TOYONAKA HOT LABORATORY CO.,LTD.

# PRODUCTS GUIDE

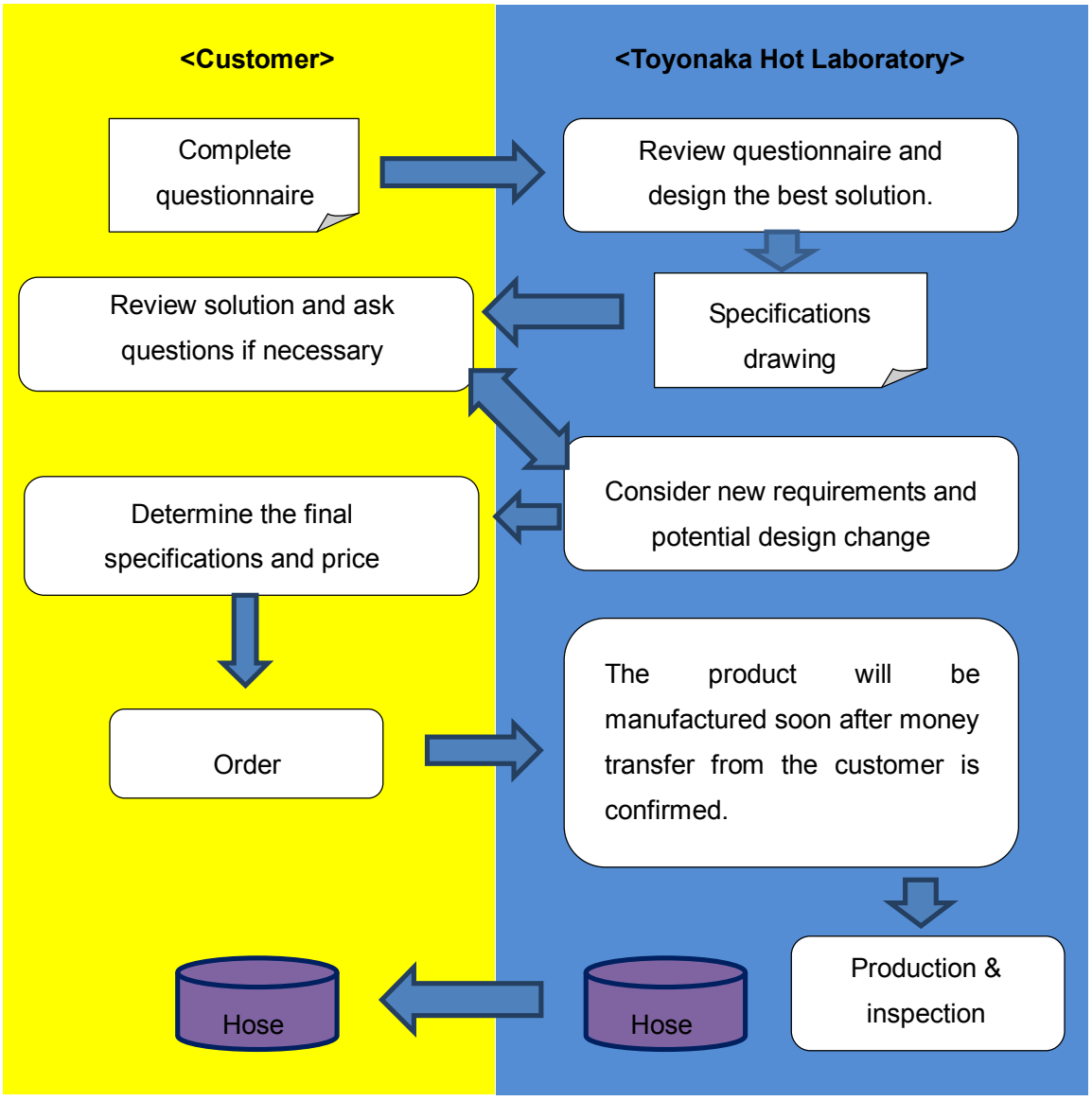
## 総合カタログ

株式会社 豊中ホット研究所

# Introduction

We are a specialized company in the manufacturing of industrial hoses for liquid or gas including manufacturing of hoses where temperature control is critical. We manufacture our products for several domestic and foreign industries such as automotive, shipbuilding, construction, semiconductor, sanitary, bookbinding, food, medical, and apparel. Our hoses are used in painting, sealing, hot melt adhesives, resin molding, steam cleaning and gas sampling. Our company's ISO9001 designation guarantees that continuous efforts are made to meet the high-quality standards of the Japanese local market and aims to deliver these same high-quality standards to international markets as well.

