
| 100{4} | 101.6 | 118.0 | 3640 | 20 | 0.30 {3.1} | 55 | 1150 |
| 125{5} | 127.0 | 143.0 | 4350 | 20 | 0.25 {2.5} | 50 | 1600 |
| 150{6} | 152.4 | 171.0 | 5910 | 20 | 0.20 {2.0} | 50 | 1875 |
| 200{8} | 203.2 | 226.5 | 9920 | 10 | 0.20 {2.0} | 45 | 3000 |

Multi-purpose Hose



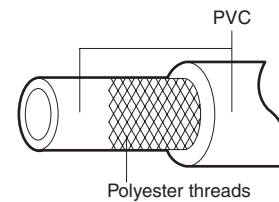
HAKKO E-TB

RoHS Compliant



Feature

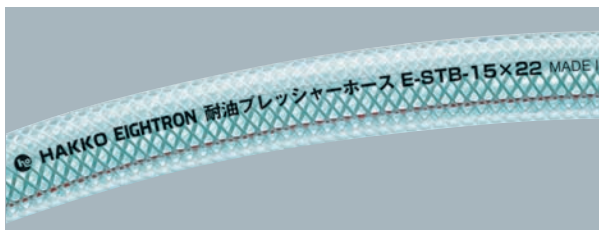
- Transparency makes easier to confirm fluid flow.
- Excellent in pressure resistance by means of built-in reinforcing threads.



| Code | I.D. × O.D. mm | Working Pressure MPa | | Bend. Radius mm (at 20°C) | Temp. range °C | Length m |
|-----------|-------------------|----------------------|---------|------------------------------|-------------------|-------------|
| | | at 20°C | at 60°C | | | |
| E-TB-6 | 6 × 11 | 0~1.0 | 0~0.7 | 40 | 0~60 | 100 |
| E-TB-8 | 8 × 13.5 | 0~1.0 | 0~0.7 | 55 | | 100 |
| E-TB-9 | 9 × 15 | 0~1.0 | 0~0.7 | 65 | | 100 |
| E-TB-10 | 10 × 16 | 0~1.0 | 0~0.7 | 70 | | 100 |
| E-TB-12 | 12 × 18 | 0~1.0 | 0~0.7 | 85 | | 100 |
| E-TB-15 | 15 × 22 | 0~1.0 | 0~0.7 | 105 | | 100 |
| E-TB-19 | 19 × 26 | 0~1.0 | 0~0.6 | 135 | | 50 |
| E-TB-21.5 | 21.5 × 29 | 0~1.0 | 0~0.6 | 155 | | 50 |
| E-TB-25 | 25 × 33 | 0~1.0 | 0~0.6 | 175 | | 50 |
| E-TB-32 | 32 × 41 | 0~0.5 | 0~0.35 | 225 | | 50 |
| E-TB-38 | 38 × 48 | 0~0.5 | 0~0.35 | 265 | 50 | |
| E-TB-50 | 50 × 62 | 0~0.3 | 0~0.2 | 350 | 40 | |

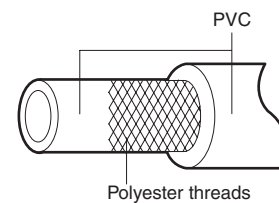
HAKKO E-STB

RoHS Compliant



Feature

- Have oil proof, compared with pressure hoses.
- Transparency makes easier to confirm fluid flow.
- Excellent in pressure resistance by means of built-in reinforcing threads.



| Code | I.D. × O.D. mm | Working Pressure MPa | | Bend. Radius mm (at 20°C) | Temp. range °C | Length m |
|------------|-------------------|----------------------|---------|------------------------------|-------------------|-------------|
| | | at 20°C | at 60°C | | | |
| E-STB-6 | 6 × 11 | 0~1.0 | 0~0.7 | 40 | 0~60 | 100 |
| E-STB-8 | 8 × 13.5 | 0~1.0 | 0~0.7 | 55 | | 100 |
| E-STB-9 | 9 × 15 | 0~1.0 | 0~0.7 | 65 | | 100 |
| E-STB-12 | 12 × 18 | 0~1.0 | 0~0.7 | 85 | | 100 |
| E-STB-15 | 15 × 22 | 0~1.0 | 0~0.7 | 105 | | 50 |
| E-STB-19 | 19 × 26 | 0~1.0 | 0~0.6 | 135 | | 50 |
| E-STB-21.5 | 21.5 × 29 | 0~1.0 | 0~0.6 | 155 | | 50 |
| E-STB-25 | 25 × 33 | 0~1.0 | 0~0.6 | 175 | | 50 |
| E-STB-32 | 32 × 41 | 0~0.5 | 0~0.35 | 225 | | 40 |
| E-STB-38 | 38 × 48 | 0~0.5 | 0~0.35 | 265 | | 40 |
| E-STB-50 | 50 × 62 | 0~0.3 | 0~0.2 | 350 | 40 | |

