Block and Connector



Push-In Fitting Type of Corrosion Resistant Stainless Steel
Tube Fitting Stainless **SUS304** Series

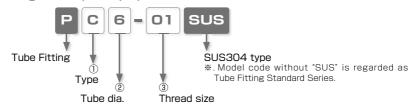


Suitable for Strength Requirements / Chemical Environment

SUS304 for Metal Body

● FKM for Seal Rubber

■ Model Designation (Example)



① Type

Code	Туре	Code	Туре	Code	Туре	Code	Туре
С	Straight	L	Elbow	В	Branch Tee	D	Run Tee
X	Branch Y	VX	Tripod Elbow	AX	Branch Elbow	KD	Run Triple Tee
RX	Branch Double Y	U	Union Straight	G	Unequal Union Straight	٧	Union Elbow
E	Union Tee	EG	Unequal Union Tee	Υ	Union Y	W	Unequal Union Y
VU	Tripod Union	AU	Branch Union Elbow	KG	Unequal Triple Tee	RG	Unequal Double Y
PF	Cap						

2 Tube dia.

Tube dia.		mm size								
Code	4	6	8	10	12	16				
Size (mm)	ø4	ø6	ø8	ø10	ø12	ø16				

③ Thread size (* In case that ③ indicates tube dia., select tube dia. from table ②)

Thread size	Metric thr	read (mm)	Taper pipe thread			
Code	M5	M6	01	02	03	04
Size	M5 × 0.8	M6 × 1	R1/8	R1/4	R3/8	R1/2

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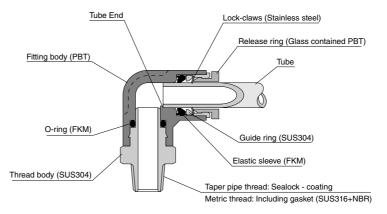
Standard Series Mini Series

Specifications

Fluid medium	Air / Water(※) / Others (chemicals) (※)
Max. operating pressure	1.0MPa
Max. vacuum	-100kPa
Operating temp. range	0 ~ 60°C (No freezing)

- 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. Be sure to place Insert Ring into the tube edge when using water or liquid as a fluid medium.
 - 3. The specification above may not be applied, depending on the kind of chemicals or mixed gases used as fluid medium. Make sure to use PISCO products after verifying their suitability on the user side.

■ Construction (Elbow: PL)



◆ How to identify SUS304, SUS303 Equivalent and Standard Fitting (Tube Fitting Standard Fitting).



Identification part	SUS304	SUS303 Equivalent	Standard Fitting
V groove on Guide ring	0	×	
Flat groove on hexagonal-column	0	×	×
Release-ring color	Dark blue	Dark blue	Black

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 using chemicals as a fluid medium, be sure to contact us first. Depending on conditions, it may cause damage to the fittings, the escape of tubes and a fluid leakage.

■ Standard Size List ■

Connection: Thread ⇔ Tube

Type	Page	Thread size		Ti	ube O.	D. (mn		
туре	age	I I I I Cau 3120	4	6	8	10	12	16
PC Straight	P.141	M5 × 0.8	•	•				
		M6 × 1	•	•				
		R1/8	•	•	•	•		
		R1/4	•	•	•	•	•	
		R3/8		•	•	•	•	•
		R1/2				•	•	•
PL Elbow	P.142	M5 × 0.8	•	•				
		M6 × 1	•	•				
		R1/8	•	•	•	•		
		R1/4	•	•	•	•	•	
		R3/8		•	•	•	•	•
		R1/2				•	•	•
PB Branch Tee	P.144	M5 × 0.8	•	•				
		M6 × 1	•	•				
		R1/8	•	•	•	•		
		R1/4	•	•	•	•	•	
		R3/8		•	•	•	•	•
		R1/2				•	•	•
PD Run Tee	P.145	M5 × 0.8	•	•				
		M6 × 1	•	•				
		R1/8	•	•	•	•		
		R1/4	•	•	•	•	•	
		R3/8		•	•	•	•	•
		R1/2				•	•	•

					inha O	D /mn	۵)	
Type	Page	Thread size	4		ube O.		12	10
DV Duonals V	D447	145 7/ 0.0	4	6	8	10	12	16
PX Branch Y	P.14/	M5 × 0.8	•					
		M6 × 1	•	•	_	_		
		R1/8	•	•	•	•		
		R1/4	•	•	•	•	•	
		R3/8		•	•	•	•	
		R1/2				•	•	
PVX Tripod Elbow	P.148	M5 × 0.8	•	•				
		M6 × 1	•	•	_	_		
		R1/8	•	•	•	•		
		R1/4	•	•	•	•	•	
		R3/8		•	•	•	•	
		R1/2				•	•	
PAX Branch Elbow	P.149		•	•				
		M6 × 1	•	•				
		R1/8	•	•	•	•		
		R1/4	•	•	•	•	•	
		R3/8		•	•	•	•	
		R1/2				•		
PRX Branch Double Y	P.150	R1/8	•	•				
		R1/4	•					
		Rc1/2				•		
				Tube	O.D. 1	1 (mm)	Т	ube O.D.
Type	Pag	e Threa	d size	4	6	. (11111)		(mm)
PKD Run Triple Tee	P.1	50 R1	/0	4	- 6)	6
INVITATION THE	P. I	וח טט	/0	_				U

Connection: Tube ⇔ Tube (Equal dia.)

Time	Dogo			Tube O.	D. (mm))	
Type	Page	4	6	8	10	12	16
PU Union Straight	P.141	•	•	•	•	•	•
PV Union Elbow	P.143	•	•	•	•	•	•
PE Union Tee	P.143	•	•	•	•	•	•

Time	Dogo			Tube O.	D. (mm))	
Type	Page	4	6	8	10	12	16
PY Union Y	P.146	•	•	•	•	•	
PVU Tripod Union	P.148	•	•	•	•	•	
PAU Branch Union Elbow	P.149	•	•	•	•	•	

Connection: Tube ⇔ Tube (Unequal dia.)

T	D	Tube O.D. 1 (mm)		Tube O.D. 2(mm)					
			4	6	8	10	12		
PG Unequal Union Straight	P.142	6	•						
		8		•					
		10			•				
		12				•			
		16					•		
PEG Unequal Union Tee	P.144	6	•						
		8		•					
		10			•				
		12				•			

	Time	Page	Tube O.D. 1	Tube O.D. 2 (mm)					
	Type	rage	(mm)	4	6	8	10	12	
Ī	PW Unequal Union Y	P.146	6	•					
			8		•				
			10			•			
			12				•		
Ī	PRG Unequal Double Y	P.151	6	•					
			8		•				
Ī	PKG Unequal Triple Tee	P.150	6	•					
			8	•	•				
			10		•	•			

Plug

Туре	Dogo		Tub	e O.D. (n	nm)	
	Page	4	6	8	10	12
PPF Cap	P.151	•	•	•	•	•

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Standar Series Mini

Stainless Series

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.

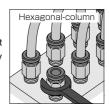


2 How to tighten thread

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".