# Manufacturing process



# Basic philosophy of our company in craftsmanship

## A customer's satisfaction is our satisfaction.

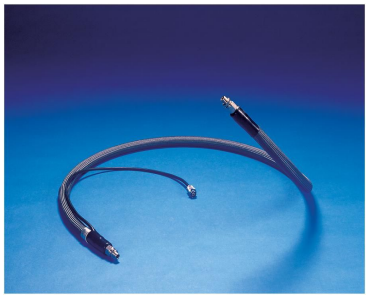
At Toyonaka Hot, we always listen to the customer and offer the products in accordance with the requirements specified in the questionnaire.
At Toyonaka Hot, the customer always comes first. Our years of experience help offer products that are appropriate and easy-to-use.

## Materials are selected carefully.

The resisting pressure layer of our hose is using a stainless steel wire rather than the cheaper and more commonly used, iron wire. At Toyonaka Hot, we believe there is no substitute for quality. Even if a cheaper iron wire fits the specification, iron's corrosive properties will then prohibit its use. Corrosion leads to a weaker pressure-resistant layer and ultimately becoming an inferior product that could lead to serious injury in the case of high-pressure hose burst. At Toyonaka Hot, safety is our number one concern. Therefore, we will select and inspect the materials very carefully during the design phase.

## 100 percent inspections.

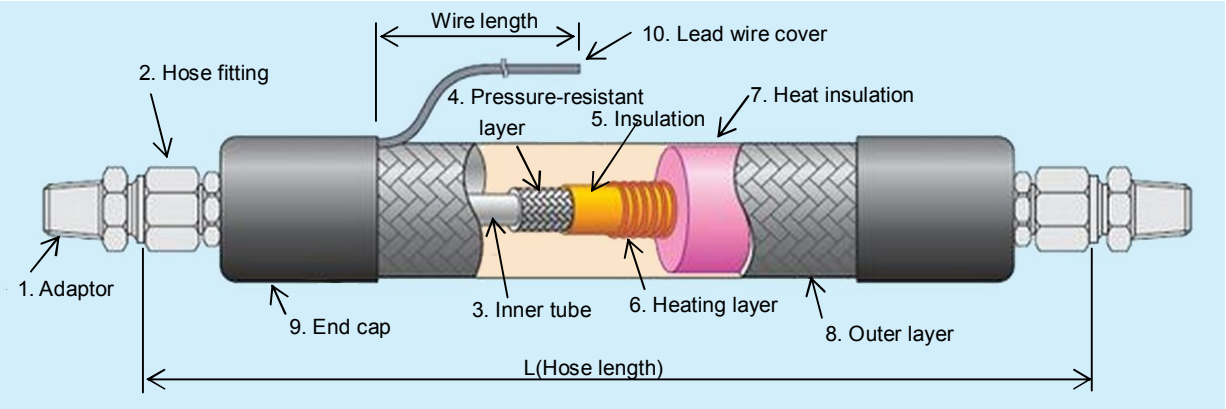
100 percent inspections are being conducted from the acceptance of raw material until parts and products shipment. Our ISO9001 designation ensures that total quality is maintained throughout the entire manufacturing process.


# Hot Hose

## Features and Benefits

The hot hose keeps warming and heating and helps prevent an increase in viscosity, decrease in temperature, and aids in the prevention of freezing of fluids. At Toyonaka Hot, we design and manufacture the best solution to meet your specifications. Our Hot Hose will save time and money spent on preparing heater tracers, insulators, and other related activities giving you a big advantage over your competition. In addition, we provide various temperature controllers such as a built-in temperature adjustment thermostat, etc.



| Typical Applications | Typical Fluids Handled |
|---|---|
| Hot melt application | Butyl rubber, Pressure sensitive adhesives, Ethylene vinyl acetate, Polyamide, Polyurethane reactive, warm melt sealers etc. |
| Dispenser | Epoxy resins, PVC, adhesives, Urethanes etc. |
| Automotive manufacturing | Sealants & adhesives, etc. |
| Resin mold | PP, PE, Acrylic resin, PVC, etc. |

## General specifications

| Tube material | Teflon tube | Nylon tube | Stainless tube |
|---|---|---|---|
| Maximum working temperature | 230°C | 50°C | 400°C |
| Maximum working pressure | 30 MPa | 30 MPa | 5 MPa |

The above-mentioned specification is standard. We may be unable to manufacture depending on size or the purpose of use.