HAKKO E-SP

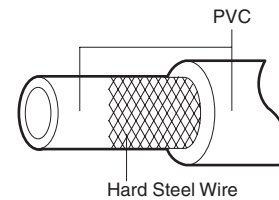
RoHS Compliant

vaccum OK



Feature

- The spring wire structure also allows vacuum capability.
- With the spring wire it is suitable for small space piping.
- Transparency makes easier to confirm fluid flow.



| Code | I.D. × O.D. mm | Working Pressure MPa | | Bend. Radius mm (at 20°C) | Temp. range °C | Length m |
|---------|-------------------|----------------------|-----------|------------------------------|-------------------|-------------|
| | | at 20°C | at 60°C | | | |
| E-SP-15 | 15 × 22 | -0.1~0.5 | -0.1~0.25 | 60 | 0~50 | 50 |
| E-SP-19 | 19 × 26 | -0.1~0.4 | -0.1~0.2 | 75 | | 50 |
| E-SP-25 | 25 × 33 | -0.1~0.4 | -0.1~0.2 | 100 | | 50 |
| E-SP-32 | 32 × 41 | -0.1~0.3 | -0.1~0.15 | 130 | | 40 |
| E-SP-38 | 38 × 48 | -0.1~0.3 | -0.1~0.15 | 150 | | 40 |
| E-SP-50 | 50 × 62 | -0.1~0.3 | -0.1~0.15 | 200 | | 40 |

Tank & Pump for supply of solvent

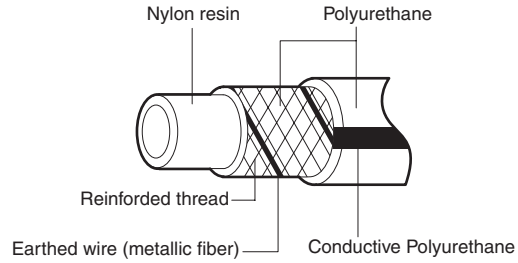


HAKKO E-SV

RoHS Compliant



Non-PVC
(Non-vinyl chloride)



Feature

- Earthing can be taken with conductive line layer, without taking out an earthed line. Fittings can be fixed speedily.
- An earthed line (metallic fiber) is built-in, and charge can be removed surely with earthing.
- An earthed line excels in bending property, compared with such a metal wire as a copper wire, because the earthed wire is the metallic fiber.

| Code | I.D. × O.D. mm | Working Pressure MPa | | Bend. Radius mm (at 20°C) | Temp. range °C | Length m |
|--------|-------------------|----------------------|---------|------------------------------|-------------------|-------------|
| | | at 20°C | at 60°C | | | |
| E-SV-7 | 7.5 × 10.5 | 0~1.5 | 0~0.7 | 60 | 0~60 | 100 |
| E-SV-9 | 9.5 × 14 | 0~1.5 | 0~0.7 | 80 | | 100 |

Exclusive use Fittings for E-SV

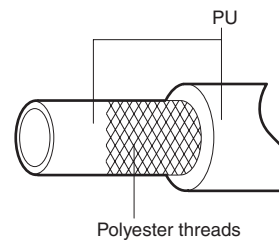
| External appearance | Code | Type | For hoses | Thread | Seat shape | Material |
|---------------------|----------------|-------------------------|-----------|--------|-------------|------------------------|
| | E-EM-75-G1/4-B | Internal thread (Fixed) | E-SV-7 | G 1/4 | Male barrel | Brass nickel plating |
| | E-EM-75-G3/8-B | | E-SV-7 | G 3/8 | | |
| | E-EM-95-G3/8-B | | E-SV-9 | G 3/8 | | |
| | E-EM-75-G1/4-S | | E-SV-7 | G 1/4 | | |
| | E-EM-75-G3/8-S | | E-SV-7 | G 3/8 | | Stainless steel SUS304 |
| | | | | | | |

Pneumatic Hose



HAKKO E-NF

RoHS Compliant



Feature

- Very tough & abrasion resistance, due to the use of Polyester cord reinforcement.
- Very lightweight, easy to handle, relieving the work load.

| Code | I.D. × O.D. mm | Working Pressure MPa | | Bend. Radius mm (at 20°C) | Temp. range °C | Length m |
|----------|-------------------|----------------------|---------|------------------------------|-------------------|-------------|
| | | at 20°C | at 60°C | | | |
| E-NF-6.5 | 6.5 × 10 | 0~1.5 | 0~0.6 | 40 | -20~60 | 100 |
| E-NF-8.5 | 8.5 × 12.5 | 0~1.5 | 0~0.6 | 55 | | 100 |
| E-NF-11 | 11 × 15.5 | 0~1.5 | 0~0.6 | 66 | | 100 |

Exclusive use Fittings for E-NF

| External appearance | Code | Item | For hoses |
|---------------------|-----------|---------------------------|-----------|
| | E-RSS-65P | Socket Nut with Protector | E-NF-6.5 |
| | E-RSS-85P | | E-NF-8.5 |
| | E-RSP-65P | Plug Nut with Protector | E-NF-6.5 |
| | E-RSP-85P | | E-NF-8.5 |

