## DF-3300

# Sanitary Fitting Ferrule type

**Structure** Butt welding a sanitary fitting and a tube.

ISO (IDF) standard, gas pipe size, and other categories can be selected.

Pipes for food, medicine.

Feature Small and light, easy for removal, maintenance, & inspection.

- Available NB
- 8A~200A 1.0S~6.5S
- Applicable Tubes

·Spiral Tube ·Fine Annular Tube Soft Tube

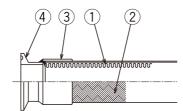
·One-Pitch Tube

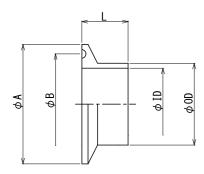
·Super One-Pitch Tube ·Fine Soft Tube

Besides the flexible metal hose, flexible hose made of resin

(PTFE, PFA, silicone, etc.) are also being produced,

■Braid and tube rings of SUS316 and SUS316L are also available. Please contact us for details.





Item	Name	Material
1	Tube	SUS304·SUS316L
2	Braid	SUS304·SUS316·SUS316L
3	Tube Ring	SUS304·SUS316·SUS316L
4	Ferrule	SUS304·SUS316L

#### Table 1, Welding type Ferrule: ISO(IDF) Standard

N.B.	OD	ID	А	В	L	Standard Tube ID
1.0 S	25.4	23.0	50.5	43.5	21.5	20A
1.25 S	31.8	29.4	50.5	43.5	21.5	25A
1.5 S	38.1	35.7	50.5	43.5	21.5	32A
2.0 S	50.8	47.8	64.0	56.5	21.5	40A
2.5 S	63.5	59.5	77.5	70.5	21.5	50A
3.0 S	76.3	72.3	91.0	83.5	21.5	65A
3.5 S	89.1	85.1	106.0	97.0	21.5	80A
4.0 S	101.6	97.6	119.0	110.0	28.0	100A
4.5 S	114.3	108.3	130.0	122.0	28.0	100A
5.5 S	139.8	133.8	155.0	146.0	28.0	125A
6.5 S	165.2	159.2	183.0	174.0	28.0	150A

\*The length varies depending on the manufacturers of ferrule fittings.

\*\*Tubes can be selected based on flow rates or limits of outer diameter. Please contact us for details.

### DF-3400

# Sanitary Fitting Male Thread type

Structure Butt welding a sanitary screw fitting and a tube. 5 4 3 1

Pipes for food, medicine.

Feature

Small and light, easy for removal, maintenance, & inspection,

Available NB 1.0S~4.0S

(The standard tube diameter is the same as Table 1. Welding-type ferrule: ISO (IDF) standard on p. 15.)

Applicable Tubes

·Spiral Tube

One-Pitch Tube Super One-Pitch Tube ·Fine Annular Tube ·Soft Tube

·Fine Soft Tube

Besides the flexible metal hose, flexible hose made of resin (PTFE, PFA, silicone, etc.) are also being produced.

■Braid and tube rings of SUS316 and SUS316L are also available. Please contact us for details.

Twwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww		·····	
	Item	Name	Material
	1	Tube	SUS304·SUS31

ltem	Name	Material			
1	Tube	SUS304·SUS316L			
2	Braid	SUS304·SUS316·SUS316L			
3	Tube Ring	SUS304·SUS316·SUS316L			
4	Pipe end	SUS304·SUS316L			
5	Male thead	SUS304·SUS316L			

### DF-3500

# Sanitary Fitting Hex Nut type

**Structure** Butt welding a sanitary hex nut fitting and a tube.

Pipes for food, medicine.

Feature

■ Small and light, easy for removal, maintenance, & inspection.

Available NB 1,0S~4,0S

(The standard tube diameter is the same as Table 1, Welding-type ferrule: ISO (IDF) standard on p. 15.)

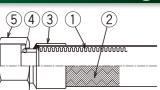
Applicable Tubes

·Spiral Tube

•One-Pitch Tube •Super One-Pitch Tube •Annular Tube

·Fine Annular Tube ·Soft Tube ·Fine Soft Tube Besides the flexible metal hose, flexible hose made of resin (PTFE, PFA, silicone, etc.) are also being produced.

