

Tube Fitting SUS316 Compression Fitting

Anti corrosive SUS316 Compression fitting.

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)



(1) SUS316 Compression Fitting

(2) Type

(3) Tube dia. ϕ D (O.D. x I.D.)

Code	mm size (mm)													inch size (inch)		
	0420	0425 ¹	0640	0850 ²	0860 ²	1065	1075	1080	1280	1290	1210	1611 ³	1613 ³	1/4	3/8	1/2
Tube O.D.	ø4	ø4	ø6	ø8	ø8	ø10	ø10	ø10	ø12	ø12	ø12	ø16	ø16	ø1/4	ø3/8	ø1/2
Tube I.D.	ø2	ø2.5	ø4	ø5	ø6	ø6.5	ø7.5	ø8	ø8	ø9	ø10	ø11	ø13	ø0.180	ø0.275	ø0.376
Cap nut	4		6	8		10			12			16		1/4	3/8	1/2
Disc spring washer	12		14	16		18			20			24		14	18	20

*1. Please order tube O.D. 4 mm size for inch size 5/32.

*2. Please order tube O.D. 8 mm size for inch size 5/16.

*3. Please order tube O.D. 16 mm size for inch size 5/8.

*4. To order Cap nut alone, please select the code from "Cap nut".

*5. To order Disc spring washer alone for Bulkhead type fitting, please select the code from "Disc spring washer". However, please select the code from (4) for the disc spring washer for Bulkhead socket type fitting (NSMFF).

(4) Thread size (R, Rc)

Code	British standard pipe thread tapered			
	01	02	03	04
Male thread size	R1/8	R1/4	R3/8	R1/2
Female thread size	Rc1/8	Rc1/4	Rc3/8	Rc1/2
Disc spring washer	14	18	22	27

* To order Disc spring washer alone for Bulkhead type fitting (NSMFF), please select the code from "Disc spring washer".

(5) Thread sealing spec. (Optional) (British standard pipe thread tapered only)

Code	No code	-TP
Thread sealing	Without Sealock No seal tape	Seal tape spec. (Seal tape is applied on thread part)

Characteristics

Compression fitting made of SUS316 with high resistance to corrosion.

Best suited for piping in a special environment in the market requiring airtightness (Medical, Semiconductor, Solar cell, Secondary battery, Food-related), as well as Chemical.

Inch tube size is available.

Various sizes and types

Tube size for Polyurethane tube is available.

* Available for Straight (NSC) and Elbow (NSL) type only.

Food Sanitation Act. (Japan) compliant.

* See page 6 for details.

Clean-room pkg.

Best suited for piping in clean environment.

The products are washed by clean air, then packed in ISO class 6 equivalent clean-room.

Specifications

Fluid medium	Air, Water (Conditional*), Other chemicals (Conditional*)
Max. operating pressure	Follow max. operating pressure of tube specifications
Max. vacuum	-100 kPa
Operating temp. range	Follow operating temp. range of tube specifications. (No freezing) *2

⚠ Warning

*1. The following conditions must be observed when the fluid medium is water or liquid.

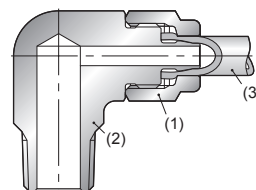
1. Surge pressure must be controlled lower than max. operating pressure when using water or liquid as a fluid medium.
2. General tap water in Japan, free from foreign substances or contamination, can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
3. As for chemicals, mixed gas, etc., they may vary depending on the conditions of use, so please check the compatibility of our specifications before use.

*2. The operating temperature range of the product conforms to the operating temperature range of the tube used, but there is a risk of damage if the unit is subjected to excessive strain when used at high temperatures.

*3. Due to the structure of the fitting, product performance will deteriorate when using a soft tube. Be sure to check the tube before use.