Applicable Tube and Related Products Fluororesin (PFA) Tube······P.628

Straight

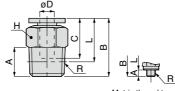












Metric thread type

Unit: mm

Model code	Tube O.D. øD	R		В		Tube end C	Hex. H	Effective area (mm²)	Weight (g)	CAD file name
PC4-M5SUS		M5×0.8	3	20.1				1.9	5.9	PC4-M5SUS
PC4-M6SUS	4	M6 × 1	4		17.1	15	10	6.2	6.2	PC4-M6SUS
PC4-01SUS	4	R1/8	8	21.1		15		5.3	7.8	PC4-01SUS
PC4-02SUS		R1/4	11		15.1		14	0.5	15	PC4-02SUS
PC6-M5SUS		M5×0.8	3	22.2	19.2			1.9	8.5	PC6-M5SUS
PC6-M6SUS		M6 × 1	4	23.2	19.2		12	6.2	8.8	PC6-M6SUS
PC6-01SUS	6	R1/8	8	22.7	18.7	17.1			8.7	PC6-01SUS
PC6-02SUS		R1/4	11	24.7	18.7		14	12.5	17	PC6-02SUS
PC6-03SUS		R3/8	12	23.7	17.4		17		26	PC6-03SUS
PC8-01SUS	8	R1/8	8	27.9	23.9		1.4		15	PC8-01SUS
PC8-02SUS		R1/4	11	26.6	20.6	18.2	14	20	15	PC8-02SUS
PC8-03SUS		R3/8	12	23.9	17.6		17		22	PC8-03SUS
PC10-01SUS		R1/8	8	30.5	26.5			22.9	22	PC10-01SUS
PC10-02SUS	40	R1/4	11	30	24	20.0	17		20	PC10-02SUS
PC10-03SUS	10	R3/8	12	29.5	23.2	20.9		35	25	PC10-03SUS
PC10-04SUS		R1/2	15	30.5	22.3		21		47	PC10-04SUS
PC12-02SUS		R1/4	11	36.1	30.1			35	41	PC12-02SUS
PC12-03SUS	12	R3/8	12	32.1	25.8	23.5	21	F0	34	PC12-03SUS
PC12-04SUS	12	R1/2	15	34.1	25.9			59	47	PC12-04SUS
PC16-03SUS	16	R3/8	12	39.5	33.2	25	24	83.3	56	PC16-03SUS
PC16-04SUS	16	R1/2	15	41.5	33.3	25	24	114	63	PC16-04SUS

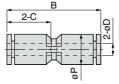
* . "L" is a reference value for height dimension after tightening taper thread.





Stainless Series







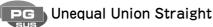




Unit: mm

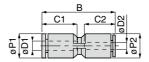
Model code	Tube O.D. øD	В	øΡ	Tube end C	Effective area (mm²)	Weight (g)	CAD file name
PU4SUS	4	31	10	15	5.3	4.7	PU4SUS
PU6SUS	6	35.2	12.5	17.1	12.5	6.4	PU6SUS
PU8SUS	8	37.8	14.5	18.1	20	9.1	PU8SUS
PU10SUS	10	43.8	17.5	20.4	35	15	PU10SUS
PU12SUS	12	48.2	21	23.6	59	22	PU12SUS
PU16SUS	16	49.8	25	24.3	147.6	25	PU16SUS

CAD









Unit: mm

Model code	Tube O.D. øD1	Tube O.D. øD2		øP1	øP2	Tube end C1	Tube end C2	Effective area (mm²)		CAD file name
PG6-4SUS	6	4	34.6	12.5	12.5	17.1	15	5.3	6.2	PG6-4SUS
PG8-6SUS	8	6	38	14.5	14.5	18.1	17.1	12.5	8.6	PG8-6SUS
PG10-8SUS	10	8	43.3	17.5	17.5	20.4	18.4	20	14	PG10-8SUS
PG12-10SUS	12	10	48	21	21	23.6	20.4	35	21	PG12-10SUS
PG16-12SUS	16	12	49.9	25	25	24.3	23.6	88.6	27	PG16-12SUS









Unit: mm

CAD

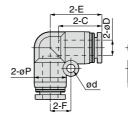
Model code	Tube O.D. ØD	R	А	В	L	øΡ	Tube end C	Е	Hex. H	Effective area (mm²)	Weight (g)	CAD file name
PL4-M5SUS		M5×0.8	3	20.3	22.3					1.5	7.7	PL4-M5SUS
PL4-M6SUS	4	M6 × 1	4	21.3	22.3	10	15	18.1	10		8	PL4-M6SUS
PL4-01SUS	4	R1/8	8	23.3	24.3	10	15	10.1		4.2	11	PL4-01SUS
PL4-02SUS		R1/4	11	26.3	25.3				14		19	PL4-02SUS
PL6-M5SUS		M5×0.8	3	22	25.3					1.5	12	PL6-M5SUS
PL6-M6SUS		M6 × 1	4	23	25.5				12	6.1	12	PL6-M6SUS
PL6-01SUS	6	R1/8	8	25	27.3	12.5	16.9	19.9			14	PL6-01SUS
PL6-02SUS		R1/4	11	28	28.2				14	10	21	PL6-02SUS
PL6-03SUS		R3/8	12	29.8	29.7				17		33	PL6-03SUS
PL8-01SUS		R1/8	8	28	31.3				14		17	PL8-01SUS
PL8-02SUS	8	R1/4	11	31	32.2	14.5	18.1	22.7	14	16.5	23	PL8-02SUS
PL8-03SUS		R3/8	12	32.8	33.7				17		35	PL8-03SUS
PL10-01SUS		R1/8	8	33	37.8					22.4	30	PL10-01SUS
PL10-02SUS	10	R1/4	11	36	38.7	17.5	20.4	26.4	17		32	PL10-02SUS
PL10-03SUS	10	R3/8	12	37	39.4	17.5	20.4	20.4		30	40	PL10-03SUS
PL10-04SUS		R1/2	15	40	40.6				21		60	PL10-04SUS
PL12-02SUS		R1/4	11	38	42.5					30	48	PL12-02SUS
PL12-03SUS	12	R3/8	12	39	43.2	21	23.6	29.6	21	47	49	PL12-03SUS
PL12-04SUS		R1/2	15	42	44.3					47	63	PL12-04SUS
PL16-03SUS	16	R3/8	11	47	53.2	25	24.3	33.3	22	80.2	77	PL16-03SUS
PL16-04SUS	10	R1/2	15	51	55.3	25	24.5	55.5	22	93.3	81	PL16-04SUS

^{* . &}quot;L" is a reference value for height dimension after tightening taper thread.

Union Elbow

RoHS compliant











Unit: mm

Model code	Tube O.D. øD	øΡ	Tube end C	Е	ød	F	Т	Effective area (mm²)	Weight (g)	CAD file name
PV4SUS	4	10	15	17	3.2	6.5	10	4.2	5.1	PV4SUS
PV6SUS	6	12.5	17	20.2	3.2	8	12.5	10	7.2	PV6SUS
PV8SUS	8	15	18.1	22.4	4.2	10	15.6	16.5	11	PV8SUS
PV10SUS	10	17.5	20.9	26.4	4.2	12	18.2	30	17	PV10SUS
PV12SUS	12	21	23.6	29.6	4.2	14	21.7	47	25	PV12SUS
PV16SUS	16	25	24.3	33.3	4.2	12	25.6	91.6	30	PV16SUS



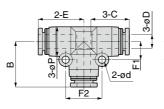




Union Tee

RoHS compliant











Unit: mm

Model code	Tube O.D. øD	øΡ	Tube end C	Е	ød	Т	F1	F2	В	Effective area (mm²)		CAD file name
PE4SUS	4	10	15	17	3.2	10	6.5	13	17	5.3	7.4	PE4SUS
PE6SUS	6	13	17.1	20.2	3.2	13.5	8	16	20.2	12.5	11	PE6SUS
PE8SUS	8	15	18.1	22.2	3.2	15	9	18	22.2	20	15	PE8SUS
PE10SUS	10	17.5	19.8	25.4	4.2	17.5	12	24	25.4	35	25	PE10SUS
PE12SUS	12	21	23.1	28.6	4.2	21.7	14	28	28.4	59	36	PE12SUS
PE16SUS	16	25	24.3	33.3	4.2	25.6	12	24	33.3	89.8	43	PE16SUS

