PISCO
http://www.pisco.com

Push-In Fitting Type with Stop Valve

Stop Fitting Series

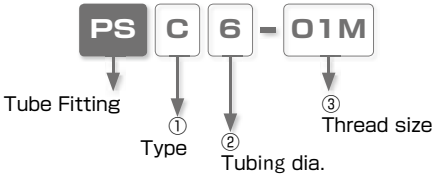
Flow self-seal fitting

- *Push-In Fitting Type with Stop Valve for General Pneumatic Piping.*
- *Air Stop by Tube Disconnection.*
- *Easy Insertion and Disconnection by Double-passage Structure.*

Model Designation (Example)

● PSC and PSL

Straight and Elbow



①Type

Code	Type	Code	Type
C	Straight	L	Elbow

② Tubing O.D.

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

Tube dia.	Inch size				
Code	5/32	1/4	5/16	3/8	1/2
Size (O.D.)	5/32"	1/4"	5/16"	3/8"	1/2"

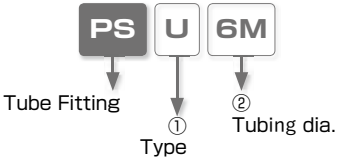
③Thread size

Thread size	Metric thread (mm)	Taper pipe thread					
Code	M5M	01M	02M	01	02	03	04
Size	M5 × 0.8	R1/8	R1/4	R1/8	R1/4	R3/8	R1/2
Remark	Tube dia. : ø4、ø6			Tube dia. : ø8、ø10、ø12			

※ Please ask us for the availability and pricing on the inch/NPT models.

● PSU and PSM

Inline



①Type

Code	Type	Code	Type
U	Union Straight	M	Bulkhead Union

②Tube dia.

Tube dia.	size (O.D.)									
Code	4M-4	6M-6	4M	6M	8	10	12	1/4	3/8	1/2
Size (O.D.)	ø4 or 5/32"	ø6	ø4 or 5/32"	ø6	ø8 or 5/16"	ø10	ø12	1/4"	3/8"	1/2"
Remark	PSM(Bulkhead Union): ø4,ø6		PSU(Union Straight) and PSM(Bulkhead Union) ø8, ø10, ø12							

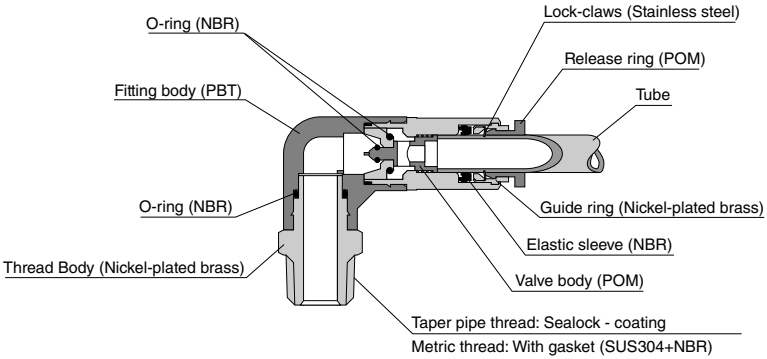
※ Please ask us for the availability and pricing on the inch O.D. models

Specifications

Fluid medium	Air
Max. operating pressure	130psi（0.9 MPa）
Max. vacuum	-29.5 in. Hg (-100kPa)
Operating temp. range	32 ~ 140°F (0 ~ 60°C) (no freezing)

Construction (Elbow: PSL)

Symbol



⚠ Detailed Safety Instructions

Before using PISCO products, be sure to read “Safety Instructions” and “Safety Instruction Manual” and “Common Safety Instructions for Fittings”.

Warning

1. Be careful when disconnecting a tube from a fitting while the compressed air remains in the tube. The tube may fly out due to the internal pressure.
2. Check the direction of air stop function by the indicated symbol on the products. Note that the air does not stop if the opposite side of tube is pulled out wrongly.

