

Tube Fitting Long

Built-in type of Push-in fitting for die temperature control

⚠ Safety instructions for this product

For Safety instructions, Common safety instructions for products in this catalog, and Detailed safety instructions for the product in this page, make sure to check our Website.

Model Designation (Example)



(1) Tube Fitting

(2) Type

OC: Inner Hex. Straight

(3) Tube dia. (øD)

Code	8
Tube O.D. (mm)	ø8

(4) Thread size(R)

Code	01	02
Thread size	R1/8	R1/4

(5) Total length

Code	L40	L50	L60	L70	L80	L90	L100	L110
Total Length (mm)	40	50	60	70	80	90	100	110

*The actual total length is a little longer than the length above.

Characteristics

8 lengths are available.

Suitable for a narrow or limited space.

The tube fitting, provided with a hexagonal hole, can be easily installed using a hex key.

Specifications

Fluid medium	Air, Water (Conditional*)
Max. operating pressure	1.0 MPa
Max. vacuum	-100 kPa
Operating temp. range	0 to 60°C (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. 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. Be sure to use Insert Ring (WR) when using water or liquid as a fluid medium.

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

Type	Model code POCøD-R- <u>5</u>	L	øP	A
Inner Hex. Straight POC 	POC8-01-L40	44.5	11	8
	POC8-01-L50	54.5	11	8
	POC8-01-L60	64.5	11	8
	POC8-01-L70	74.5	11	8
	POC8-01-L80	84.5	11	8
	POC8-01-L90	94.5	11	8
	POC8-01-L100	104.5	11	8
	POC8-01-L110	114.5	11	8
	POC8-02-L50	52.5	—	11
	POC8-02-L60	62.5	—	11
	POC8-02-L70	72.5	—	11
	POC8-02-L80	82.5	—	11



Notes

*"L" is a reference value for height dimension after tightening thread.



CAD data is available
at PISCO website.



Packaging specifications
10 pcs. /bag



Special product optional (details ▶ P.893)

- Seal rubber material options: FKM, EPDM or HNBR
- Oil-free
- Copper free spec.
- Release-ring color change (Red)

▶ Contact us for the price.



Make to Order Production

Order Production Index

Based on the standard products, "Special specification option" on parts for matching operating environment or "Special appearance option" for matching a color for operating environment can be selected and ordered by just adding prearranged extension code of options.

*PISCO welcomes an inquiry of custom-made product, which is not listed in this catalog.
Please feel free to contact nearest PISCO office.

PISCO flexibly corresponds to non standard products that meet the needs of our customers.



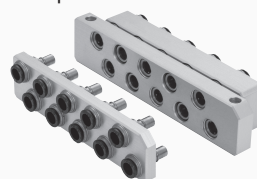
Visit PISCO web site for video about Non-standard products.
<https://www.pisco.co.jp/en/product/special/>



Tube penetration type
Tube Fitting



Tube Fitting unequal
port combinations



Multiple Coupling



Bulk Packaging (Tube Fitting,
Control, Vacuum Pad)

G thread spec.



Fittings with mm size tube diameter and parallel pipe thread are available.
Contact us for inquiry.

● Applicable model

Fitting Tube Fitting, Tube Fitting Mini



Inch NPT spec.



● Applicable model

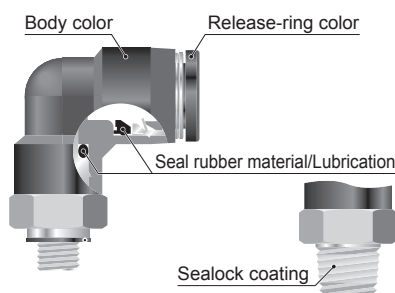
Fitting Tube Fitting, Tube Fitting Mini, Die Temperature Control Fitting, Rotary Joint, High Rotary Joint, Connector, Light Coupling

Control Speed Controller, Speed Controller Large-flow type, Orifice Flow Speed Controller, Throttle (Needle) Valve, Quick Exhaust Valve, Orifice Fitting, Pressure Regulator Push-lock type, Pressure Controller, Check Valve, Pressure Gauge

Valve Change Valve, Hand Valve, Ball Valve, Mechanical Valve



Special options



▶ Color option

Light-gray color option for resin body and release-ring.

▶ Seal rubber material option

Seal Rubber Selection: FKM, EPDM or HNBR.

▶ Oil-free option

Assembled without intentional use of oil, oil contamination into fluid medium can be prevented.