SOFT FLUORINE SERIES



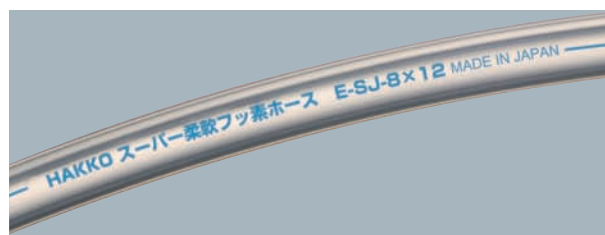
Excellent Chemical resistance & flexibility LAMINATION TYPE

Feature

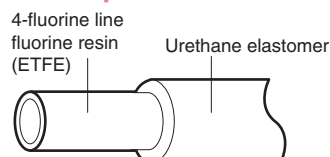
- The laminated structure gives flexibility greater than that of conventional single-layered fluorine hoses, improving usability.
- The inner layer of each hose is laminated with 4-fluorine line fluorine resin (ETFE), providing excellent chemical resistance, and is effective against almost all chemicals including solvents such as ketones.
- Fluorine resin used in the inner layer of each hose is non-toxic, and complies with the requirements of the Food Sanitation Law, Japanese Ministry of Health and Welfare, Notification No. 201.

HAKKO E-SJ

(non-braided tube type)



RoHS Compliant



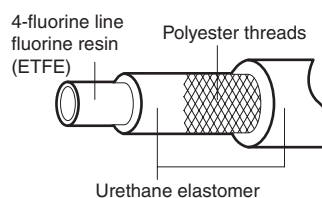
| Code | I.D. × O.D. mm | Working Pressure MPa | | Bend. Radius mm (at 20°C) | Temp. range °C | Length m |
|------------|-------------------|----------------------|---------|------------------------------|-------------------|-------------|
| | | at 20°C | at 60°C | | | |
| E-SJ-2 | 2 × 4 | 0~0.6 | 0~0.2 | 15 | -20~80 | 100 |
| E-SJ-3 | 3 × 5 | 0~0.6 | 0~0.2 | 20 | | |
| E-SJ-4 | 4 × 6 | 0~0.6 | 0~0.2 | 25 | | |
| E-SJ-6 × 8 | 6 × 8 | 0~0.4 | 0~0.2 | 50 | | |
| E-SJ-6 | 6 × 9 | 0~0.6 | 0~0.2 | 35 | | |
| E-SJ-8 | 8 × 12 | 0~0.6 | 0~0.2 | 50 | | |

HAKKO E-SJB

(reinforcing braided type)



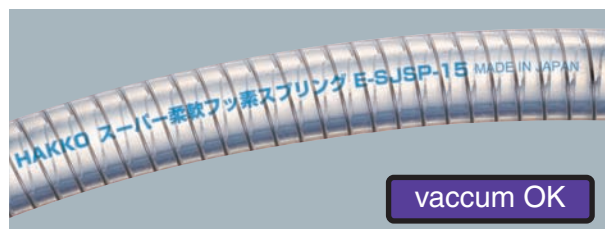
RoHS Compliant



| Code | I.D. × O.D. mm | Working Pressure MPa | | Bend. Radius mm (at 20°C) | Temp. range °C | Length m |
|----------|-------------------|----------------------|---------|------------------------------|-------------------|-------------|
| | | at 20°C | at 60°C | | | |
| E-SJB-9 | 9 × 15 | 0~1.0 | 0~0.5 | 63 | -20~80 | 20 |
| E-SJB-12 | 12 × 18 | 0~1.0 | 0~0.5 | 84 | | |
| E-SJB-15 | 15 × 22 | 0~1.0 | 0~0.5 | 105 | | |
| E-SJB-19 | 19 × 26 | 0~1.0 | 0~0.5 | 133 | | |
| E-SJB-25 | 25 × 33 | 0~0.6 | 0~0.3 | 175 | | |

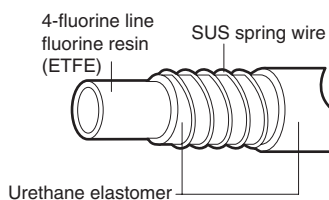
HAKKO E-SJSP

(reinforcing spring wire type)



vaccum OK

RoHS Compliant



| Code | I.D. × O.D. mm | Working Pressure MPa | | Bend. Radius mm (at 20°C) | Temp. range °C | Length m |
|-----------|-------------------|----------------------|-----------|------------------------------|-------------------|-------------|
| | | at 20°C | at 60°C | | | |
| E-SJSP-12 | 12 × 18 | -0.1~0.5 | -0.1~0.25 | 50 | -20~80 | 20 |
| E-SJSP-15 | 15 × 22 | -0.1~0.5 | -0.1~0.25 | 60 | | |
| E-SJSP-19 | 19 × 26 | -0.1~0.4 | -0.1~0.2 | 75 | | |
| E-SJSP-25 | 25 × 33 | -0.1~0.4 | -0.1~0.2 | 100 | | |
| E-SJSP-32 | 32 × 41 | -0.1~0.3 | -0.1~0.15 | 130 | | |
| E-SJSP-38 | 38 × 48 | -0.1~0.3 | -0.1~0.15 | 150 | | |