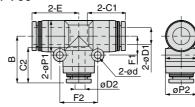
Unit: mm

CAD

PEG Unequal Union Tee





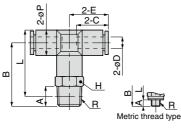


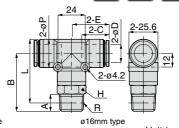


形	式	Tube O.D. øD1	Tube O.D. øD2	øP1	øP2	Tube end C1	Tube end C2				F2			Effective area (mm²)		CAD file name
PEG6-48	SUS	6	4	13	13	17.1	15	20.2	3.2	8	16	19.6	13.5	4.1	11	PEG6-4SUS
PEG8-68	SUS	8	6	14.5	12.5	18.1	17.1	22.2	3.2	9	18	22.4	15.1	9.5	14	PEG8-6SUS
PEG10-8	SUS	10	8	17.5	14.5	20.4	18.1	25.4	4.2	12	24	24.9	18.2	18.5	23	PEG10-8SUS
PEG12-103	SUS	12	10	21	17.5	23.6	20.4	28.6	4.2	14	28	28.2	21.7	29.5	34	PEG12-10SUS

Branch Tee







Unit: mm

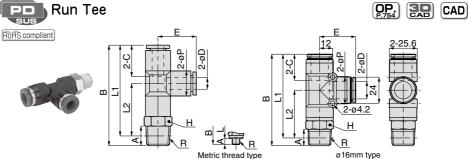
Model co	Tube O.D.	R		В		ØΡ	Tube end	Е	Hex.	Effective area	Weight	CAD
Model co	ue øD	K				MP MP	С	E .	Н	(mm²)	(g)	file name
PB4-M5S	US	M5×0.8	3	20.2	22.2					1.5	10	PB4-M5SUS
PB4-M6S	US 4	M6 × 1	4	21.2	22.2	10	15	17	10		11	PB4-M6SUS
PB4-01SU	JS 4	R1/8	8	23.2	24.2	10	15	17		4.1	13	PB4-01SUS
PB4-02SU	JS	R1/4	11	26.2	25.2				14		22	PB4-02SUS
PB6-M5S	US	$M5 \times 0.8$	3	23	26.5					1.5	16	PB6-M5SUS
PB6-M6S	US	M6 × 1	4	24	20.5				12	6.8	10	PB6-M6SUS
PB6-01SU	JS 6	R1/8	8	26	28.5	13	17.1	20.3			17	PB6-01SUS
PB6-02SU	JS	R1/4	11	29	29.5				14	10	24	PB6-02SUS
PB6-03SU	JS	R3/8	12	30.8	31				17		36	PB6-03SUS
PB8-01SU	JS	R1/8	8	26.3	29.8				14		22	PB8-01SUS
PB8-02SU	JS 8	R1/4	11	29.3	30.8	15	18.4	22.4	14	16.5	27	PB8-02SUS
PB8-03SU	JS	R3/8	12	31.1	32.3				17		40	PB8-03SUS
PB10-01SI	JS	R1/8	8	33	37.8					23.2	37	PB10-01SUS
PB10-02S	US	R1/4	11	36	38.7	10.5	20.4	05.4	17		40	PB10-02SUS
PB10-03S	US 10	R3/8	12	37	39.4	17.5	20.4	25.4		30	48	PB10-03SUS
PB10-04S	US	R1/2	15	40	40.6				21		68	PB10-04SUS
PB12-02S	US	R1/4	11	38	42.5					30	59	PB12-02SUS
PB12-03S	US 12	R3/8	12	39	43.2	21	23.1	28.6	21	47	60	PB12-03SUS
PB12-04S	US	R1/2	15	42	44.3					47	74	PB12-04SUS
PB16-03S	US 16	R3/8	11	47	53.2	25	24.3	33.3	22	80.1	90	PB16-03SUS
PB16-04S	US	R1/2	15	51	55.3	20	24.3	33.3	22	90.8	93	PB16-04SUS

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





Run Tee



Unit: mm

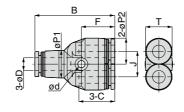
Model code	Tube O.D. ØD	R	А	В	L1	L2	ØР	Tube end C	Е	Hex. H	Effective area (mm²)	Weight (g)	CAD file name
PD4-M5SUS		M5×0.8	3	37.2	34.2	17.2					1.9	10	PD4-M5SUS
PD4-M6SUS	4	M6 × 1	4	38.2	34.2	17.2	10	15	17	10		11	PD4-M6SUS
PD4-01SUS	4	R1/8	8	40.2	36.2	19.2	10	15	' '		5.3	13	PD4-01SUS
PD4-02SUS		R1/4	11	43.2	37.2	20.2				14		22	PD4-02SUS
PD6-M5SUS		M5×0.8	3	43.3	40.3	20					1.9	15	PD6-M5SUS
PD6-M6SUS		M6 × 1	4	44.3	40.5	20				12	6.4	15	PD6-M6SUS
PD6-01SUS	6	R1/8	8	46.3	42.3	22	13	17.1	20.2			17	PD6-01SUS
PD6-02SUS		R1/4	11	49.3	43.3	23				14	12.5	25	PD6-02SUS
PD6-03SUS		R3/8	12	51.1	44.8	24.5				17		37	PD6-03SUS
PD8-01SUS		R1/8	8	50.4	46.4	24.2				14		22	PD8-01SUS
PD8-02SUS	8	R1/4	11	53.4	47.4	25.2	15	18.1	22.2	14	20	28	PD8-02SUS
PD8-03SUS		R3/8	12	55.2	48.9	26.7				17		40	PD8-03SUS
PD10-01SUS		R1/8	8	58.4	54.4	29					23.6	37	PD10-01SUS
PD10-02SUS	10	R1/4	11	61.4	55.4	30	17.5	20.4	25.4	17		40	PD10-02SUS
PD10-03SUS	10	R3/8	12	62.4	56.1	30.7	17.5	20.4	25.4		35	47	PD10-03SUS
PD10-04SUS		R1/2	15	65.4	57.2	31.8				21		68	PD10-04SUS
PD12-02SUS		R1/4	11	66.8	60.8	32.2					35	59	PD12-02SUS
PD12-03SUS	12	R3/8	12	67.8	61.5	32.9	21	23.1	28.4	21	59	33	PD12-03SUS
PD12-04SUS		R1/2	15	70.8	62.6	34					59	74	PD12-04SUS
PD16-03SUS	16	R3/8	11	80.3	74	40.7	25	24.3	33.3	22	79.5	90	PD16-03SUS
PD16-04SUS	10	R1/2	15	84.3	76.1	42.8	20	24.3	55.5		92.8	94	PD16-04SUS

% 1. "L1" and "L2" are reference values for height dimensions after tightening taper thread.









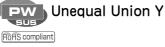


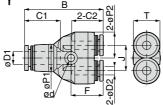




Unit: mm

Model code	Tube O.D. øD		øP1	øP2	Tube end C		ød	F	Т	Effective area (mm²)		CAD file name
PY4SUS	4	33	10	10	15	11	3.4	14.2	10	4.2	7.6	PY4SUS
PY6SUS	6	38	13	12.5	17.1	12	3.4	15.9	12.5	10	11	PY6SUS
PY8SUS	8	42.4	15	14.5	18.1	14	3.4	17.2	14.5	16.5	15	PY8SUS
PY10SUS	10	48.8	18	18	20.9	18	4.5	19.7	18	27	26	PY10SUS
PY12SUS	12	55.2	21.5	21	23.6	20	4.2	22.4	21	38	37	PY12SUS
PY16SUS	16	62.6	25	25	24.3	24	4.5	22.3	25	56.5	44	PY16SUS









Unit: mm

Model code	Tube O.D. øD1	Tube O.D. øD2	В	øP1	øP2	Tube end C1	Tube end C2	J	ød	F	Т	Effective area (mm²)	Weight (g)	CAD file name
PW6-4SUS	6	4	37.4	13	12.5	17.1	15	12	3.4	15.3	12.5	4.2	11	PW6-4SUS
PW8-6SUS	8	6	42.6	15	14.5	18.1	17.1	14	3.4	17.4	14.5	10	14	PW8-6SUS
PW10-8SUS	10	8	48.3	18	18	20.9	18.2	18	4.5	19.2	18	17	23	PW10-8SUS
PW12-10SUS	12	10	55	21.5	21	23.6	20.4	20	4.2	22.2	21	27	36	PW12-10SUS

