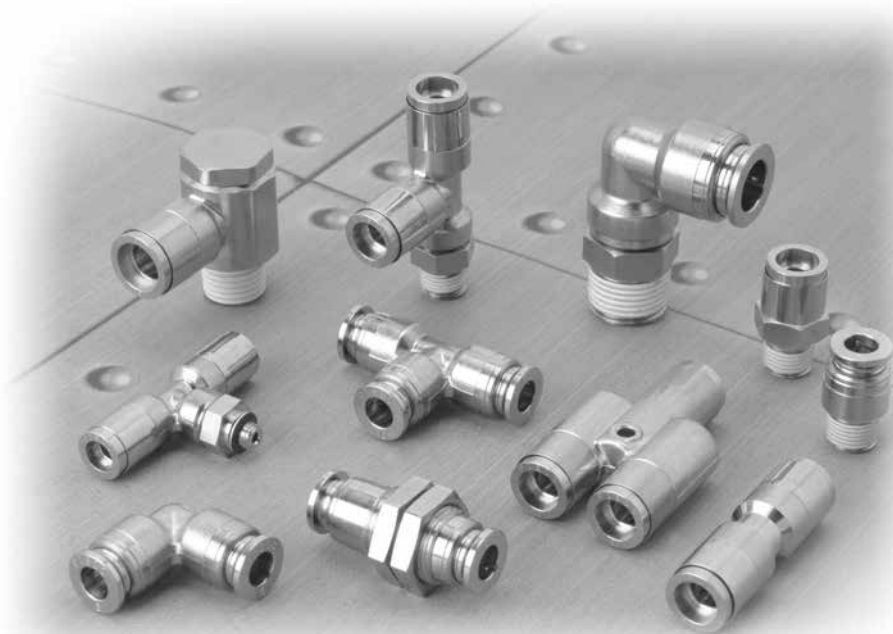


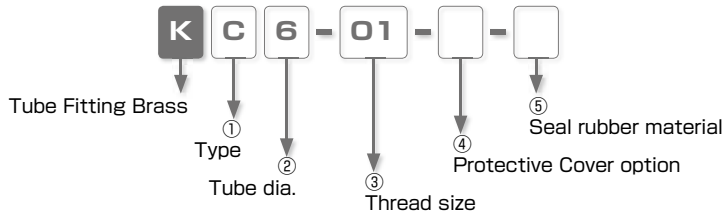


Brass Push-In Fitting Type for Spatter-Proof Tube Fitting **Brass Series**

- *HNBR, FKM, NBR for Seal Rubber Selection*
- *Resistant to Flame and Weld Spatter*
- *Superior in Flame-Retardant and Spatter-Proof by its Brass Made Release-Ring*
- *Avoiding Spatter and Dusts by Protective Cover*
- *Optional Release-Ring Cover "CS" prevents Tiny Sparks from penetrating into Fitting*
Optional release-ring cover keeps tiny sparks away from penetrating through the gap between release-ring and tube.



Model Designation (Example)



① Type

Code	Type	Code	Type	Code	Type	Code	Type
C	Straight	OC	Inner Hex. Straight	L	Elbow	B	Branch Tee
D	Run Tee	H	Single Banjo	U	Union Straight	V	Union Elbow
E	Union Tee	Y	Union Y	M	Bulkhead Union		

② Tube dia.

Tube dia.	mm size				
Code	4	6	8	10	12
Size (mm)	ø4	ø6	ø8	ø10	ø12

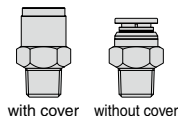
③ Thread size

Thread size	Metric thread (mm)	Taper pipe thread			
Code	M5	01	02	03	04
Size	M5 × 0.8	R1/8	R1/4	R3/8	R1/2

④ Protective Cover option

No code : with cover

1 : without cover



⑤ Seal rubber material

No code : HNBR

F : FKM (option)

N : NBR (option)