▶ ~~Non-purple option~~

~~Restraining generation of Cu ion or Fe ion from the product.~~

~~With this option, Check Valve and Stop Fitting, etc. do not have marking on the body parts. Please refer to the piping.~~

▶ Release-ring color option

Changeable to Red Color

Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

Model Designation (Example)

PL6-01 (1) **W** (2) **-F** (3) **-D** (4) (5)

(1) **Model code** (See the next page for available products.)

(2) **Body color** (Resin body color)

Code	W	No code
Color	Light gray	Standard

*When light-gray (W) is selected for body color, the metric (mm) size release-ring color is light-gray even for combination with any other options (except when red release-ring is specified). The color of release-ring of inch tube dia. is always white.

(3) **Seal rubber material**

Code	-F	-E	-HN	No code
Material	FKM	EPDM (Oil-free)	HNBR	Standard seal rubber

*1. For FKM (-F) specification, the color of metric (mm) size release-ring is brown, while inch tube dia. is white. FKM (-F) specification is not available with non-purple (-P) specification.

*2. For EPDM (-E) specification, the product is assembled as oil-free specification. The color of metric (mm) release-ring is yellow.

*3. EPDM (-E) specification can not be selected for the products with M3 or M6 threads or with inch tube dia.

(4) **Lubrication**

Code	-D	-P	No code
Option	Oil-free	Non-purple	Standard

*1. The metric (mm) size release-ring color of oil-free (-D) specification is yellow, while inch tube dia. is white.

*2. The product with oil-free (-D) specification is assembled without intentional use of lubrication in standard process. Therefore the problem of reducing airtightness or increasing frictions of rubber parts may be resulted.

~~*3. Non-purple (-P) option is not available with seal rubber material FKM. Also Seal lock coating for Non-purple option.~~

Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

(5) **Release-ring color**

Code	-RR	No code
Color	Red	Standard

Reference Chart of Special Options

○: Available, ×: Not available

Product series	Standard specification						Special specification								
	Body color and Packaging/ Cleaning option	Resin body color	Release-ring color	Seal rubber material	Lubrication	Thread sealing	(1)	(2)			(3)		(4)		
							Body color	Seal rubber material			Lubrication	Release-ring color			
							Light gray W ^{*1}	FKM -F ^{*2}	EPDM -E ^{*3}	HNBR -HN	Oil-free option -D ^{*4}	Non-purple -P ^{*5}	Red -RR		
Tube fitting	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5}	○	○	○	○	○		
	Light gray	Light gray	Light gray				Standard spec.	○	○ ^{*6}		○	○		×	×
	Clean-room pkg.	Light gray	Light blue				×	○	○ ^{*6}		○	○			
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.	○	○		○				
	Clean wash + Clean-room pkg.	Light gray	Light blue				Oil-free option	×	×		○ ^{*6}	Standard spec.			
Tube fitting Mini	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5,*10}	○ ^{*10}	○ ^{*10}	○	○	○		
	Light gray	Light gray	Light gray				Standard spec.	○	○ ^{*6,*10}		○ ^{*6}	×		×	
	Clean-room pkg.	Light gray	Light blue				×	○ ^{*10}	○ ^{*6,*10}		○	○			
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.	○ ^{*10}	○ ^{*10}		○	×			
Tube Fitting SUS304	Standard	Black	Dark blue	FKM	Turbin oil	Sealock coating	×	Standard spec.	○ ^{*7}	○	○ ^{*7}	×	△ ^{*17}		
Tube Fitting Stainless SUS303 equivalent corrosivity	Standard	Black	Dark blue	HNBR	Turbin oil	Sealock coating	○	○	○ ^{*7,*15}	Standard spec.	○ ^{*7}	○	○		
	Clean wash + Clean-room pkg.	Black	Dark blue		Oil-free option		×	×	○ ^{*7,*15}		Standard spec.	×			
Tube Fitting Anti-static	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○	○ ^{*8}	○	○ ^{*8}	○	△ ^{*17}		
Tube fitting Brass	Standard	—	—	HNBR	Turbin oil	Sealock coating	×	—	×	Standard spec.	○	○	×		
FKM				Standard spec.				—							
Tube fitting Long	Standard	—	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5}	○	○	○	○	○		
Main block	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5}	○	○	△ ^{*17}	×	○		
	Light gray	Light gray	Light gray				Standard spec.	○	○		○				
Connector	Standard	Black	Black	NBR	Turbin oil	—	×	○ ^{*5}	○	○	○	×	○		
Speed controller ^{*14}	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*13}	○ ^{*10}	○ ^{*10,*11}	△ ^{*17}	○	○		
	Light gray	Light gray	Light gray				Standard spec.	○	○ ^{*6,*10}			×			
	Clean-room pkg.	Light gray	Light blue				×	○ ^{*10,*11,*12}	○ ^{*6,*10}					○ ^{*10}	
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.	○ ^{*10}	○ ^{*10}					×	
Speed controller SUS303 equivalent corrosivity	Standard	Black	Dark blue	HNBR	Turbin oil	Sealock coating	○	○ ^{*11,*12}	○ ^{*7}	Standard spec.	△ ^{*17}	○	○		
Needle valve	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5,*12}	○	○	△ ^{*17}	○	○		
	Light gray	Light gray	Light gray				Standard spec.	○	○ ^{*6}			×			
	Clean-room pkg.	Light gray	Light blue				×	○ ^{*12}	○						
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.	○	○					×	
Orifice fitting	Standard	Black	Black	NBR	Turbin oil	Sealock coating	○	○	○	○	○	○ ^{*16}	○ ^{*9}		
Check valve (Metal type)	Standard	—	Black	NBR	Turbin oil	Sealock coating	×	○	×	×	△ ^{*17}	○	○		
Check valve (Resin type)		Light gray	Light gray				Standard spec.								
Check Valve for Low Operating Pressure	Standard	Light gray	Light gray	HNBR (Elastic sleeve)	Turbin oil	—	Standard spec.	○ (Elastic sleeve)	○ (Elastic sleeve)	Standard spec.	○	×	○		
				FKM (Valve packing)				Standard spec.	×					×	Standard spec.