Branch Y

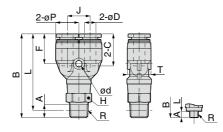












Unit: mm

Model code	Tube O.D. øD	R				ØΡ	Tube end C		ød			Hex. H	Effective area (mm²)	Weight (g)	CAD file name
PX4-M5SUS		M5×0.8	3	37.7	34.7								1.5	11	PX4-M5SUS
PX4-M6SUS		M6 × 1	4	38.7	34.7	10	15	11	3.4	14.2	10	10	3.3	11	PX4-M6SUS
PX4-01SUS	4	R1/8	8	40.7	36.7	10	15	11	3.4	14.2	10		4.2	14	PX4-01SUS
PX4-02SUS		R1/4	11	43.7	37.7							14	4.2	23	PX4-02SUS
PX6-M5SUS		$M5 \times 0.8$	3	41.5	38.5								1.5	16	PX6-M5SUS
PX6-M6SUS		M6 × 1	4	42.5	30.3							12	6.5	10	PX6-M6SUS
PX6-01SUS	6	R1/8	8	44.5	40.5	12.5	17.1	12	3.4	15.9	12.5			17	PX6-01SUS
PX6-02SUS		R1/4	11	47.5	41.5							14	10	25	PX6-02SUS
PX6-03SUS		R3/8	12	49.3	43							17		37	PX6-03SUS
PX8-01SUS		R1/8	8	48.7	44.7							14		24	PX8-01SUS
PX8-02SUS	8	R1/4	11	51.7	45.7	14.5	18.1	14	3.4	17.2	14.5	14	16.5	29	PX8-02SUS
PX8-03SUS		R3/8	12	53.5	47.2							17		43	PX8-03SUS
PX10-01SUS		R1/8	8	55.5	51.5								22.1	39	PX10-01SUS
PX10-02SUS	10	R1/4	11	58.5	52.5	18	20.9	18	4.5	19.7	18	17		42	PX10-02SUS
PX10-03SUS	10	R3/8	12	59.5	53.2	10	20.5	10	4.5	15.7	10		30	49	PX10-03SUS
PX10-04SUS		R1/2	15	62.5	54.3							21		69	PX10-04SUS
PX12-02SUS		R1/4	11	63.7	57.7									61	PX12-02SUS
PX12-03SUS	12	R3/8	12	64.7	58.4	21	23.6	20	4.2	22.4	21	21	37	62	PX12-03SUS
PX12-04SUS		R1/2	15	67.7	59.5									77	PX12-04SUS

 $\frakking 1$. "L" is a reference value for height dimension after tightening taper thread.

Stainless Series

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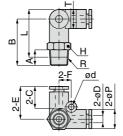
CAD

Unit: mm











Unit: mm

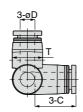
Model code	Tube O.D.	R	А	В		øΡ	Tube end	Е	Hex.	ød	F	Т	Effective area	Weight	CAD
- Woder code	øD					01	С		Н	ou			(mm²)	(g)	file name
PVX4-M5SUS		$M5 \times 0.8$	3	21.7	23.7								2.3	11	PVX4-M5SUS
PVX4-M6SUS	4	$M6 \times 1$	4	22.7	25.7	10	15	17	10	3.2	6.5	10	3.6	- 1 1	PVX4-M6SUS
PVX4-01SUS	4	R1/8	8	24.7	25.7	10	15	' '		3.2	0.5	10	4	13	PVX4-01SUS
PVX4-02SUS		R1/4	11	27.7	26.7				14				3.5	22	PVX4-02SUS
PVX6-M5SUS		$M5 \times 0.8$	3	25.3	28.6								2.3	16	PVX6-M5SUS
PVX6-M6SUS		M6 × 1	4	26.3	20.0				12				5.9	10	PVX6-M6SUS
PVX6-01SUS	6	R1/8	8	28.3	30.6	12.5	17.1	20.2		4.2	8	12.5	8.5	17	PVX6-01SUS
PVX6-02SUS		R1/4	11	31.3	31.5				14				8	25	PVX6-02SUS
PVX6-03SUS		R3/8	12	33.1	33				17				8.4	37	PVX6-03SUS
PVX8-01SUS		R1/8	8	30.4	33.7				14				17.1	23	PVX8-01SUS
PVX8-02SUS	8	R1/4	11	33.4	34.6	14.5	18.1	22.1	14	4.2	10	14.5	17.5	29	PVX8-02SUS
PVX8-03SUS		R3/8	12	35.2	36.1				17				17.4	40	PVX8-03SUS
PVX10-01SUS		R1/8	8	35.2	40								21.7	39	PVX10-01SUS
PVX10-02SUS	10	R1/4	11	38.2	40.9	17.5	20.4	26.4	17	4.2	12	17.5	31.5	41	PVX10-02SUS
PVX10-03SUS	10	R3/8	12	39.2	41.6	17.5	20.4	20.4		4.2	12	17.5	28.1	49	PVX10-03SUS
PVX10-04SUS		R1/2	15	42.2	42.8				21				24.3	69	PVX10-04SUS
PVX12-02SUS		R1/4	11	41.2	45.7								40.9	62	PVX12-02SUS
PVX12-03SUS	12	R3/8	12	42.2	46.4	21	23.6	29.6	21	4.2	14	21	45	02	PVX12-03SUS
PVX12-04SUS		R1/2	15	45.2	47.5								44.8	77	PVX12-04SUS
w "I " :															

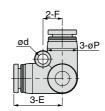
 $\ensuremath{\text{\%}}$. "L" is a reference value for height dimension after tightening taper thread.



RoHS compliant







Model code	Tube O.D. øD	øΡ	Tube end C	E	ød	F	Т	Effective area (mm²)	Weight (g)	CAD file name
PVU4SUS	4	10	15	17	3.2	6.5	10	3.7	7.3	PVU4SUS
PVU6SUS	6	12.5	17.1	20.2	4.2	8	12.5	8.3	11	PVU6SUS
PVU8SUS	8	14.5	18.1	22.1	4.2	10	14.5	16	15	PVU8SUS
PVU10SUS	10	17.5	20.4	26.4	4.2	12	17.5	30.2	25	PVU10SUS
PVU12SUS	12	21	23.6	29.6	4.2	14	21	40.2	36	PVU12SUS

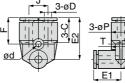
PAU Branch Union Elbow





RoHS compliant





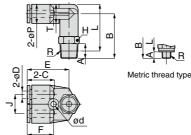
Unit: mm

Model code	Tube O.D. øD	E1	øΡ	Tube end C		E2				Effective area (mm²)	Weight (g)	CAD file name
PAU4SUS	4	17	10	15	11	22.8	3.2	14.3	10	2.5	8.1	PAU4SUS
PAU6SUS	6	19.9	12.5	17.1	12	26.3	4.2	15.6	12.5	7.2	12	PAU6SUS
PAU8SUS	8	22.7	14.5	18.1	14	29.4	4.2	16.9	14.5	16.3	17	PAU8SUS
PAU10SUS	10	25.2	17.5	20.4	18	33.7	4.2	18.7	17.5	27.9	27	PAU10SUS
PAU12SUS	12	29.6	21	23.6	20	35.4	4.2	20.6	21	40	39	PAU12SUS
·												















