

All Brass Compression Fitting

Brass made compression fitting for use in environments of high heat, spatter resistance, and die temperature control.

⚠ 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) All Brass Compression Fitting

(2) Type

(3) Tube dia. (øD)

Code	0425	0640	0850	0860	1065	1075	1280	1290	1611	1613
Tube O.D. (mm)	ø4	ø6	ø8	ø8	ø10	ø10	ø12	ø12	ø16	ø16
Tube I.D. (mm)	ø2.5	ø4	ø5	ø6	ø6.5	ø7.5	ø8	ø9	ø11	ø13
Identification groove	×	×	✓	×	✓	×	✓	×	✓	×
Connection with Polyurethane tube	✓	✓	✓		✓		✓		✓	
Connection with Nylon tube	✓	✓		✓		✓		✓		✓
Code for Cap nut	4	6	8		10		12		16	

*See the sectional drawing below for the identification groove.

(4) Thread size (R, Rc)

Code	Taper pipe thread			
	01	02	03	04
Male thread	R1/8	R1/4	R3/8	R1/2
Female thread	Rc1/8	Rc1/4	Rc3/8	Rc1/2

*Blank for Cap Nut only.

Characteristics

- Suitable for automobile industry and thermal control for mold tooling.
- By using special brass in the main metal body, this product line has achieved high water corrosivity.
- This product line does not require connecting sleeve, therefore, no more need to worry about installing or missing sleeves.
- A wide range of choices for a wide range of applications.

5 types are available: C (Straight), CF (Female straight), MF (Bulkhead female straight), L (Elbow), E (Union Tee).

10 tube sizes are available: tube O.D. 4 mm to O.D.16 mm

Specifications

Fluid medium	Air, Water (Conditional* ¹), Other chemicals (Conditional* ¹)
Max. operating pressure	Follow max. operating pressure of tube specifications
Max. vacuum	-101.3 kPa
Operating temp. range	Follows the operating temperature range of the tubing.(no freezing)

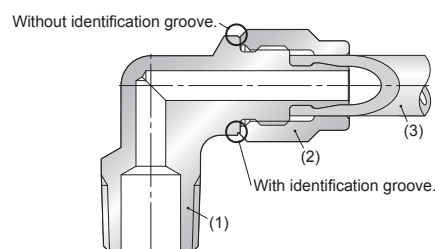
⚠ Warning

*1. Make sure to follow the instructions below 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. For fluids medium other than air or water, check the suitability of our specifications before use, as they may differ depending on the operating conditions.
- *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. Because of the fitting's structure, the performance decreases if soft tube is inserted. Be sure to confirm the practical effect with a using tube before actual operation.

Sectional drawing

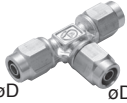
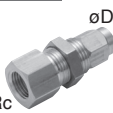
Elbow type: NKL



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

All Brass Compression Fitting

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

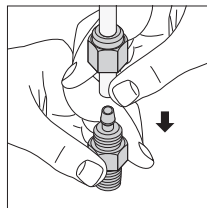
Type	Model code NKCøD-R	Type	Model code NKLøD-R	Type	Model code NKEøD
Straight NKC 	NKC0425-01	Elbow NKL 	NKL0425-01	Union Tee NKE 	NKE0425
	NKC0425-02		NKL0425-02		NKE0640
	NKC0640-01		NKL0640-01		NKE0850
	NKC0640-02		NKL0640-02		NKE0860
	NKC0640-03		NKL0640-03		NKE1065
	NKC0850-01		NKL0850-01		NKE1075
	NKC0850-02		NKL0850-02		NKE1280
	NKC0850-03		NKL0850-03		NKE1290
	NKC0860-01		NKL0860-01	Cap Nut NKN 	Type Model code NKNøD
	NKC0860-02		NKL0860-02		
	NKC0860-03		NKL0860-03	CAD 2D 3D CAD data is available at PISCO website.	NKN4
	NKC1065-02		NKL1065-02		NKN6
	NKC1065-03		NKL1065-03		NKN8
	NKC1065-04		NKL1065-04		NKN10
	NKC1075-02		NKL1075-02		NKN12
	NKC1075-03		NKL1075-03		NKN16
	NKC1075-04		NKL1075-04		
	NKC1280-02		NKL1280-02		
	NKC1280-03		NKL1280-03		
	NKC1280-04		NKL1280-04		
	NKC1290-02		NKL1290-02		
	NKC1290-03		NKL1290-03		
	NKC1290-04		NKL1290-04		
	NKC1611-03		NKL1611-03		
	NKC1611-04		NKL1611-04		
	NKC1613-03		NKL1613-03		
	NKC1613-04		NKL1613-04		
Type	Model code NKCFøD-Rc	Type	Model code NKMFøD-Rc	Package 10 pcs. /bag Packaging specifications	
Female Straight NKCF 	NKCF0425-01	Bulkhead Female Straight NKMF 	NKMF0425-01		
	NKCF0425-02		NKMF0425-02		
	NKCF0640-01		NKMF0640-01		
	NKCF0640-02		NKMF0640-02		
	NKCF0640-03		NKMF0640-03		
	NKCF0850-01		NKMF0850-01		
	NKCF0850-02		NKMF0850-02		
	NKCF0850-03		NKMF0850-03		
	NKCF0860-01		NKMF0860-01		
	NKCF0860-02		NKMF0860-02		
	NKCF0860-03		NKMF0860-03		
	NKCF1065-02		NKMF1065-02		
	NKCF1065-03		NKMF1065-03		
	NKCF1065-04		NKMF1065-04		
	NKCF1075-02		NKMF1075-02		
	NKCF1075-03		NKMF1075-03		
	NKCF1075-04		NKMF1075-04		
	NKCF1280-02		NKMF1280-02		
	NKCF1280-03		NKMF1280-03		
	NKCF1280-04		NKMF1280-04		
	NKCF1290-02		NKMF1290-02		
	NKCF1290-03		NKMF1290-03		
	NKCF1290-04		NKMF1290-04		

■ How to install and remove

1. How to insert and disconnect tubes

(1) Tube insertion

For All Brass 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 the table below. 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.



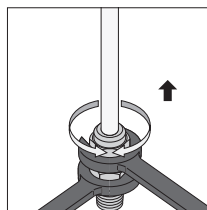
● Table. Cap Nut Tightening Torque

Tube O.D.	Tightening Torque
ø4 mm	1 N·m
ø6 mm	2 N·m
ø8 mm	3 N·m
ø10 mm	4 N·m
ø12 mm	5 N·m
ø16 mm	14 N·m

(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 the table below.

● Table. Thread Tightening Torque

Thread size	Tightening Torque
R1/8	4 to 5 N·m
R1/4	5 to 6 N·m
R3/8	13 to 15 N·m
R1/2	16 to 18 N·m