*1. When light-gray (-W) is selected for body color, the release-ring color of metric (mm) tube dia. is light-gray even for combination with any other options, except when Red color (-RR) is selected. The color of release-ring of inch tube dia. is always white.

*2. Non-purple spec. option is not available with seal rubber material FKM.

*3. For EPDM (-E) specification of sealing material, the product is assembled as oil-free specification. The color of release-ring of metric (mm) tube size is yellow, except the combination with light-gray specification, which has light-gray release-ring. EPDM (-E) specification is not available for the products with M3 or M6 threads or inch tube dia.

*4. Release-ring color: Yellow (When with light-gray specification, the release-ring color is light-gray.)

*5. Release-ring color: Brown

*6. Release-ring color: Light-blue

*7. Release-ring color: Dark-blue

*8. Release-ring color: Black

*9. Release-ring color: Red is not available with body color Light-gray.

*10. Not available for Tube dia. ø1.8 mm and ø2 mm.

*11. Not available for Low cracking pressure type.

*12. Not available for the products with M3 thread.

*13. See *5, *10, *11 and *12.

*14. Applicable types: JSC, JSS and JSM for Standard series, JSC-H for High Flow series, JSC-L and JSS-L for Low Flow series, JKC and JKL for Constant Flow series.

*15. Gasket material for Metric thread : PPS

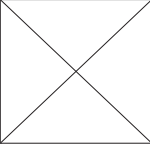
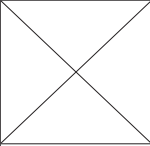
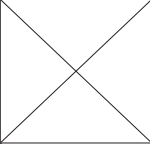
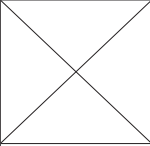
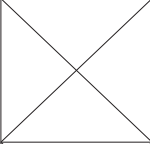
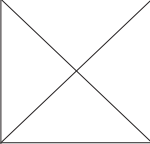
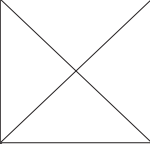
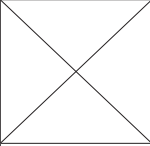
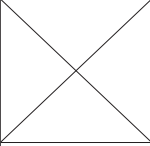
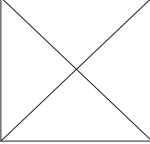
*16. Orifice bore 0.1 mm and 0.2 mm is not available.

*17. Contact us for inquiry.

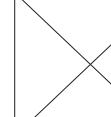
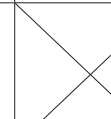
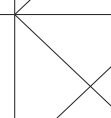
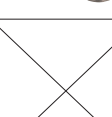
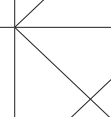
Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

*Consult PISCO for any inquiry of special-made product, which is not listed in this catalog.