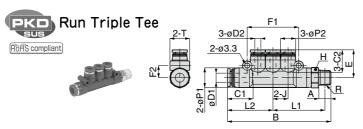
					L_ F										ı	Jnit∶mm
Model code	Tube O.D. øD	R	А	В	L	øΡ	Tube end C	J	Е	Hex. H	ød	F	Т	Effective area (mm²)	Weight (g)	CAD file name
PAX4-M5SUS		M5×0.8	3	21.7	00.0									2.2	11	PAX4-M5SUS
PAX4-M6SUS		M6 × 1	4	22.7	23.7	10	15	11	22.0	10	3.2	14.3	10	2.5	12	PAX4-M6SUS
PAX4-01SUS	4	R1/8	8	24.7	25.7	10	15	11	22.8		3.2	14.3	10	2.7	14	PAX4-01SUS
PAX4-02SUS		R1/4	11	27.7	26.7					14				2.5	23	PAX4-02SUS
PAX6-M5SUS		$M5 \times 0.8$	3	25	28.3									2.2	17	PAX6-M5SUS
PAX6-M6SUS		M6 × 1	4	26	20.5					12				6.4	17	PAX6-M6SUS
PAX6-01SUS	6	R1/8	8	28	30.3	12.5	17.1	12	26.3		4.2	15.6	12.5	6.9	19	PAX6-01SUS
PAX6-02SUS		R1/4	11	31	31.2					14				6.6	26	PAX6-02SUS
PAX6-03SUS		R3/8	12	32.8	32.7					17				6.8	38	PAX6-03SUS
PAX8-01SUS		R1/8	8	31	34.3					14				14.6	24	PAX8-01SUS
PAX8-02SUS	8	R1/4	11	34	35.2	14.5	18.1	14	29.4	14	4.2	16.9	14.5	14.5	29	PAX8-02SUS
PAX8-03SUS		R3/8	12	35.8	36.7					17				15	42	PAX8-03SUS
PAX10-01SUS		R1/8	8	34	38.8									21.6	41	PAX10-01SUS
PAX10-02SUS	10	R1/4	11	37	39.7	17.5	20.4	18	33.7	17	4.2	18.7	17.5	26.1	44	PAX10-02SUS
PAX10-03SUS	10	R3/8	12	38	40.4	17.5	20.4	10	55.7		7.∠	10.7	17.5	27.2	51	PAX10-03SUS
PAX10-04SUS		R1/2	15	41	41.6					21				29.9	71	PAX10-04SUS
PAX12-02SUS		R1/4	11	41.2	45.7									38.2	64	PAX12-02SUS
PAX12-03SUS	12	R3/8	12	42.2	46.4	21	23.6	20	35.4	21	4.2	20.6	21	43.1	65	PAX12-03SUS
PAX12-04SUS		R1/2	15	45.2	47.5									42.1	80	PAX12-04SUS

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



CAD

Unit: mm

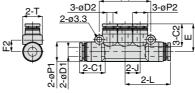


形式	Tube O.D. Ø D 1	Tube O.D. øD2	R					L2		øP1	øP2	Tube end C1	Tube end C2	F1	F2	Hex. H		Effective area (mm²)	Weight (g)	CAD file name
PKD6-4-01SUS	6	4	R1/8	8	68.5	18.5	34.3	30.2	10	13	10	17.1	15	34	8	12	13	5	23	PKD6-4-01SUS
PKD8-4-02SUS	8	4	R1/4	11	73.7	19.3	36.5	31.2	10	15	10	18.1	15	34	9.2	14	15	5.2	32	PKD8-4-02SUS
PKD8-6-02SUS	8	6	H 1/4	11	80.7	21.4	40	34.7	12	15	13	10.1	17.1	40.2	9	14	15	9.6	35	PKD8-6-02SUS
PKD10-8-03SUS	10	8	R3/8	12	93.2	23.7	46.7	40.2	14	17.5	15	20.9	18.1	46.2	10.5	17	17.5	19.1	57	PKD10-8-03SUS

* . "L1" is a reference value for height dimension after tightening thread.







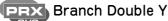
3-øD2

Unit: mm

CAD

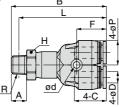
CAD

Model code	Tube O.D. øD1	Tube O.D. øD2				øP1	øP2	Tube end C1	Tube end C2		F2		Effective area (mm²)		CAD file name
PKG6-4SUS	6	4	30.2	18.5	10	13	10	17.1	15	34	8	13	5	16	PKG6-4SUS
PKG8-4SUS	8	4	31.2	19.3	10	15	10	18.1	15	34	9.2	15	6	19	PKG8-4SUS
PKG8-6SUS	0	6	34.7	21.4	12	15	13	10.1	17.1	40.2	9	15	10.1	23	PKG8-6SUS
PKG10-6SUS	10	6	40.2	23.9	14	17.5	15	20.9	17.1	46.2	10.5	17.5	11.2	31	PKG10-6SUS
PKG10-8SUS	10	8	40.2	23.7	14	17.5	15	20.9	18.1	40.2	10.5	17.5	19.1	33	PKG10-8SUS











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fective area mm²)	Weight (g)	CAD file name	
1.5	21	PRX4-01SUS	
1 4	28	PRX4-02SUS	

Unit: mm

10.5 15 3.2 14.3 20.5 10 PRX4-02SUS 42.8 14 1.4 R1/4 11 48.8 PRX6-01SUS 8 14 3.5 15.9 9 PRX6-01SUS 6 R1/8 50.4 46.4 13 17.1 13 26

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

8 45.8 41.8

R1/8

PRX4-01SUS

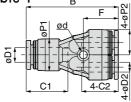
PRG Unequal Double Y

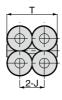












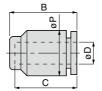
Unit: mm

Model code	Tube O.D. øD1	Tube O.D. øD2		øP1	øP2	Tube end C1	Tube end C2					Effective area (mm²)	Weight (g)	CAD file name
PRG6-4SUS	6	4	37.7	13	10.5	17.1	15	10	3.2	14.3	20.5	1.5	14	PRG6-4SUS
PRG8-6SUS	8	6	42.1	14	13	18.2	17.1	13	3.5	15.9	26	8.2	21	PRG8-6SUS















Unit: mm



Model code	Tube O.D. øD		øР	С	Weight (g)	CAD file name
PPF4SUS	4	16.5	10	15	2.4	PPF4SUS
PPF6SUS	6	18.6	12.5	17.1	3.2	PPF6SUS
PPF8SUS	8	19.9	14.5	18.4	4.6	PPF8SUS
PPF10SUS	10	22.5	17.5	20.9	7.6	PPF10SUS
PPF12SUS	12	25.1	21	23.1	12	PPF12SUS

⚠ SAFETY Instructions

This safety instructions aim to prevent personal injury and damage to properties by requiring proper use of PISCO products.

Be certain to follow ISO 4414 and JIS B 8370

ISO 4414: Pneumatic fluid power...Recomendations for the application of equipment to transmission and control systems.

JIS B 8370: General rules and safety requirements for systems and their components.

This safety instructions is classified into "Danger", "Warning" and "Caution" depending on the degree of danger or damages caused by improper use of PISCO products.

Danger Hazardous conditions. It can cause death or serious personal injury.

Warning Hazardous conditions depending on usages. Improper use of PISCO products can cause death or serious personal injury.

Products can cause personal injury or damages to properties.

↑ Warning I

- 1. Selection of pneumatic products
 - ① A user who is a pneumatic system designer or has sufficient experience and technical expertise should select PISCO products.
 - 2 Due to wide variety of operating conditions and applications for PISCO products, carry out the analysis and evaluation on PISCO products. The pneumatic system designer is solely responsible for assuring that the user's requirements are met and that the application presents no health or safety hazards. All designers are required to fully understand the specifications of PISCO products and constitute all systems based on the latest catalog or information, considering any malfunctions.
- 2. Handle the pneumatic equipment with enough knowledge and experience
 - ① Improper use of compressed air is dangerous. Assembly, operation and maintenance of machines using pneumatic equipment should be conducted by a person with enough knowledge and experience.
- 3. Do not operate machine / equipment or remove pneumatic equipment until safety is confirmed.
 - ① Make sure that preventive measures against falling work-pieces or sudden movements of machine are completed before inspection or maintenance of these machine.
 - ② Make sure the above preventive measures are completed. A compressed air supply and the power supply to the machine must be off, and also the compressed air in the systems must be exhausted.
 - ③ Restart the machines with care after ensuring to take all preventive measures against sudden movements.