■Braid and tube rings of SUS316 and SUS316L are also available. Please contact us for details.



Item	Name	Material		
1	Tube	SUS304·SUS316L		
2	Braid	SUS304·SUS316·SUS316L		
3	Tube Ring	SUS304·SUS316·SUS316L		
4	Liner	SUS304·SUS316L		
5	Hex Nut	SUS304		

## DF-3600

# Sanitary Fitting Grooved Round Nut type

**Structure** Butt welding a sanitary grooved round nut and a tube. (5)(4)(3)

Pipes for food, medicine.

Feature

I Small and light, easy for removal, maintenance, & inspection.

Available NB 1.0S~4.0S

(The standard tube diameter is the same as Table 1. Welding-type ferrule: ISO (IDF) standard on p. 15.)

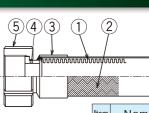
■ Applicable Tubes ·Spiral Tube

 One-Pitch Tube ·Super One-Pitch Tube ·Annular Tube

·Fine Soft Tube

·Fine Annular Tube ·Soft Tube Besides the flexible metal hose, flexible hose made of resin (PTFE, PFA, silicone, etc.) are also being produced.

Braid and tube rings of SUS316 and SUS316L are also available. Please contact us for details,



Item	Name	Material	
1	Tube	SUS304·SUS316L	
2	Braid	SUS304·SUS316·SUS316L	
3	Tube Ring	SUS304·SUS316·SUS316L	
4	Liner	SUS304·SUS316L	
5	Grooved Round Nut	SUS304	

### **DF-01**

## T-Tube

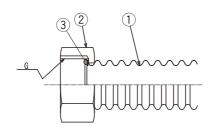
**Structure** • A cap nut is attached to a single-mound tube.

For water distribution and hot water distribution pipes of facility units, etc.

Feature The flexible bending allows easy installation even in narrow areas.

- Available NB 1/2B · 3/4B · 1B
- ■The cap nut can also be made with the material of BC6 and SUS304.
- Please specify the material of the gasket when placing an order.
- ■The operation temperature of standard gasket is -20°C to 60°C for EPDM, and -40°C to 100°C for non-asbestos.





#### **Tube Dimension**

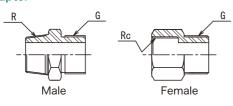
N.B.	Tube			Joint
IN.D.	I.D.	O.D.	Thick	Thread
1/2B	φ13.0	φ16.0	0.3mm	G 1/2
3/4B	φ16.5	φ20.0	0.3mm	G 3/4
1B	φ20.5	φ25.0	0.3mm	G 1

#### Caution

- \*Repeatedly bending the tube may cause problems, such as leakage. %Please do not bend the tube at the base of the cap nut.
- %Please do not exceed the smallest bending radius (three times the
- inner diameter of the tube) when bending the tube.

### **Tip Adaptor**

Item	Name	Material
1	Tube	SUS304·SUS316L
2	Cap Nut	C3604BD(Chrome Plated) · SUS304
3	Gasket (Packing)	EPDM(standard) · Non-asbestos, others



## %Please do not bend the tube at the base of the cap nut.

\*Please do not exceed the smallest bending radius (three times the inner diameter of the tube) when bending the tube.

\*Repeatedly bending the tube may cause problems, such as leakage.

### **DF-03**

## H-Tube with Braid

Structure

■ The outer surface of the tube is covered with braid made of SUS to protect the outer surface and prevent the tube from stretching.

Use

For water supply, hot water supply, fan coil units etc.

Joint

**Tube Dimension** 

1/2B

Caution

- Feature The flexible bending allows easy installation even in narrow areas.
- Available NB 1/2B · 3/4B · 1B
- The cap nut can also be made with the material of BC6 and SUS304.
- Please specify the material of the gasket when placing an order.
- ■The operation temperature of standard gasket is -20°C to 60°C for

#### EPDM, and -40°C to 100°C for non-asbestos.

Tube

I.D. O.D. Thick Thread

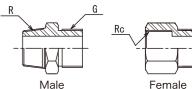
φ14.0 φ19.5 0.3mm G 1/2 3/4B φ19.0 φ25.0 0.3mm G 3/4 1B φ25.0 φ32.0 0.3mm G 1

## Tip Adaptor

N.B. Tube I.D.