## Standard threads

| | | |
|---|---|---|
| G(PF) | Japanese standard straight pipe threads for general use | JIS B0202 |
| R(PT) | Japanese standard taper pipe threads for general use | JIS B0203 |
| UNF | Unified fine pitch thread | JIS B0208 |
| UNC | Unified coarse pitch thread | JIS B0206 |
| M | Metric fine pitch thread | JIS B0205 |
| M | Metric coarse pitch thread | JIS B0205 |
| NPT | American standard taper pipe threads for general use | ANSI/ASME B1.20.1 |
| NPS | American standard straight pipe threads for general use | |
| NPTF | Dryseal American standard taper pipe threads | ANSI/B1.20.3, 1.20.4 |
| NPSM | American standard straight pipe threads for free-fitting mechanical joints fixtures | |

# Hot Hose Questionnaire

Please fill in the following questions and send by e-mail.
We will reply to you with a quotation by e-mail.

<Note> Our hot hose is not made of anti-explosion and waterproof materials

E-mail: firdaus@toyonakahot.co.jp

| | |
|---|---|
| Address | |
| Company name | |
| Department | |
| Name | |
| TEL | |
| FAX | |
| E-mail | |

Hose material: □ Teflon (Fluorine resin)
□ Nylon (Polyamide)
□ Stainless flexible tube
□ Others ( )

Inner diameter: ( ) mm

Hose length: ( ) mm

Fitting material: □Stainless steel 304 □Iron □Brass
□Others( )

Type of fittings: ( )

Voltage: □ AC-( ) V single-phase □ DC-( ) V

Wattage: ( )W *Not necessary to write, when unknown.

Maximum working pressure: ( ) MPa
Current fluid temperature: ( ) °C

Type of temperature sensor: □ K thermocouple □ J thermocouple
□ T thermocouple
□ PT-100Ω □ Thermostat
□ Others ( )

Lead wire length: ( ) m

Hose ground: □ Necessary □ Unnecessary

Lead wire connector: □ Necessary *Maker name and P/N ( )
□ Unnecessary

Temperature controller: □ Necessary □ Unnecessary

Type of fluid: ( )

Heating conditions
□ Keeping warm Inlet temperature: ( ) °C
□ Heating Inlet temperature: ( ) °C
Outlet temperature: ( ) °C
Flow rate: ( ) ℓ / min

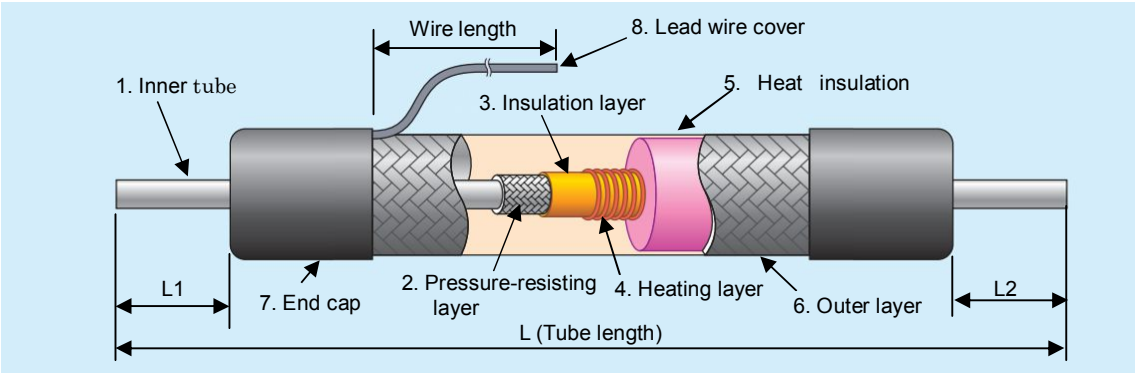
Environmental temperature: °C

Please write your requirements or questions.

# Hot Tube

## Features and Benefits

The tube is being lengthened further out of the hose at both ends. Hence a much smoother transmission of fluid can be easily achieved. This hose is very suitable for frequent hot fluid replacement as the tube can be easily connected and disconnected.




| Typical Applications | Typical Fluids Handled |
|---|---|
| Environmental equipment | Measurement of exhausting gas, gas analyzer, etc. |
| Dispenser | Epoxy resins, PVC, adhesives, Silicones, etc. |
| Paint coating | Hot air, etc. |
| Dew condensation prevention | Water, etc. |
| Others | Fuel, Ink, etc. |

## General specifications

| Tube material | Teflon tube | Nylon tube | Stainless tube |
|---|---|---|---|
| Maximum working temperature | 230°C | 50°C | 400°C |
| Maximum working pressure | Based on inner tube specifications | | |

The above-mentioned specification is standard. We may be unable to manufacture depending on size or the purpose of use.