Disclaimer

- PISCO does not take any responsibility for any incidental or indirect loss, such as production line stop, interruption of business, loss of benefits, personal injury, etc., caused by any failure on use or application of PISCO products.
- PISCO does not take any responsibility for any loss caused by natural disasters, fires not related to PISCO products, acts by third parties, and intentional or accidental damages of PISCO products due to incorrect usage.
- 3. PISCO does not take any responsibility for any loss caused by improper usage of PISCO products such as exceeding the specification limit or not following the usage the published instructions and catalog allow.
- PISCO does not take any responsibility for any loss caused by remodeling of PISCO products, or by combinational use with non-PISCO products and other software systems.
- 5. The damages caused by the defect of Pisco products shall be covered but limited to the full amount of the PISCO products paid by the customer.

⚠ SAFETY INSTRUCTION MANUAL

PISCO products are designed and manufactured for use in general industrial machines. Be sure to read and follow the instructions below.

- 1. Do not use PISCO products for the following applications.
 - ① Equipment used for maintaining / handling human life and body.
 - 2 Equipment used for moving / transporting human.
 - ③ Equipment specifically used for safety purposes.

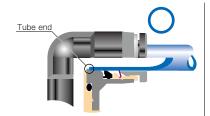
- 1. Do not use PISCO products under the following conditions.
 - ① Beyond the specifications or conditions stated in the catalog, or the instructions.
 - ② Under the direct sunlight or outdoors.
 - ③ Excessive vibrations and impacts.
 - 4 Exposure / adhere to corrosive gas, inflammable gas, chemicals, seawater, water and vapor. *
 - *Some products can be used under the condition above(4), refer to the details of specification and condition of each product.
- 2. Do not disassemble or modify PISCO products, which affect the performance, function, and basic structure of the product.
- 3. Turn off the power supply, stop the air supply to PISCO products, and make sure there is no residual air pressure in the pipes before maintenance and inspection.
- 4. Do not touch the release-ring of push-in fitting when there is a working pressure. The lock may be released by the physical contact, and tube may fly out or slip out.
- 5. Frequent switchover of compressed air may generate heat, and there is a risk of causing burn injury.
- 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.
- 7. 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.
- 8. 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°C (140° F) water or thermal oil. Other PISCO products can be damaged by heat and hydrolysis under the condition above.
- 9. 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.
- 10. Use only Fittings with a characteristic of spatter-proof such as Antispatter or Brass series in a place where flame and weld spatter is produced. There is a risk of causing fire by sparks.
- 11. Turn off the power supply to PISCO products, and make sure there is no residual air pressure in the pipes and equipment before maintenance. Follow the instructions below in order to ensure safety.
 - $\ensuremath{\bigcirc}$ Make sure the safety of all systems related to PISCO products before maintenance.
 - ② Restart of operation after maintenance shall be proceeded with care after ensuring safety of the system by preventive measures against unexpected movements of machines and devices where pneumatic equipment is used.
 - ③ Keep enough space for maintenance when designing a circuit.
- 12. Take safety measures such as providing a protection cover if there is a risk of causing damages or fires on machine / facilities by a fluid leakage.

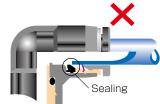


- 1. Remove dusts or drain before piping. They may get into the peripheral machine / facilities and cause malfunction.
- 2. When inserting an ultra-soft tube into push-in fitting, make sure to place an Insert Ring into the tube edge. There is a risk of causing the escape of tube and a fluid leakage without using an Insert Ring.
- 3. The product incorporating NBR as seal rubber material has a risk of malfunction caused by ozone crack. Ozone exists in high concentrations in static elimination air, clean-room, and near the high-voltage motors, etc. As a countermeasure, material change from NBR to HNBR or FKM is necessary. Consult with PISCO for more information.
- 4. Special option "Oil-free" products may cause a very small amount of a fluid leakage. When a fluid medium is liquid or the products are required to be used in harsh environments, contact us for further information.
- 5. In case of using non-PISCO brand tubes, make sure the tolerance of the outer tube diameter is within the limits of Table 1.
 - Table 1. Tube O.D. Tolerance

mm size	Nylon tube	Polyurethane tube	inch size	Nylon tube	Polyurethane tube
Ø1.8mm	_	\pm 0.05mm	Ø1/8	\pm 0.1mm	\pm 0.15mm
Ø3mm	_	± 0.15mm	Ø5/32	\pm 0.1mm	± 0.15mm
Ø4mm	\pm 0.1mm	± 0.15mm	Ø3/16	\pm 0.1mm	± 0.15mm
Ø6mm	\pm 0.1mm	± 0.15mm	Ø1/4	\pm 0.1mm	± 0.15mm
Ø8mm	\pm 0.1mm	± 0.15mm	Ø5/16	\pm 0.1mm	± 0.15mm
Ø10mm	\pm 0.1mm	± 0.15mm	Ø3/8	\pm 0.1mm	± 0.15mm
Ø12mm	\pm 0.1mm	± 0.15mm	Ø1/2	\pm 0.1mm	± 0.15mm
Ø16mm	\pm 0.1mm	± 0.15mm	Ø5/8	\pm 0.1mm	± 0.15mm

- 6. Instructions for Tube Insertion
 - ① Make sure that the cut end surface of the tube is at right angle without a scratch on the surface and deformations
 - ② When inserting a tube, the tube needs to be inserted fully into the pushin fitting until the tubing edge touches the tube end of the fitting as shown in the figure below. Otherwise, there is a risk of leakage.





Tube is not fully inserted up to tube end.

- ③ After inserting the tube, make sure it is inserted properly and not to be disconnected by pulling it moderately.
- **. When inserting tubes, Lock-claws may be hardly visible in the hole, observed from the front face of the release-ring. But it does not mean the tube will surely escape. Major causes of the tube escape are the followings;
 - (1) Shear drop of the lock-claws edge
 - ②The problem of tube diameter (usually small)

Therefore, follow the above instructions from 1 to 3, even lock-claws is hardly visible.

- 7. Instructions for Tube Disconnection
 - ① Make sure there is no air pressure inside of the tube, before disconnecting it.
 - ② Push the release-ring of the push-in fitting evenly and deeply enough to pull out the tube toward oneself. By insufficient pushing of the releasering, the tube may not be pulled out or damaged by scratch, and tube shavings may remain inside of the fitting, which may cause the leakage later.
- 8. Instructions for Installing a fitting
 - ① When installing a fitting, use proper tools to tighten a hexagonal-column or an inner hexagonal socket. When inserting a hex key into the inner hexagonal socket of the fitting, be careful so that the tool does not touch lock-claws. The deformation of lock-claws may result in a poor performance of systems or an escape of the tube.
 - ② Refer to Table 2 which shows the recommended tightening torque. Do not exceed these limits to tighten a thread. Excessive tightening may break the thread part or deform the gasket and cause a fluid leakage. Tightening thread with tightening torque lower than these limits may cause a loosened thread or a fluid leakage.
 - ③ Adjust the tube direction while tightening thread within these limits, since some PISCO products are not rotatable after the installation.
 - Table 2: Recommended tightening torque / Sealock color / Gasket materials

Thread type	Thread size	Tightening torque	Sealock color	Gasket materials
	$M3 \times 0.5$	0.7N·m		0110004
	M5 × 0.8	1.0 ~ 1.5N·m		SUS304 NBR
	M6 × 1	2 ~ 2.7N·m		NDN
Metric thread	M3 × 0.5	0.5 ~ 0.6N·m	_	
	$M5 \times 0.8$	1 ~ 1.5N·m		POM
	$M6 \times 0.75$	0.8 ~ 1N·m		POW
	$M8 \times 0.75$	1 ~ 2N·m		
	R1/8	7 ~ 9N·m		
Taper pipe thread	R1/4	12 ~ 14N·m	White	
Taper pipe trireau	R3/8	22 ~ 24N·m	vviille	_
	R1/2	28 ~ 30N·m		
Unified thread	No.10-32UNF	1.0 ~ 1.5N·m	_	SUS304、NBR
	1/16-27NPT	7 ~ 9N·m		
Nietienel nine	1/8-27NPT	7 ~ 9N·m		
National pipe thread taper	1/4-18NPT	12 ~ 14N·m	White	_
illieau lapei	3/8-18NPT	22 ~ 24N·m		
	1/2-14NPT	28 ~ 30N·m		

- * These values may differ for some products. Refer to each specification as well.
- 9. Instructions for removing a fitting
 - ① When removing a fitting, use proper tools to loosen a hexagonal-column or an inner hex bolt.
 - ② Remove the sealant stuck on the mating equipment. The remained sealant may get into the peripheral equipment and cause malfunctions.
- 10. Arrange piping avoiding any load on fittings and tubes such as twist, tensile, moment load, shaking and physical impact. These may cause damages to fittings, tube deformations, bursting and the escape of tubes.