13A(15A)  $\phi 11$ 

20A



Item	Name	Material
1	Tube	SUS316L
2	Cap Nut	BC6·SUS304
3	Clinch Ring	SUS304
4	Sleeve	C3604BD
5	Braid	SUS304
6	Gasket (Packing)	EPDM(standard)·Non-asbestos, others

## **DF-02**

## H-Tube

Structure A cap nut is attached on a single-mound tube, and a straight section is provided.

For water supply, hot water supply, low-pressure fan coil of facility units, etc.

Feature

- The tube is made of the material SUS316L, which provides excellent anti-corrosion properties.
- The flexible bending allows easy installation even in narrow areas.
- Available NB 1/2B · 3/4B · 1B ■The cap nut can also be made with the material of BC6 and SUS304.
- Please specify the material of the gasket when placing an order.
- ■The operation temperature of standard gasket is -20°C to 60°C for EPDM, and -40°C to 100°C for non-asbestos.

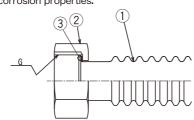


### **Tube Dimension**

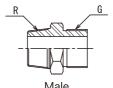
	Tube			Joint
N.B.	I.D.	O.D.	Thick	Thread
1/2B	φ14.0	φ19.5	0.3mm	G 1/2
3/4B	φ19.0	φ25.0	0.3mm	G 3/4
1B	φ25.0	φ32.0	0.3mm	G 1

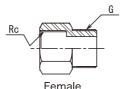
#### Caution

- \*Repeatedly bending the tube may cause problems, such as leakage.
- \*Please do not bend the tube at the base of the cap nut.
- %Please do not exceed the smallest bending radius (three times the inner diameter of the tube) when bending the tube.



### **Tip Adaptor**





Item	Name	Material
1	Tube	SUS316L
2	Cap Nut	C3604BD (Chrome Plated) · SUS304
3	Gasket (Packing)	EPDM (standard) · Non-asbestos, others

### **DF-04**

## **PURE FLEX Resin Hose**

- Bridged elastomer material is used for fluid contact portions.
- · Passed for pressure resistance test JIS S3200-1
- · Passed for exudation efficiency test JIS S3200-7
- Structure PP core material is lapped spirally on outer surface of bridged elastomer hose to improve flexibility.
  - Steel wire braid over the hose keeps pressure resistance. · Passed for pressure resistance test JIS S3200-6

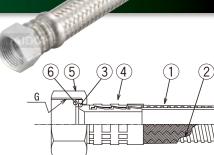
For water supply, hot water supply, unit bath, restroom, etc.

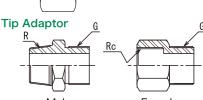
## Feature

- Excellent for easy piping work (softness of pipe).
- ▶ If the hose is bent, it will not be crushed, and fluid channel can always be maintained.
- Usable for water or hotwater supply.
- Bridged elastomer is adopted.
- ▶Free from rust or mould. No offensive smell particular to resin.
- Applicable range
- Temperature ··· 0°C~80°C max. (Maximum workable temperature, not usual working temperature.) **Tube Dimension** 
  - Pressure ··· 1.0MPaG max.
- Available NB 13A(15A) · 20A
- Please specify the material of the gasket when placing an order.
- ■The operation temperature of standard gasket is 80°C or bellow for non-asbestos.

### Caution

- \*Too much keen bending (smaller angle than 60R), repeated bending, elongation, and torsion will cause leakage. \*\*Please install the tube carefully to keep the outer braid free from contact to any object.
- (Once you find any break at the outer braid, please make replacement.)
- %Please give suitable protection to the tube where freezing is expected.
- \*Please pay caution to chloride detergent and corrosive atmosphere.





	IVIGIO	1 Citiale
	Name	Material
	Tube	Synthetic resin
	Braid	SUS304
	Sleeve	C3604BD·SUS304
Ī		

4 Press Cover SUS304

30

5 Cap Nut BC6·SUS304, others 6 Gasket (Packing) Non-asbestos (standard)

29