## Hot Tube Questionnaire

Please fill in the following questions and send by e-mail.

We will reply to you with a quotation by e-mail.

<Note> Our hot hose is not made of anti-explosion and waterproof materials

E-mail: firdaus@toyonakahot.co.jp

| | |
|---|---|
| Address | |
| Company name | |
| Department | |
| Name | |
| TEL | |
| FAX | |
| E-mail | |

Tube material: □ Teflon (Fluorine resin)
□ Nylon (Polyamide)
□ Stainless flexible tube
□ Others ( )

Tube inner diameter: ( ) mm

Tube outer diameter: ( ) mm

Hose length (L): ( ) mm

Voltage: □ AC-( ) V single-phase □ DC-( ) V

Wattage: ( )W *Not necessary to write, when unknown.

Maximum working pressure: ( ) MPa

Current fluid temperature: ( ) °C

Type of temperature sensor: □ K thermocouple □ J thermocouple
□ T thermocouple
□ PT-100Ω □ Thermostat
□ Others ( )

Lead wire length: ( ) m

Tube ground: □ Necessary □ Unnecessary

Lead wire connector: □ Necessary *Maker name and P/N ( )
□ Unnecessary

Temperature controller: □ Necessary □ Unnecessary

Type of fluid: ( )

Heating conditions

□ Keeping warm Inlet temperature: ( ) °C

□ Heating Inlet temperature: ( ) °C

Outlet temperature: ( ) °C

Flow rate: ( ) ℓ / min

Environmental temperature: °C

Please write your requirements or questions.

# High Pressure Teflon Hose

## Features and Benefits

- Flexible and light weight hose makes it easy to use
- High chemical resistance
- Durable and safe
- Comes in a variety of fittings sizes

## Typical Applications

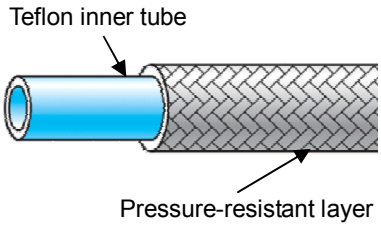
- Water-borne & solvent-borne airless spray
- Adhesive bonding
- Sealing system
- Sanitary equipment
- Industrial machinery

## Typical Fluids Handled

- Moisture-sensitive materials such as isocyanates
- Urethanes
- Sealants and adhesives
- Plural component materials
- Various chemicals

## R 300 Series

## (10MPa or less)

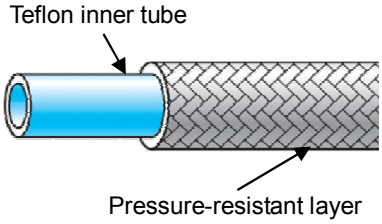



| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| R300-04 | 1/4 | 6 | 8.4 | 7 | 27 | 35 | 70 |
| R300-05 | 3/8 | 8 | 10 | 6 | 22 | 55 | 90 |
| R300-07 | 1/2 | 11 | 14.4 | 5 | 20 | 100 | 200 |
| R300-12 | 3/4 | 19 | 23.8 | 10 | 40 | 160 | 440 |

Operating temperature range: -65 to +230°C

## R 310 Series

## (Between 10MPa to 20Mpa)

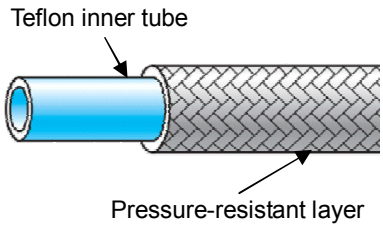



| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| R310-04 | 1/4 | 7 | 10.5 | 19 | 84 | 70 | 140 |
| R310-06 | 3/8 | 9 | 12.6 | 19 | 79.5 | 90 | 180 |
| R310-07 | 1/2 | 11 | 14.8 | 18 | 67 | 110 | 220 |
| R310-08 | 1/2 | 13 | 16.4 | 16 | 64 | 140 | 250 |
| R310-10 | 3/4 | 16 | 20.6 | 14 | 56 | 170 | 400 |
| R310-12 | 3/4 | 19 | 24.6 | 15 | 60 | 190 | 590 |
| R310-16 | 1 | 25 | 31 | 15 | 60 | 250 | 790 |