⚠ 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.

- 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°C (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.

1.In case of using non-PISCO brand tubes, make sure the tolerance of the outer tube diameter is within the following limits of Table 1.

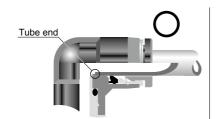
■ Table 1. Tube O.D. Tolerance

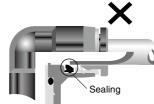
mm size	Nylon tube	Urethane tube
Ø1.8mm	_	\pm 0.05mm
Ø3mm	_	\pm 0.15mm
Ø4mm	\pm 0.1mm	\pm 0.15mm
Ø6mm	± 0.1mm	\pm 0.15mm
Ø8mm	\pm 0.1mm	\pm 0.15mm
Ø10mm	± 0.1mm	± 0.15mm
Ø12mm	± 0.1mm	± 0.15mm
Ø16mm	+ 0.1mm	+ 0.15mm

inch size	Nylon tube	Urethane tube
Ø1/8	\pm 0.1mm	\pm 0.15mm
Ø5/32	\pm 0.1mm	± 0.15mm
Ø3/16	\pm 0.1mm	± 0.15mm
Ø1/4	\pm 0.1mm	\pm 0.15mm
Ø5/16	\pm 0.1mm	± 0.15mm
Ø3/8	\pm 0.1mm	\pm 0.15mm
Ø1/2	\pm 0.1mm	± 0.15mm
Ø5/8	\pm 0.1mm	± 0.15mm

2 Instructions for Tube Insertion

- ① Make sure that the cut end surface of the tube is at right angle without a scratch on the tube surface and deformations.
- ② When inserting a tube, the tube needs to be inserted fully into the push-in fitting until the tubing edge touches the tube end of the fitting as shown in the figure below. Otherwise, there is a risk of leakage.





Tube is not fully inserted up to tube end.

- ③ After inserting the tube, make sure it is inserted properly and not to be disconnected by pulling it moderately.
- 3. Instructions for Tube Disconnection
 - ① Make sure there is no air pressure inside of the tube, before disconnecting it.
 - ② Push the release-ring of the push-in fitting evenly and deeply enough to pull out the tube toward oneself. By insufficient pushing of the release-ring, the tube may not be pulled out or damaged by scratch, and tube shavings may remain inside of the fitting, which may cause the leakage later.

4. Instructions for Installing a fitting

- ① When installing a fitting, use proper tools to tighten a hexagonal-column or an inner hexagonal socket. When inserting a hex key into the inner hexagonal socket of the fitting, be careful so that the tool does not touch lock-claws. The deformation of lock-claws may result in a poor performance of systems or an escape of the tube.
- ② Refer to Table 2 which shows the recommended tightening torque. Do not exceed these limits to tighten a thread. Excessive tightening may break the thread part or deform the gasket and cause a fluid leakage. Tightening thread with tightening torque lower than these limits may cause a loosened thread or a fluid leakage.
- ③ Adjust the tube direction while tightening thread within these limits, since some PISCO products are not rotatable the installation.

● Table 2: Recommended tightening torque / Sealock color / Gasket materials

Thread type	Thread size	Tightening torque	Sealock color	Gasket materials	
	$M3 \times 0.5$	0.7N·m		SUS304 NBR	
	$M5 \times 0.8$	1.0 ~ 1.5N·m			
	$M6 \times 1$	2 ~ 2.7N·m		NDIT	
Metric thread	$M3 \times 0.5$	0.5 ~0.6N·m	_		
	$M5 \times 0.8$	1 ~1.5N·m		POM	
	$M6 \times 0.75$	0.8 ~ 1N·m		FOW	
	$M8 \times 0.75$	1 ~ 2N·m			
	R1/8	7 ~ 9N·m		_	
Tanar pina throad	R1/4	12 ~ 14N·m	White		
Taper pipe thread	R3/8	22 ~ 24N·m	vviille		
	R1/2	28 ~ 30N·m			
Unified thread	No.10-32UNF	1.0 ~ 1.5N·m	_	SUS304、NBR	
	1/16-28NPT	7 ~ 9N·m			
Niedienel mine denemal	1/8-27NPT	7 ~ 9N·m			
National pipe thread	1/4-18NPT	12 ~ 14N·m	White	_	
taper	3/8-18NPT	22 ~ 24N·m			
	1/2-14NPT	28 ~ 30N·m			

^{*.} These values may differ for some products. Refer to each specification as well

5.Instructions for removng a fitting

- When removing a fitting, use proper tools to loosen a hexagonal-column or an inner hexagonal socket.
- ② Remove the sealant stuck on the mating equipment. The remained sealant may get into the peripheral equipment and cause malfunctions.
- 6. Arrange piping avoiding any load on fittings and tubes such as twist, tensile, moment load, shaking and physical impact. These may cause damages to fittings, tube deformations, bursting and the escape of tubes.



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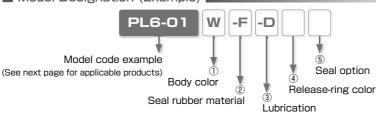
-to-order iproducts

PISCO offers make-to-order products to support customer's various requirements such as special specifications, and special appearances.

Special Options

- Characteristics
 - Color option
 Light-gray color option for resin body and release-ring.
 - Seal rubber material option
 Seal Rubber Selection: FKM or EPDM.
 - Oil-free option
 Suitable for Oil-free Environment.
 - Release-ring color option
 Changeable to Red Color
 - ●Non-purple option Suppress CU ion and F ion.
 - ** Note: With this option, Check Valve and Stop Fitting, etc. do not have marking on the brass parts. Be careful when piping.





1 Body color

Code	W	No code
Body color	Light-gray	Standard color

* . W: Release-ring color is light-gray

2 Seal rubber material

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

- * 1. FKM: Release-ring color is brown. Non-purple option is not available with FKM option.
- * 2. EPDM: All oil-free. Release-ring color is yellow.
- * 3. EPDM: Not available for Thread size M3, M6 and Fittings with Inch sized Tube dia.

3 Lubrication

Code	-D	No code
Option	Oil-free	Standard lubrication

- ¾ 1. Oil-free: Release-ring color is yellow.
- ※ 2. The products with oil-free option are assembled without intentional use of lubrication through its production process. It may cause problems such as degradation of airtightness and increase of friction.

4 Release-ring color

Code	-R	No code
Color	Red	Standard color

5 Seal option (Taper pipe thread only)

Code	-P	No code
Option	Non-purple	Standard

- * 1. Non-purple option is not available with seal rubber FKM
- * . See next page for "Reference Chart of Special Option" .
- *. Contact the nearest sales office for the price.