Standard Size List

Connection: Thread ⇔ Tube

Type	Page	Thread size	Tube O.D. (mm) 4	6	8	10	12
PSC Straight	P.283	M5 × 0.8	●	●			
		R1/8	●	●	●		
		R1/4		●	●	●	
		R3/8			●	●	●
		R1/2				●	●

Type	Page	Thread size	Tube O.D. (mm) 4	6	8	10	12
PSL Elbow	P.284	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
PU Union Straight	P.285	●	●	●	●	●

Type	Page	Tube O.D. (mm) 4	6	8	10	12
PM Bulkhead Union	P.285	●	●	●	●	●

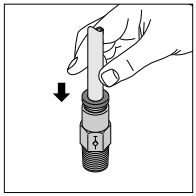
How to insert and disconnect

1. How to insert and disconnect tubes

① Tube insertion

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

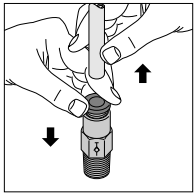
Refer to "2. Instructions for Tube Insertion" under "Common Safety Instructions for Fittings".



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.

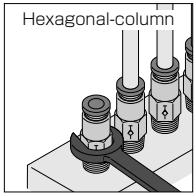


2. How to tighten thread

① Tightening thread

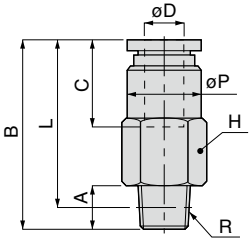
Use a spanner to tighten a hexagonal-column.

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



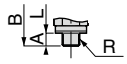
PSC Straight

RoHS compliant



Release ring
Standard type

Release ring
Mini type
øD：4、6



Metric thread type

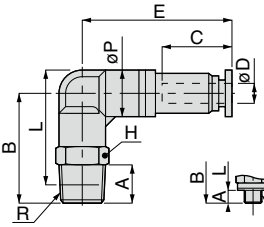
Unit：mm

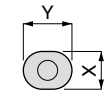
Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	Hex. H	X (øX)	Y	Effective area (mm^2)	Weight (g)	CAD file name
PSC4-M5M	4	M5×0.8	3	28.4	25.4	8	12.1	8	7.8	9.8	1.6	7	TFST-001
PSC4-01M		R1/8	8	23.9	19.9	8.8		10			2	9.6	
PSC6-M5M	6	M5×0.8	3	31.7	28.7	10	13.4	10	9.8	11.8	2.3	12	
PSC6-01M		R1/8	8	26.9	22.9						7.3	9.2	
PSC6-02M		R1/4	11		20.9	12		14				22	
PSC8-01	8	R1/8	8	35.7	31.7	14	22.3	14	13.8	–	9.1	23	
PSC8-02		R1/4	11	36	30		18.3				14.2		
PSC8-03		R3/8	12		29.7	15		17			15.8	39	
PSC10-02	10	R1/4	11	38.3	32.3	17	24.7	17	16.8	–	17.8	32	
PSC10-03		R3/8	12	39.8	33.5		20.7				24.9	37	
PSC10-04		R1/2	15		31.6	18		21				64	
PSC12-03	12	R3/8	12	45.8	39.5	20.8	29.1	21	19.8	–	28.8	65	
PSC12-04		R1/2	15	45.9	37.7		23.1				31.8	66	