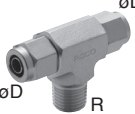
Sectional drawing

Elbow type : NSL



No.	Parts	Material
(1)	Cap nut	SUS316 (Fluorine coating)
(2)	Metallic body	SUS316
(3)	Tube	Various PISCO tubes can be used.

RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code NSCøD-R[5]	Type	Model code NSLøD-R[5]	Type	Model code NSBøD-R[5]
Straight NSC 	NSC0420-01[5]	Elbow NSL 	NSL0420-01[5]	Branch Tee NSB 	NSB0420-01[5]
	NSC0420-02[5]		NSL0420-02[5]		NSB0420-02[5]
	NSC0425-01[5]		NSL0425-01[5]		NSB0425-01[5]
	NSC0425-02[5]		NSL0425-02[5]		NSB0425-02[5]
	NSC0640-01[5]		NSL0640-01[5]		NSB0640-01[5]
	NSC0640-02[5]		NSL0640-02[5]		NSB0640-02[5]
	NSC0640-03[5]		NSL0640-03[5]		NSB0640-03[5]
	NSC0850-01[5]		NSL0850-01[5]		NSB0860-01[5]
	NSC0850-02[5]		NSL0850-02[5]		NSB0860-02[5]
	NSC0850-03[5]		NSL0850-03[5]		NSB0860-03[5]
	NSC0860-01[5]		NSL0860-01[5]		NSB1075-02[5]
	NSC0860-02[5]		NSL0860-02[5]		NSB1075-03[5]
	NSC0860-03[5]		NSL0860-03[5]		NSB1075-04[5]
	NSC1065-02[5]		NSL1065-02[5]		NSB1080-02[5]
	NSC1065-03[5]		NSL1065-03[5]		NSB1080-03[5]
	NSC1065-04[5]		NSL1065-04[5]		NSB1080-04[5]
	NSC1075-02[5]		NSL1075-02[5]		NSB1290-02[5]
	NSC1075-03[5]		NSL1075-03[5]		NSB1290-03[5]
	NSC1075-04[5]		NSL1075-04[5]		NSB1290-04[5]
	NSC1080-02[5]		NSL1080-02[5]		NSB1210-02[5]
	NSC1080-03[5]		NSL1080-03[5]		NSB1210-03[5]
	NSC1080-04[5]		NSL1080-04[5]		NSB1210-04[5]
	NSC1280-02[5]		NSL1280-02[5]		NSB1613-03[5]
	NSC1280-03[5]		NSL1280-03[5]		NSB1613-04[5]
	NSC1280-04[5]		NSL1280-04[5]	Run Tee NSD 	Type Model code NSDøD-R[5]
	NSC1290-02[5]		NSL1290-02[5]		
	NSC1290-03[5]		NSL1290-03[5]		NSD0420-01[5]
	NSC1290-04[5]		NSL1290-04[5]		NSD0420-02[5]
	NSC1210-02[5]		NSL1210-02[5]		NSD0425-01[5]
	NSC1210-03[5]		NSL1210-03[5]		NSD0425-02[5]
	NSC1210-04[5]		NSL1210-04[5]		NSD0640-01[5]
	NSC1611-03[5]		NSL1611-03[5]		NSD0640-02[5]
	NSC1611-04[5]		NSL1611-04[5]		NSD0640-03[5]
	NSC1613-03[5]		NSL1613-03[5]		NSD0860-01[5]
	NSC1613-04[5]		NSL1613-04[5]		NSD0860-02[5]
	NSC1/4-01[5]		NSL1/4-01[5]		NSD0860-03[5]
	NSC1/4-02[5]		NSL1/4-02[5]		NSD1075-02[5]
	NSC1/4-03[5]		NSL1/4-03[5]		NSD1075-03[5]
	NSC3/8-02[5]		NSL3/8-02[5]		NSD1075-04[5]
	NSC3/8-03[5]		NSL3/8-03[5]		NSD1080-02[5]
	NSC3/8-04[5]		NSL3/8-04[5]		NSD1080-03[5]
	NSC1/2-02[5]		NSL1/2-02[5]		NSD1080-04[5]
	NSC1/2-03[5]		NSL1/2-03[5]		NSD1290-02[5]
	NSC1/2-04[5]		NSL1/2-04[5]		NSD1290-03[5]
					NSD1290-04[5]
					NSD1210-02[5]
					NSD1210-03[5]
					NSD1210-04[5]
					NSD1613-03[5]
					NSD1613-04[5]
Type	Model code NSUøD	Type	Model code NSVøD		
Union Straight NSU 	NSU0420	Union Elbow NSV 	NSV0420		
	NSU0425		NSV0425		
	NSU0640		NSV0640		
	NSU0860		NSV0860		
	NSU1075		NSV1075		
	NSU1080		NSV1080		
	NSU1290		NSV1290		
	NSU1210		NSV1210		
	NSU1613		NSV1613		

