

Push-to-Connect Quick Fittings

For Pneumatic Applications

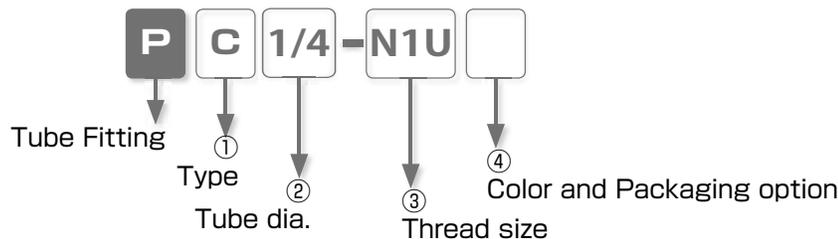




Push-In Fitting Type for Pneumatic Piping

- *Push-in fitting for General Pneumatic Piping.*
- *Redesigned 17 models, realized weight saving.*
(PC, PCF, POC, PM, PMF, PL, PLL, PLH, PLF, PVX, PAX, PB, PD, PX, PRX, PKD, PKVD)
- *Wide Variety of Products.*
- *Rotatable Resin Body after Installation.*
- *Centralized Piping.*
Triple type (PKD, PKG, PKJ) and twin triple type (PKVD, PKVG) are compact designed to achieve centralized piping.
- *Optional Selection of Clean-Room Package and Clean-wash Package.*

Model Designation (Example)



① Type

Code	Type	Code	Type	Code	Type	Code	Type
C	Straight	OC	Inner Hex. Straight	L	Elbow	LL	Long Elbow
LH	45° Elbow	H	Single Banjo	OL	Hex. Holed Banjo	B	Branch Tee
D	Run Tee	X	Branch Y	VX	Tripod Elbow	AX	Branch Elbow
A	Twin Banjo	RX	Double Branch Y	HW	Double Banjo	HT	Triple Banjo
AW	Double Twin Banjo	AT	Triple Twin Banjo	CF	Female Straight	MF	Bulkhead Female Straight
LF	Female Elbow	KD	Triple Run Tee	KVD	Twin Triple Run Tee	AF	Link-up Twin Banjo
HF	Link-up Banjo	U	Union Straight	E	Union Tee	V	Union Elbow
Y	Union Y	M	Bulkhead Union	MP	Bulkhead Union P	ML	Bulkhead Union Elbow
VU	Tripod Union	AU	Branch Union Elbow	ZA	Union Cross	G	Unequal Union Straight
EG	Unequal Union Tee	RG	Unequal Double Y	W	Unequal Union Y	KG	Unequal Triple Tee
KVG	Unequal Twin Triple Tee	ZB	Unequal Cross	ZC	Reducing Cross	GJ	Unequal Plug-in Straight
LJ	Plug-in Elbow	LGJ	Unequal Plug-in Elbow	LLGJ	Unequal Plug-in Long Elbow	LHJ	45° Plug-in Elbow
LLJ	Long Plug-in Elbow	YJ	Plug-in Y	WJ	Unequal Plug-in Y	KJ	Plug-in Triple Tee
RJ	Plug-in Double Y	F	Extension Screw Adaptor	FF	Unequal Screw Union	IJ	Union Stem
IG	Unequal Union Stem	TJ	PT Jack	PF	Cap	P	Plug

※ parts are redesigned models.

② Tube dia. (※ In case that ② indicates thread, select thread size from table ③)

Tube dia.	inch size							mm size					
	Code	5/32	3/16	1/4	5/16	3/8	1/2	5/8	4	6	8	10	12
Size (mm)	ø3.97	ø4.76	ø6.35	ø7.94	ø9.53	ø12.7	ø15.88	ø4	ø6	ø8	ø10	ø12	ø16

※ Visit [MINI](#) for 1/8" O.D. and smaller body fittings.

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

Thread size	UNF thread	NPT thread				
	Code	U10U	NOU	N1U	N2U	N3U
Size	10-32UNF	NPT1/16	NPT1/8	NPT1/4	NPT3/8	NPT1/2

※ The unit of wrench size is inch (the code suffix is "U").