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

PSL Elbow

RoHS compliant





Release ring
Mini type
øD：4、6

Release ring
Standard type

Metric thread type

Unit：mm

Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	E	Hex. H	X (øX)	Y	Effective area (mm^2)	Weight (g)	CAD file name
PSL4-M5M	4	M5×0.8	3	20.3	22.3	10	12.1	29.7	10	7.8	9.8	1.5	13	TFST-002
PSL4-01M		R1/8	8	23.3	24.3							1.8	16	
PSL6-M5M	6	M5×0.8	3	22	25.3	12.5	13.4	30.1	12	7.8	9.8	2.3	20	
PSL6-01M		R1/8	8	25	27.3							6.8	22	
PSL6-02M		R1/4	11	28	28.2				14			8.1	30	
PSL8-01	8	R1/8	8	28	31.3	14.5	18.3	43	14	13.8	–	13.7	35	
PSL8-02		R1/4	11	31	32.2							13.2	41	
PSL8-03		R3/8	12	32.8	33.7				17			14.5	54	
PSL10-02	10	R1/4	11	36	38.7	17.5	20.7	49.3	17	16.8	–	21.4	59	
PSL10-03		R3/8	12	37	39.4							21.9	67	
PSL10-04		R1/2	15	40	40.6				21			21.3	90	
PSL12-03	12	R3/8	12	39	43.2	21	23.1	57.1	21	19.8	–	30.2	92	
PSL12-04		R1/2	15	42	44.3							29.8	108	

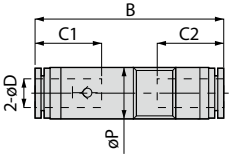
※. "L" is a reference value for height dimension after tightening taper thread.

PSU Union Straight

RoHS compliant

Release ring
Mini type
øD：4、6

Release ring
Standard type

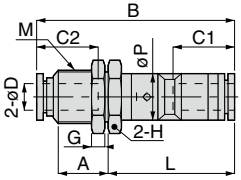


Unit：mm

Model code	Tube O.D. øD	B	øP	Tube end C1	Tube end C2	X (øX)	Y	Effective area (mm^2)	Weight (g)	CAD file name
PSU4M	4	35.6	8.5	12.2	11	7.8	9.8	2	3.8	TFST-003
PSU6M	6	38.8	11	13.3	11.6	7.8	9.8	7.1	5.9	
PSU8	8	54.2	14.5	18.2	18.1	13.8	–	15.4	17	
PSU10	10	60	17.5	20.3	20.2	16.8	–	22.4	27	
PSU12	12	70.2	21	23.2	23.4	19.8	–	30	42	

PSM Bulkhead Union

RoHS compliant



Unit：mm

Model code	Tube O.D. øD	M	A	B	L	øP	Tube end C1	Tube end C2	Hex. H	G	Effective area (mm^2)	Weight (g)	CAD file name
PSM4M-4	4	M10×1	10	42.5	29.6	10	14.9	12.1	12	3	1.7	14	TFST-003
PSM6M-6	6	M12×1	9.9	47.3	34.2	12.5	17	13.4	14	4	7.2	20	
PSM8	8	M16×1	14.7	58.1	37.1	14.5	18.4	18.3	19	4	14.7	38	
PSM10	10	M20×1	16.2	66.5	43.4	17.5	21.2	20.7	24	5	22.8	68	
PSM12	12	M22×1	20.7	75.5	48.6	21	23.4	23.1	27	6	30.7	98	

⚠ Common Safety Instructions for Fittings

Before selecting or using PISCO products, read the following instructions. Read the detailed instructions for individual series as well as the instructions below.

⚠ Warning

1. Do not use fittings with fluid medium other than air or water. (Water can be used with some series.) Contact us for using other kind of fluid medium except air and water.

2. Do not use fittings except Anti-spatter, Brass and Brass Compression Fitting series in a place where the flame and weld spatter is produced. There is a risk of causing fire by sparks.

3. As for applications where threads or tubes swing / rotate, use Rotary Joints, High Rotary Joints or Multi-Circuit Rotary Block only. The other PISCO products can be damaged in these applications.

4. Use only Die Temperature Control Fitting Series, Tube Fitting Stainless SUS316 Series, Tube Fitting Stainless SUS316 Compression Fitting Series or Tube Fitting Brass Series under the condition of over 60℃ (140° F) water or thermal oil. Other PISCO products can be damaged by heat and hydrolysis under the condition above.

5. As for the condition required to dissipate static electricity or provide an antistatic performance, use EG Series fitting and antistatic products only, and do not use other PISCO products. There is a risk that static electricity can cause system defects or failures.

6. Avoid any load on PISCO products, such as a tensile strength, twisting and bending. Otherwise, there is a risk of causing damage to the products.