■ Reference Chart of Special Option

○ : Available、× : Not available

U . Avaliable, ★ . Not avaliable												
	St	andard	specif	ication				Spe	cial sp	ecifica		
			Release-									(5)
Series	Body Color and Packaging	Body	ring	rubber			Body color	Seal rubbe		Lubrication		Seal option
	Option			material		option	W*1	- F *2	-E*3	-D*4	-R	-P*2
							Light-gray	FKM	EPDM	Oil-free	Red	Non-purple
Tube Fitting Standard Series	_	Black	Black		Turbin oil		_	○*5	0	0	0	0
	Light-gray	Light-gray	Light-gray		- With sealock coat	Std. option	0	0	0	×	0	
	Clean-room pkg	Light-gray	Light-blue	, TOIT	Fluorochemical	THE SOURCE WAS	_	0	○*6	○*6	×	×
	Light-gray + Clean-room pkg	Light-gray	Light-gray		grease		Std. option	0	0	0	×	×
Tube Fitting Mini Series	_	Black	Black		Turbin oil		_	○*5	0	0	0	0
	Light-gray	Light-gray	Light-gray	NBR	Turbiii oii	- With sealock coat	Std. option	0	0	0	×	0
	Clean-room pkg	Light-gray	Light-blue	INDIT	Fluorochemical	HIEL SCOUCK WIGH	_	0	○*6	○*6	×	×
	Light-gray + Clean-room pkg	Light-gray	Light-gray		grease		Std. option	0	0	0	×	×
Tube Fitting Stainless SUS304 Series	_	Black	Dark-blue	FKM	Turbin oil	With sealock coat	×	Std. spec.	×	O*7	×	×
Tube Fitting Stainless SUS303 Equivalent Corrosivity Series	_	Black	Dark-blue	HNBR	Turbin oil	With sealock coat	0	0	○*7	O*7	×	0
Tube Fitting EG Series	_	Black	Black	NBR	Turbin oil	With sealock coat	×	0	○*8	×	×	0
Tube Fitting Brass Series	_	_	_	HNBR/FKM/NBR	Turbin oil	With sealock coat	×	Std. option	0	0	×	0
Tube Fitting Long Type	_	_	Black	NBR	Turbin oil	With sealock coat	×	○*5	0	0	0	0
Speed Controller Series	_	Black	Black		Turbin oil		_	○*5	×	×	0	0
	Light-gray	Light-gray	Light-gray	NBR	TUIDIII OII	- With sealock coat	Std. option	0	×	×	×	0
	Clean-room pkg	Light-gray	Light-blue	INDI	Fluorochemical	WILL SEAUCY COR	_	0	×	×	×	×
	Light-gray + Clean-room pkg	Light-gray	Light-gray		grease		Std. option	0	×	×	×	×
Speed Controller SUS303 Equivalent Corrosivity	_	Black	Dark-blue	HNBR	Turbin oil	With sealock coat	0	0	×	×	×	0
Throttle (Needle) Valve Standard Series	_	Black	Black		Turbin oil		_	○*5	×	×	0	0
	Light-gray	Light-gray	Light-gray	NBR	TUIDIII OII	- With sealock coat	Std. option	0	×	×	×	0
	Clean-room pkg	Light-gray	Light-blue	INDI	Fluorochemical grease	WILL SEAUCY COR	_	0	×	×	×	×
	Light-gray + Clean-room pkg	Light-gray	Light-gray				Std. option	0	×	×	×	×
Fixed Orifice Joint Series	_	Black	Black	NBR	Turbin oil	With sealock coat	0	0	0	0	○*9	0
Regulator Series (RVC, RVS, RVU, RVCM, RVUM)	_	Black	Black	NBR	Turbin oil	With sealock coat	0	×	×	×	○*9	0
Check Valve Series	_	Black	Black	NBR	Turbin oil	With sealock coat	○*10	×	×	×	○*9	0
Check Valve Series (Resin Type)	-	Light-gray	Light-gray	NBR	Turbin oil	With sealook coat	Std. option	×	×	×	×	0
W.1.W. Dalagge ving galay in light gray.												

- * 1. W: Release-ring color is light-gray
- *2. Seal option non-purple is not available with seal rubber material FKM
- * 3. EPDM: All oil-free. Release-ring color is yellow. Thread size M3, M6 and Fitting with inch sized Tube dia are not available.
- * 4. Release-ring color: Yellow.
- * 5. Release-ring color: Brown.
- % 6. Release-ring color: Light-blue.
- $\ensuremath{\%}$ 7. Release-ring color: Dark-blue.
- $\ensuremath{\%}$ 8. Release-ring color: Black
- # 9. Release-ring Red is not selectable with body color Light-gray.
- * 10. Not available for CVU4-4, CVU6-6 and CVU8-8.

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■ Reference chart of Apperance Color Combination (For Fitting)

	Resin color			Seal rubbe	er material	Lubrication	Release-ring color
Series		Tub		-F	-E	-D	-R
				FKM	EPDM		
		mm size					
		inch size					
		mm size	0)		0		
Tube Fitting Standard Series	Light-gray	inch size	0		0		
Tube Fitting Mini Series	Clean-room pkg Light-gray + Clean-room pkg	mm size					
		inch size	0		0	0	
		mm size					
		inch size	0		0	0	
Tube Fitting Stainless SUS304 Series	_	mm size		Std. spec.			
104 Film, Stainless SUSSIG Equivalent Corrosivity Series	_	mm size					
use units earniess socious chinagair rea irosuit, se po	Light-gray	mm size		0)		0	

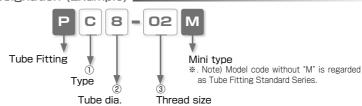
■ Reference chart of Apperance Color Combination (For Controller)

				-	
				Seal rubber material	Release-ring color
Series				-F FKM	-R レッド
		mm size	di di		
		inch size	1	o E	
	Light-gray	mm size	0	0	
Speed Controller Series		inch size		0	
Throttle (Needle) Valve Standard Series	Clean-room pkg	mm size			
		inch size	0	0	
	Light-gray + Clean-room pkg	mm size	0	0	
		inch size			

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Space-Saving Options

- Characteristics
 - Suitable for Installing in Limited Spaces.
- Model Designation (Example)



① Type

Code	Туре	Code	Туре	Code	Туре
L	Elbow	В	Branch Tee	D	Run Tee

² Tube dia.

Code	8	10
Size (mm)	Ø8	Ø10

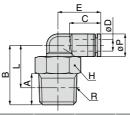
3 Thread size

Thread size	Taper pipe thread						
Code	01	02	03				
Size	R1/8	R1/4	R3/8				









Unit: mm

Model code	Tube O.D. øD	R			Tube end C		Hex. H		øΡ	Weight (g)
PL8-01M		R1/8	8	22.5	18.1	18.5	12	21.9	15	11.9
PL8-02M	8	R1/4	11	25.5		19.5	14			17.5
PL8-03M		R3/8	12	26.5		20.2	17			27.9
PL10-02M	10	R1/4	11	27	20.2	21	14	24.4	18	20.9
PL10-03M		R3/8	12	28		21.7	17			28.8

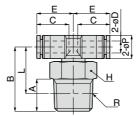
*. "L" is a reference value for height dimension after tightening thread.





Branch Tee





Unit: mm

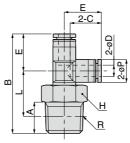
Model code	Tube O.D. øD	R	А	В	Tube end C	L	Hex. H	Е	øΡ	Weight (g)
PB8-01M		R1/8	8	22.5	18.1	18.5	12	21.9	15	12.8
PB8-02M	8	R1/4	11	25.5		19.5	14			18.2
PB8-03M		R3/8	12	26.5		20.2	17			26.1
PB10-02M	10	R1/4	11	27	20.2	21	14	24.4	18	22.3
PB10-03M		R3/8	12	28		21.7	17		10	30.4

 $\ensuremath{\text{\%}}$. "L" is a reference value for height dimension after tightening thread.









Unit: mm

Model code	Tube O.D. øD	R	А	В	Tube end C	L	Hex. H	Е	øΡ	Weight (g)
PD8-01M		R1/8	8	44.2	18.1	18.5	12	21.7	15	11.9
PD8-02M	8	R1/4	11	47.2		19.5	14			17.5
PD8-03M		R3/8	12	48.2		20.2	17			25.3
PD10-02M	10	R1/4	11	52.3	20.2	21	14	25.3	18	21
PD10-03M		R3/8	12	53.3		21.7	17		18	28.8

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