Specifications

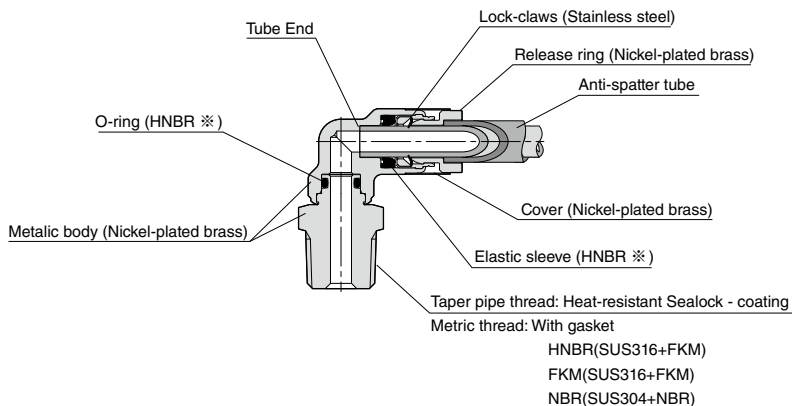
Fluid medium	Air / Water (※)
Max. operating pressure	1.0MPa
Max. vacuum	-100kPa
Operating temp. range	HNBR : 0 ~ 100℃, FKM : 0 ~ 120℃, NBR : 0 ~ 60℃ (No freezing)

⚠ Warning

※ . Make sure to follow the instructions below when the fluid medium is water.

1. Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium.
2. Be sure to place Insert Ring into the tube edge when using water as a fluid medium. There is a possibility to cause the escape of tube and a fluid leakage without Insert Ring.

Construction (Elbow: KL HNBR with cover)



※. FKM when selecting "F" for Seal rubber material, NBR when selecting "N".

△ Detailed Safety Instructions

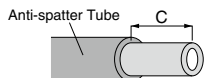
Before using PISCO products, be sure to read "Safety Instructions" and "Safety Instruction Manual" on page 23 to 27 and "Common Safety Instructions for Fittings" on page 33 to 35.

Warning

1. When the fluid medium is water, do not use Tube Fitting Brass series unless the operating environment meets all the described specifications in the catalog. Otherwise, it may cause damage to the products, the escape of tubes and a fluid leakage.
2. Tube fitting Brass Series has seal rubber material options, but there is no way to identify between each material. Store each product properly not to mix up, after opening their packages.
3. Thread body of some types in Tube Fitting Brass series is rotatable. Do not rotate and swing it by force or continuously. It may cause damage to the products and a fluid leakage.
4. Select seal rubber material considering sufficient margin to the operating temperature range. Seal rubber material can be worn out by heat and may cause a fluid leakage. Perform maintenance periodically and in case leaks are found, replace the product to the new one promptly.

Caution

1. When using Anti-spatter Tube, peel the cover as the following table shows. It may cause the escape of a tube, a fluid leakage or make it impossible to insert the tube into Push-In Fitting, if the tube is not peeled properly.



Tube dia.	Ø 4mm	Ø 6mm	Ø 8mm	Ø 10mm	Ø 12mm
Peeled length (C)	15mm	16mm	17mm	19.5mm	23mm



Standard Size List

Connection: Thread ⇄ Tube

Type	Page	Thread size	Tube O.D. (mm)				
			4	6	8	10	12
KC Straight	P217	M5 × 0.8	●	●	●	●	●
		R1/8	●	●	●	●	●
		R1/4	●	●	●	●	●
		R3/8	●	●	●	●	●
		R1/2	●	●	●	●	●
KOC Inner Hex. Straight	P219	M5 × 0.8	●	●	●	●	●
		R1/8	●	●	●	●	●
		R1/4	●	●	●	●	●
		R3/8	●	●	●	●	●
		R1/2	●	●	●	●	●
KL Elbow	P221	M5 × 0.8	●	●	●	●	●
		R1/8	●	●	●	●	●
		R1/4	●	●	●	●	●
		R3/8	●	●	●	●	●
		R1/2	●	●	●	●	●

Type	Page	Thread size	Tube O.D. (mm)				
			4	6	8	10	12
KB Branch Tee	P223	M5 × 0.8	●	●	●	●	●
		R1/8	●	●	●	●	●
		R1/4	●	●	●	●	●
		R3/8	●	●	●	●	●
		R1/2	●	●	●	●	●
KD Run Tee	P225	M5 × 0.8	●	●	●	●	●
		R1/8	●	●	●	●	●
		R1/4	●	●	●	●	●
		R3/8	●	●	●	●	●
		R1/2	●	●	●	●	●
KH Single Banjo	P227	M5 × 0.8	●	●	●	●	●
		R1/8	●	●	●	●	●
		R1/4	●	●	●	●	●
		R3/8	●	●	●	●	●
		R1/2	●	●	●	●	●

Connection: Tube ⇄ Tube (Equal dia.)