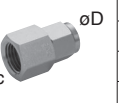
CAD data is available
at PISCO website.Packaging specifications
1 pc. /bag

Standard Optional

Code	[5] : -TP
Specifications	Seal tape on thread (Fill in [5] with "-TP")

Tube Fitting SUS316 Compression Fitting

RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code NSEøD	Type	Model code NSMFøD-Rc	Type	Model code NSCFøD-Rc
Union Tee NSE 	NSE0420	Bulkhead Female Straight NSMF 	NSMF0420-01	Female Straight NSCF 	NSCF0420-01
	NSE0425		NSMF0420-02		NSCF0420-02
	NSE0640		NSMF0425-01		NSCF0425-01
	NSE0860		NSMF0425-02		NSCF0425-02
	NSE1075		NSMF0640-01		NSCF0640-01
	NSE1080		NSMF0640-02		NSCF0640-02
	NSE1290		NSMF0640-03		NSCF0640-03
	NSE1210		NSMF0860-01		NSCF0860-01
	NSE1613		NSMF0860-02		NSCF0860-02
	NSE ¹ / ₄		NSMF0860-03		NSCF0860-03
	NSE ³ / ₈		NSMF1075-01		NSCF1075-01
	NSE ¹ / ₂		NSMF1075-02		NSCF1075-02
			NSMF1075-03		NSCF1075-03
			NSMF1075-04		NSCF1075-04
Type	Model code NSMCøD-R [5]		NSMF1080-01		NSCF1080-01
Bulkhead Straight NSMC 	NSMC0420-01 [5]		NSMF1080-02		NSCF1080-02
	NSMC0420-02 [5]		NSMF1080-03		NSCF1080-03
	NSMC0425-01 [5]		NSMF1080-04		NSCF1080-04
	NSMC0425-02 [5]		NSMF1290-02		NSCF1290-02
	NSMC0640-01 [5]		NSMF1290-03		NSCF1290-03
	NSMC0640-02 [5]		NSMF1290-04		NSCF1290-04
	NSMC0640-03 [5]		NSMF1210-02		NSCF1210-02
	NSMC0860-01 [5]		NSMF1210-03		NSCF1210-03
	NSMC0860-02 [5]		NSMF1210-04		NSCF1210-04
	NSMC0860-03 [5]		NSMF1613-03		NSCF1613-03
	NSMC1075-01 [5]		NSMF1613-04		NSCF1613-04
	NSMC1075-02 [5]		NSMF ¹ / ₄ -01		NSCF ¹ / ₄ -01
	NSMC1075-03 [5]		NSMF ¹ / ₄ -02		NSCF ¹ / ₄ -02
	NSMC1075-04 [5]		NSMF ¹ / ₄ -03		NSCF ¹ / ₄ -03
	NSMC1080-01 [5]		NSMF ³ / ₈ -01		NSCF ³ / ₈ -01
	NSMC1080-02 [5]		NSMF ³ / ₈ -02		NSCF ³ / ₈ -02
	NSMC1080-03 [5]		NSMF ³ / ₈ -03		NSCF ³ / ₈ -03
	NSMC1080-04 [5]		NSMF ³ / ₈ -04		NSCF ³ / ₈ -04
	NSMC1290-02 [5]		NSMF ¹ / ₂ -02		NSCF ¹ / ₂ -02
	NSMC1290-03 [5]		NSMF ¹ / ₂ -03		NSCF ¹ / ₂ -03
	NSMC1290-04 [5]		NSMF ¹ / ₂ -04		NSCF ¹ / ₂ -04
	NSMC1210-02 [5]				
	NSMC1210-03 [5]				
	NSMC1210-04 [5]				
	NSMC1613-03 [5]				
	NSMC1613-04 [5]				
Type	Model code NSMøD	Type	Model code NSMFF Rc	Type	Model code NSNøD
Bulkhead Union Straight NSM 	NSM0420	Bulkhead Socket NSMFF 	NSMFF01	Cap Nut NSN 	NSN4
	NSM0425		NSMFF02		NSN6
	NSM0640		NSMFF03		NSN8
	NSM0860		NSMFF04		NSN10
	NSM1075	Disc Spring Washer for Bulkhead Type NSP 			NSN12
	NSM1080				NSN16
	NSM1290				NSN ¹ / ₄
	NSM1210				NSN ³ / ₈
	NSM1613				NSN ¹ / ₂
Type	Model code NSPøA				
	NSP12				
	NSP14				
	NSP16				
	NSP18				
	NSP20				
	NSP22				
	NSP24				
	NSP27				