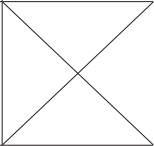
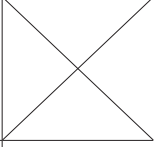
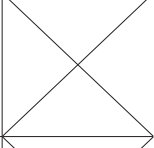
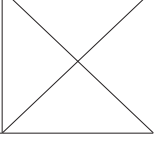
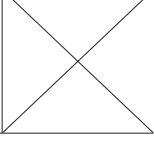
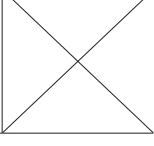
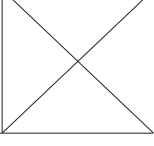
Reference Chart of Appearance Color Combination with Special Options (Fitting with Metal body)

Product series	Resin color or Option	Tube dia. size		Seal rubber material		Lubrication	Release-ring color
				-F	-E	-D	-RR
				FKM	EPDM	Oil-free option	Red
Tube fitting Tube fitting Mini	—	mm size					
		inch size					
	Light gray	mm size					
	Clean-room pkg.	mm size					
		inch size					
	Light gray + Clean-room pkg.	mm size					
Tube fitting	Clean wash + Clean-room pkg.	mm size				Standard specification	
		inch size				Standard specification	
Tube Fitting SUS304	—	mm size		Standard specification			
Tube Fitting Stainless SUS303 equivalent corrosivity	—	mm size					
	Light gray	mm size					
	Clean wash + Clean-room pkg.	mm size				Standard specification	

Reference Chart of Appearance Color Combination with Special Options (Fitting with Resin body)

Product series	Resin color or Option	Tube dia. size		Seal rubber material		Lubrication	Release-ring color	
				-F	-E	-D	-RR	
				FKM	EPDM	Oil-free option	Red	
Tube fitting Tube fitting Mini	—	mm size						
		inch size						
	Light gray	mm size						
		inch size						
	Clean-room pkg.	mm size						
		inch size						
	Light gray + Clean-room pkg.	mm size						
	Tube fitting	Clean wash + Clean-room pkg.	mm size				Standard specification	
			inch size				Standard specification	
	Tube Fitting SUS304	—	mm size		Standard specification			
	Tube Fitting Stainless SUS303 equivalent corrosivity	—	mm size					
		Light gray	mm size					
Clean wash + Clean-room pkg.		mm size				Standard specification		

Reference Chart of Appearance Color Combination with Special Options (Controllers)

Product series	Resin color or Option	Tube dia. size	Seal rubber material		Release-ring color	
			-F	-E	-RR	
			FKM	EPDM	Red	
Speed controller Throttle (needle) valve	—	mm size				
		inch size				
	Light gray	mm size				
		inch size				
	Clean-room pkg.	mm size				
		inch size				
	Light gray + Clean-room pkg.	mm size				
		mm size				
	Light gray + Clean-room pkg.	mm size				
		mm size				

To: PISCO Distributors
Attn: To Whom It May Concern
Date: September 2024

Discontinuation notice of Non-purple spec. option

We would like to express our sincere gratitude for your continued patronage.
We would like to inform you that the Non-purple spec., which was available as Special specification option, is discontinued, and its manufacturing and sales will be terminated as of the end of March, 2025.
Thank you for your understanding.

Details

- | | |
|-------------------------|--|
| 1. Discontinued option | <p>Make-to-order option, Special specification: Non-purple spec.</p> <p>Model code (Ex.): PL6-01-<u>P</u></p> <p>*"-P" at the end of the model code</p> <p>Non-purple spec: For the Non-purple spec., fluorine ions and copper ions, which were undesirable in the manufacturing line of cathode ray tube televisions, are suppressed by not applying Sealock (fluorine-based thread sealant) to the products. Thus, Non-purple spec. is equivalent to No-Sealock spec.</p> |
| 2. Reason | To update and expand applicable products by reviewing specifications to match the current situation. |
| 3. Discontinuation Date | <u>March 31, 2025</u> |
| 4. Replacement | <p>Make-to-order option, Special specification: No-Sealock spec.</p> <p>Model code (Ex.): PL6-01-<u>NS</u></p> <p>*"-NS" at the end of the model code</p> <p>*The list price remains the same.</p> |

		Thread sealant (Sealock)	Rubber material (Std. NBR)	Gasket material (Std. NBR)	Lubrication (Std. Turbine oil)	Marking	Applicable products
Discontinued	-P: Non-purple	Not applied	Fluorine materials are not selectable.			Not available	Some models of Tube Fitting
Replacement	-NS: No-Sealock	Not applied	Fluorine materials are selectable			Available	Tube Fitting, Speed Controller, Needle Valve, Check Valve, etc.

Please make inquiries to the following sales office.

Overseas Sales Department
TEL: +81-265-76-7751 FAX: +81-265-76-3305
E-mail: intl@pisco.co.jp URL: <https://pisco.co.jp/en/>