Operating temperature range: -65 to +230°C

# R 320 Series

# (Between 20MPa to 30Mpa)

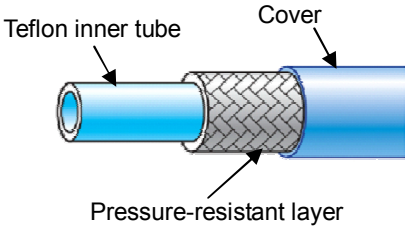



| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| R320-03 | 1/8 | 5 | 8.6 | 25 | 100 | 40 | 100 |
| R320-04 | 1/4 | 6 | 9.2 | 21 | 90 | 60 | 120 |
| R320-05 | 3/8 | 8 | 11.4 | 21 | 90 | 70 | 170 |
| R320-08 | 1/2 | 13 | 20.4 | 24 | 96 | 180 | 730 |
| R320-12 | 3/4 | 19 | 26.9 | 20 | 80 | 230 | 970 |
| R320-16 | 1 | 25 | 33 | 20 | 80 | 280 | 1360 |

Operating temperature range: -65 to +230°C

## R 320-S Series···Cover: Santoprene

## R 320-U Series···Cover: Polyurethane



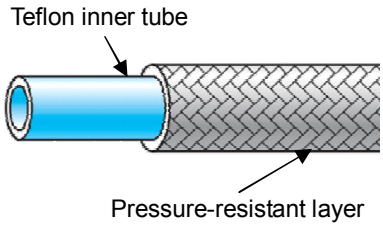

| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| R320-S-04 | 1/4 | 6 | 11.2 | 21 | 90 | 60 | 150 |
| R320-S-05 | 3/8 | 8 | 13.4 | 21 | 90 | 70 | 200 |
| R320-S-08 | 1/2 | 13 | 22.2 | 24 | 96 | 180 | 810 |
| R320-U-04 | 1/4 | 6 | 11.2 | 21 | 90 | 60 | 160 |
| R320-U-05 | 3/8 | 8 | 13.4 | 21 | 90 | 70 | 210 |
| R320-U-08 | 1/2 | 13 | 22.2 | 24 | 96 | 180 | 830 |

Operating temperature range: S-Series -65 to +130°C

U-Series -65 to +80°C

# R 330 Series

# (Between 30MPa to40Mpa)




| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| R330-02 | 1/8 | 4 | 7.4 | 32 | 130 | 35 | 90 |
| R330-04 | 1/4 | 6 | 10.6 | 30 | 120 | 70 | 207 |
| R330-05 | 3/8 | 8 | 14.1 | 31 | 125 | 80 | 370 |
| R330-08 | 1/2 | 13 | 20.6 | 30 | 112 | 180 | 690 |
| R330-12 | 3/4 | Under development | | | | | |
| R330-16 | 1 | | | | | | |

Operating temperature range: -65 to +230°C

Standard threads

| | | |
|---|---|---|
| G(PF) | Japanese standard straight pipe threads for general use | JIS B0202 |
| R(PT) | Japanese standard taper pipe threads for general use | JIS B0203 |
| UNF | Unified fine pitch thread | JIS B0208 |
| UNC | Unified coarse pitch thread | JIS B0206 |
| M | Metric fine pitch thread | JIS B0205 |
| M | Metric coarse pitch thread | JIS B0205 |
| NPT | American standard taper pipe threads for general use | ANSI/ASME B1.20.1 |
| NPS | American standard straight pipe threads for general use | |
| NPTF | Dryseal American standard taper pipe threads | ANSI/B1.20.3, 1.20.4 |
| NPSM | American standard straight pipe threads for free-fitting mechanical joints fixtures | |

# High Pressure Teflon Hose Questionnaire

Please fill in the following questions and send by e-mail.
We will reply to you with a quotation by e-mail.

E-mail: firdaus@toyonakahot.co.jp

| | |
|---|---|
| Address | |
| Company name | |
| Department | |
| Name | |
| TEL | |
| FAX | |
| E-mail | |

Bulk hose reference Number:

Hose length: mm

Fitting material: □Stainless steel 304 □Iron □Brass
□Others( )

Type of fittings:

Maximum working pressure: MPa

Type of fluid:

Fluid temperature: °C

Environmental temperature: °C

Flow rate: L/min

Please write your requirements or questions.