CAD data is available
at PISCO website.



Packaging specifications

1 pc. /bag
1 Set (2 pcs. / bag): Disc spring washer



Options

Code	[5] : -TP
Specifications	Seal tape on thread (Fill in [5] with "-TP")

■ How to install and remove

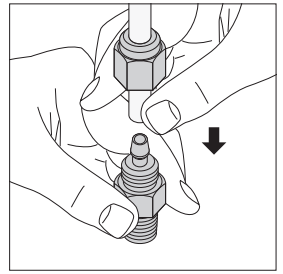
1. How to insert and disconnect tubes

(1) Tube insertion

For SUS316 Compression Fitting, pass the tube through the cap nut and insert it up to the barb end. Then, use a wrench to tighten the outer hexagonal-column of the cap nut through which the tube has been passed. When tightening the cap nut, refer to the tightening torque in SUS316 Compression Fitting Detailed Safety Instructions on PISCO website. (<https://www.pisco.co.jp/en/product/a/a04/>).

Hold the tube when tightening the cap nut, since the tube may rotate along with the cap nut. When tightening the cap nut, check that the cap nut hits the metal body. If not, disconnect the tube and remove the cap nut and start over again.

Make sure that there is no leakage after tightening the cap nut.

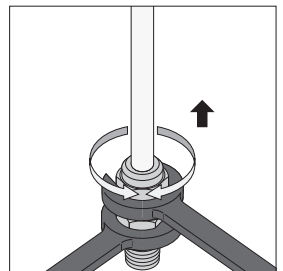


(2) Tube disconnection

Use a wrench on the outer hexagonal-column to remove the cap nut.

Then, disconnect the tube.

Make sure to stop the fluid (air, water, etc.) before the disconnection.



2. How to tighten threads

(1) Thread tightening

Use a wrench to tighten the outer hexagonal-column or square body part.

Also, because no Sealock coating is applied on the taper pipe thread type, use seal tape or sealant as needed. (See the digital catalog on PISCO website for details.)

When tightening, refer to “Table 2. Tightening Torque, Sealock Color, and Gasket Material” in “10. Precautions for installing product” of the “Common Safety Instructions for Fittings” on PISCO website. (<https://www.pisco.co.jp/en/product/a/cautions/>)