Type	Page	Tube O.D. (mm)				
		4	6	8	10	12
KU Union Straight	P229	●	●	●	●	●
KV Union Elbow	P230	●	●	●	●	●
KE Union Tee	P231	●	●	●	●	●

Type	Page	Tube O.D. (mm)				
		4	6	8	10	12
KM Bulkhead Union	P232	●	●	●	●	●
KY Union Y	P233	●	●	●	●	●

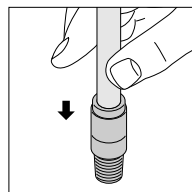
How to insert and disconnect

1. How to insert and disconnect tubes

① Tube insertion

Insert a tube into Push-In Fitting Brass series up to the tube end. Lock-claws bite the tube and fix it automatically, then the elastic sleeve seals around the tube.

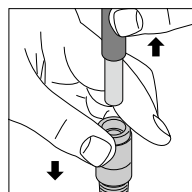
Refer to "2. Instructions for Tube Insertion" under "Common Safety Instructions for Fittings".



② Tube disconnection

The tube is disconnected by pushing release-ring to release Lock-claws.

Make sure to stop air supply before the tube disconnection.

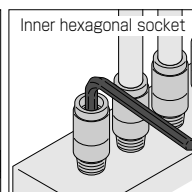
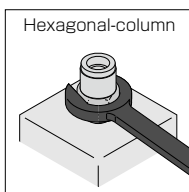


2. How to tighten thread

① Tightening thread

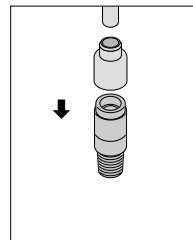
There are two ways to tighten thread. Use a spanner or an impact wrench for a hexagonal-column. A hex key is for an inner hexagonal socket. Inner hex type can save spaces.

Refer to "Table 2: Recommended tightening torque / Sealock color / Gasket materials" under "4. Instructions for Installing a fitting" in "Common Safety Instructions for Fittings".



3. How to install Release-ring cover

Attach the cover on release-ring of Brass Series and insert a tube.



FITTING

CONTROLLER

VALVE

TUBE

MADE-TO-ORDER
PRODUCTS

216

Anti-spatter
& Brass Series

On Temperature
Control

Minimal
Series

Stop Fitting
Series

Rotary
Series

Twist-Proof
Fitting

Block and
Connector

Coupling

Color
Cap

■ Applicable Tube and Related Products

Anti-spatter Tube.....P.646

Tube Fitting Anti-spatter Series.....P.204

Speed Controller Anti-spatter.....P.422

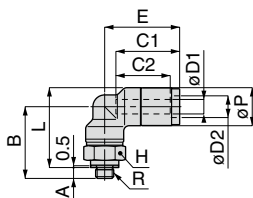
Speed Controller Brass.....P.430

Throttle (Needle) Valve Brass.....P.474

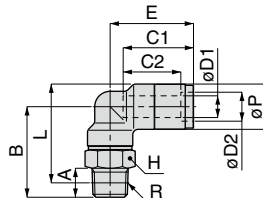
KL Elbow

RoHS compliant

OP
P.754



Metric thread



Taper pipe thread

Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	R	A	B	L	øP	Tube end C1	Tube end C2	E	Hex. H	Orifice dia.	Weight (g)	Effective area (mm²)
KL4-M5-□	4	6	M5×0.8	3	19.8	22	10.5	17.6	15	20.7	10	1.8	18	1.5
KL4-01-□			R1/8	8	22.8	24.1					2.5	21	3.5	
KL4-02-□			R1/4	11	25.8	25						31		
KL6-M5-□	6	8	M5×0.8	3	22	25.3	12.5	19.4	16	23	12	1.8	26	1.9
KL6-01-□			R1/8	8	25	27.3					14	4	28	9
KL6-02-□			R1/4	11	28	28.2							36	
KL6-03-□			R3/8	12	29.8	29.7							49	
KL8-01-□	8	10	R1/8	8	28	31.3	14.5	20.2	17	24.8	14	6	36	16
KL8-02-□			R1/4	11	31	32.2					41			
KL8-03-□			R3/8	12	32.8	33.7					55			
KL10-01-□	10	12	R1/8	8	32.5	37.8	18.6	23.2	19.5	29.3	17	6	67	22.5
KL10-02-□			R1/4	11	35.5	38.8						8	69	30
KL10-03-□			R3/8	12	38.5	39.5							78	
KL10-04-□			R1/2	15	39.5	40.6							22	
KL12-02-□	12	14	R1/4	11	37.5	42.3	21.6	26.3	23	33.4	21	8	107	38
KL12-03-□			R3/8	12	38.5	43					22	9	113	39
KL12-04-□			R1/2	15	41.5	44.1							129	

※ 1. "L" is a reference value for height dimension after tightening taper thread.

※ 2. □ in Model code / Replaced with "N"(NBR), or "F"(FKM) for Seal rubber material change