# High Pressure Nylon Hose

## Features and Benefits

- Flexible and light weight hose makes it easy to use
- High pressure hose can handle several high viscosity fluids
- Comes in a variety of fittings sizes

## Typical Applications

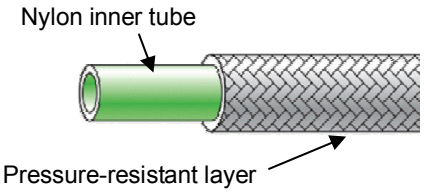
- Adhesive bonding
- Sealing system
- Marine shipbuilding
- High pressure washing

## Typical Fluids Handled

- Water-borne & solvent-borne airless spray
- Moisture-sensitive materials such as isocyanates
- Epoxies
- Sealants and adhesives
- Hydraulic oils

## R 100 Series

## Outer layer: Stainless wire braid

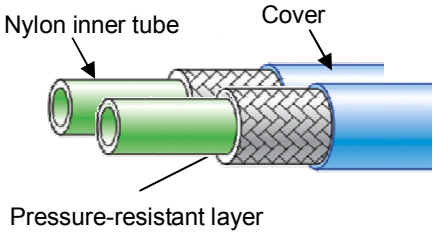



| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| R100-02 | 1/8 | 4 | 7.3 | 32 | 130 | 40 | 75 |
| R100-04 | 1/4 | 6 | 9.3 | 22 | 90 | 50 | 90 |
| R100-05 | 3/8 | 8 | 11.6 | 21 | 84 | 60 | 140 |
| R100-06 | 3/8 | 9 | 12.9 | 21 | 84 | 65 | 145 |
| R100-08 | 1/2 | 12.7 | 17.6 | 35 | 140 | 100 | 250 |
| R100-12 | 3/4 | 19 | 25.6 | 25 | 100 | 190 | 450 |
| R100-16 | 1 | 25 | 32.5 | 25 | 100 | 230 | 840 |

Operating temperature range: -40 to +100°C

## R 215-P Series···Cover: PVC

## R 215-S Series···Cover: Santoprene



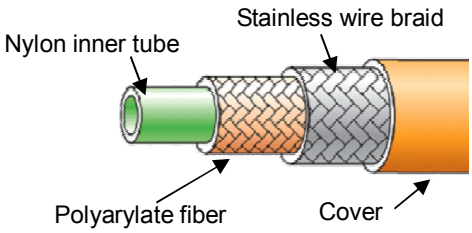

| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| R215-P-04 | 1/4 | 6 | 11.0 | 22 | 90 | 45 | 120 |
| R215-P-05 | 3/8 | 8 | 13.3 | 21 | 84 | 55 | 175 |
| R215-P-06 | 3/8 | 9 | 15.0 | 21 | 84 | 85 | 200 |
| R215-P-08 | 1/2 | 12.7 | 19.5 | 35 | 140 | 90 | 290 |
| R215-P-12 | 3/4 | 19 | 28.0 | 25 | 100 | 180 | 580 |
| R215-S-04 | 1/4 | 6 | 11.0 | 22 | 90 | 45 | 120 |
| R215-S-05 | 3/8 | 8 | 13.3 | 21 | 84 | 55 | 175 |

Operating temperature range: P Series -40 to +60°C

S Series -40 to +100°C

## R 240-P Series···Cover: PVC

## R 240-S Series···Cover: Santoprene




| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| R240-P-04 | 1/4 | 6 | 12.3 | 40 | 160 | 50 | 160 |
| R240-P-06 | 3/8 | 9 | 16.0 | 40 | 160 | 90 | 240 |
| R240-S-04 | 1/4 | 6 | 12.3 | 40 | 160 | 50 | 140 |
| R240-S-06 | 3/8 | 9 | 16.0 | 40 | 160 | 90 | 220 |

Operating temperature range: P Series -40 to +60°C

S Series -40 to +80°C

## Standard threads

| | | |
|---|---|---|
| G(PF) | Japanese standard straight pipe threads for general use | JIS B0202 |
| R(PT) | Japanese standard taper pipe threads for general use | JIS B0203 |
| UNF | Unified fine pitch thread | JIS B0208 |
| UNC | Unified coarse pitch thread | JIS B0206 |
| M | Metric fine pitch thread | JIS B0205 |
| M | Metric coarse pitch thread | JIS B0205 |
| NPT | American standard taper pipe threads for general use | ANSI/ASME B1.20.1 |
| NPS | American standard straight pipe threads for general use | |
| NPTF | Dryseal American standard taper pipe threads | ANSI/B1.20.3, 1.20.4 |
| NPSM | American standard straight pipe threads for free-fitting mechanical joints fixtures | |

# High Pressure Nylon Hose Questionnaire

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We will reply to you with a quotation by e-mail.

E-mail: firdaus@toyonakahot.co.jp

| | |
|---|---|
| Address | |
| Company name | |
| Department | |
| Name | |
| TEL | |
| FAX | |
| E-mail | |

Bulk hose reference Number:

Hose length: mm

Fitting material: □Stainless steel 304 □Iron □Brass
□Others( )

Type of fittings:

Maximum working pressure: MPa

Type of fluid:

Fluid temperature: °C

Environmental temperature: °C

Flow rate: L/min

Please write your requirements or questions.

# Low Pressure Hose

## Features and Benefits

- High solvent resistant hose makes this the choice for various applications
- Flexible and light weight hose makes it easy to use
- Can be used as a suction hose or a delivery hose
- Comes in a variety of fittings sizes

## Typical Applications

- Air or air-assisted spray
- Wood industries
- Adhesive and bonding system
- Auto feeder
- General metal

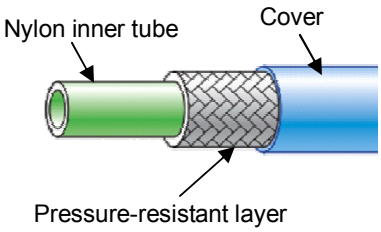
## Typical Fluids Handled

- Paints
- Cleaning fluids
- Protective coatings
- Hydraulic oils

## RF 20-P Series

Pressure-resistant layer: 04-08 Polyester
12 Stainless wire braids

Cover: PVC

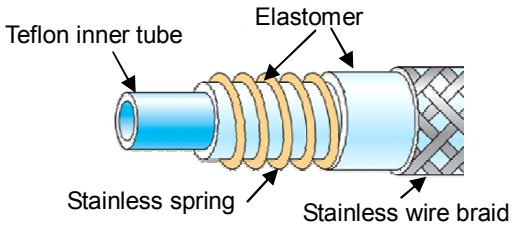



| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| RF20-P-04 | 1/4 | 6 | 12.0 | 6 | 24 | 40 | 130 |
| RF20-P-05 | 3/8 | 8 | 15.5 | 6 | 24 | 50 | 170 |
| RF20-P-08 | 1/2 | 12.7 | 19.8 | 6 | 24 | 80 | 280 |
| RF20-P-12 | 3/4 | 19 | 27 | 6 | 24 | 150 | 540 |

Operating temperature range: -40 to +60°C

## RF 3W Series

It is coarsely braided; the fluid can be seen.




| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/m) |
| RF3W-08 | 1/2 | 12 | 19.3 | 3 | 12 | 40 | 275 |
| RF3W-12 | 3/4 | 19 | 27.0 | 3 | 12 | 75 | 440 |
| RF3W-16 | 1 | 25 | 33.0 | 3 | 12 | 100 | 650 |

Operating temperature range: -20 to +70°C

## Standard threads

| | | |
|---|---|---|
| G(PF) | Japanese standard straight pipe threads for general use | JIS B0202 |
| R(PT) | Japanese standard taper pipe threads for general use | JIS B0203 |
| UNF | Unified fine pitch thread | JIS B0208 |
| UNC | Unified coarse pitch thread | JIS B0206 |
| M | Metric fine pitch thread | JIS B0205 |
| M | Metric coarse pitch thread | JIS B0205 |
| NPT | American standard taper pipe threads for general use | ANSI/ASME B1.20.1 |
| NPS | American standard straight pipe threads for general use | |
| NPTF | Dryseal American standard taper pipe threads | ANSI/B1.20.3, 1.20.4 |
| NPSM | American standard straight pipe threads for free-fitting mechanical joints fixtures | |

# Low Pressure Hose Questionnaire

Please fill in the following questions and send by e-mail.
We will reply to you with a quotation by e-mail.

E-mail: firdaus@toyonakahot.co.jp

| | |
|---|---|
| Address | |
| Company name | |
| Department | |
| Name | |
| TEL | |
| FAX | |
| E-mail | |

Bulk hose reference Number:

Hose length: mm

Fitting material: □Stainless steel 304 □Iron □Brass
□Others( )

Type of fittings:

Maximum working pressure: MPa

Type of fluid:

Fluid temperature: °C

Environmental temperature: °C

Flow rate: L/min

Please write your requirements or questions.

# Insulated Steam Hose

## Features and Benefits

- Covered with a thick braided polyester
- Flexible and durable
- An additional air layer keeps surface temperature low
- Long life and easy handling

## Typical Applications

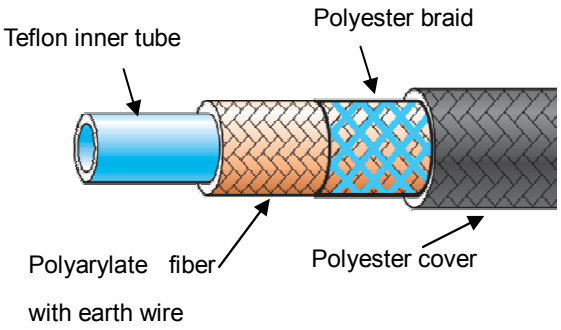
- Cleaning industry
- Garment factory
- Steam washing
- Mold temperature controller (oil & water)

## Typical Fluids Handled

- Steam
- High temperature water

## R400-03-HG

## for ironing



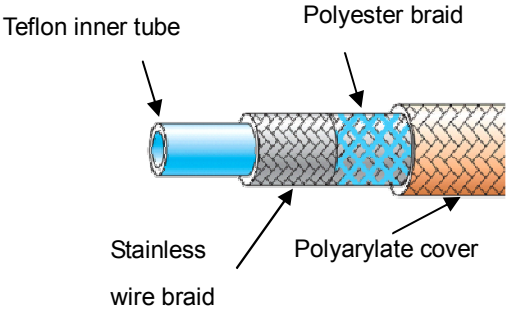

| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/2.5m) |
| R400-03-HG | 1/4 | 5 | 15 | 1 | 70 | 30 | 340 |

Operating temperature range: Max 200°C

## R410-HG

## for press machine

## for temperature control




| Bulk hose reference number | Port diameter | Inner diameter | Outer diameter | Maximum working pressure | Minimum burst pressure | Minimum bending radius | Reference weight |
|---|---|---|---|---|---|---|---|
| | (in) | (mm) | (mm) | (MPa) | (MPa) | (mm) | (g/0.7m) |
| R410-04-HG | 1/4 | 6 | 15.5 | 1 | 27 | 70 | 200 |
| R410-05-HG | 3/8 | 8 | 20 | 1 | 25 | 80 | 270 |
| R410-07-HG | 1/2 | 11 | 26 | 1 | 20 | 120 | 470 |

Operating temperature range: Max 200°C

## Standard threads

| | | |
|---|---|---|
| G(PF) | Japanese standard straight pipe threads for general use | JIS B0202 |
| R(PT) | Japanese standard taper pipe threads for general use | JIS B0203 |
| UNF | Unified fine pitch thread | JIS B0208 |
| UNC | Unified coarse pitch thread | JIS B0206 |
| M | Metric fine pitch thread | JIS B0205 |
| M | Metric coarse pitch thread | JIS B0205 |
| NPT | American standard taper pipe threads for general use | ANSI/ASME B1.20.1 |
| NPS | American standard straight pipe threads for general use | |
| NPTF | Dryseal American standard taper pipe threads | ANSI/B1.20.3, 1.20.4 |
| NPSM | American standard straight pipe threads for free-fitting mechanical joints fixtures | |

# Insulation Hose Questionnaire

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| | |
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Bulk hose reference Number:

Hose length: mm

Fitting material: □Stainless steel 304 □Iron □Brass
□Others( )

Type of fittings:

Maximum working pressure: MPa

Type of fluid:

Fluid temperature: °C

Environmental temperature: °C

Flow rate: L/min

Please write your requirements or questions.

# Company Profile

**Company Name:** TOYONAKA HOT LABORATORY CO., LTD.
**Year Established:** 1987
**Business Type:** Manufacturer
**Main Products:** Variety types of hoses and heaters
**Head Office:** Toyonaka-shi Osaka

**Main Factory:** Miyazaki

**Employee number:** 50
**Management Certification:** ISO9001:2008
**President:** Toshio Kawahara

**Operational Address:** 209, 4-6-15, Ohomoriminamimachi, Ohta-ku, Tokyo 143-0013, Japan
**TEL:**+81-3-5737-7221
**FAX:**+81-3-6423-9375
**E-Mail:**firdaus@toyonakahot.co.jp