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

※ R thread is same as BSPT

④ Color and Packaging option

Code	Color and Package classification	Color Combination		Remark
		Release ring (※)	Fitting body	
No code	Std.	Black, White	Black	
-C	Clean-room package	Light-blue, White	Light-gray, Black	Optional selection
W	Light-gray	Light-gray	Light-gray	Optional selection
W-C	Light-gray + Clean-room pkg.	Light-gray	Light-gray	Optional selection
-UC	Clean-wash and Clean-room pkg.	Light-blue	Light-gray	Optional selection

※ . Release-ring color is white for inch-size products.

※ . Imperial sizes - Clean-room Package comes with black body. Ask us for the options W, W-C, -UC

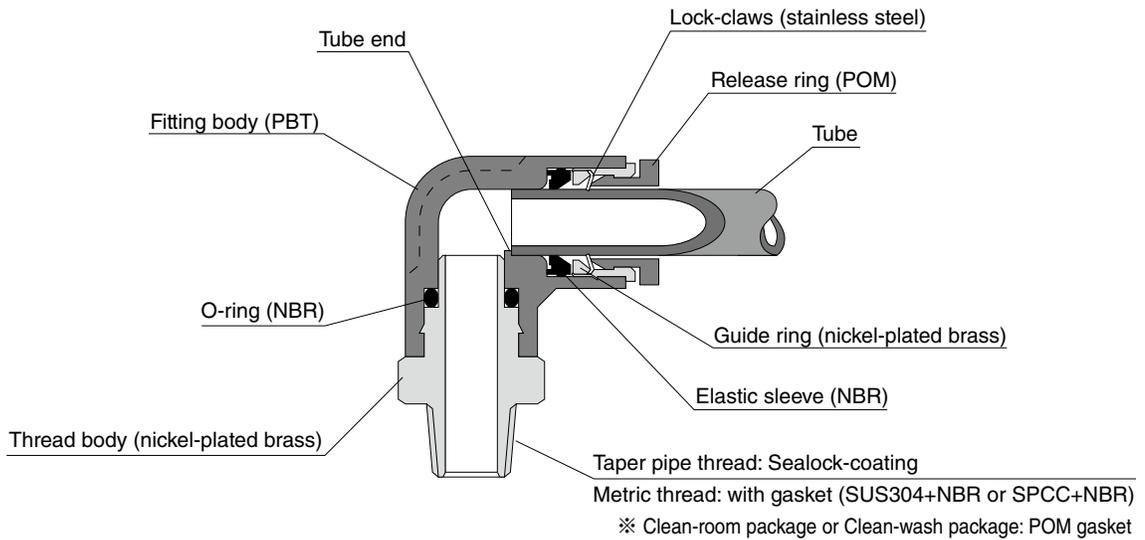
Specifications

Fluid medium	Air / Water (※)
Max. operating pressure	150psi (1.0MPa)
Max. vacuum	-29.5in. Hg (-100kPa)
Operating temp. range	32 ~ 140°F (0 ~ 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.
 2. Tap water can be used. Consult with PISCO for using other kind of water.
 3. Be sure to place Insert Ring into the tube edge when using water as a fluid medium.

Construction (Elbow: PL)



Detailed Safety Instructions

Before using PISCO products, be sure to read “Safety Instructions” and “Common Safety Instructions for Products Listed in This Catalog” and “Common Safety Instructions for Fittings”

Warning

1. When the fluid medium is water, do not use Tube Fitting Standard 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.

Caution

1. To adjust the direction of the elbow fitting after fixing PML (Bulkhead Union Elbow) type, turn it in the clock-wise (right) direction.
2. Attach a rubber washer to the aluminum nut side when installing PML (Bulkhead Union Elbow) type. The bulkhead parts may be loosened or the rubber washer may deform if attaching it to the hexagonal side.

Caution (Clean-room package, clean-wash package)

1. As for Push-In Fitting, the functional part where tube is inserted may slightly slide due to an internal pressure change and this may generate dusts. Avoid using the fitting in the clean room of ISO class from 1 to 5. Under the vibrating condition, check the amount of dust generated from the fitting and tubes, by using actual facilities.

Caution (Clean-wash package)

1. Tube insertion into the push-in fitting with clean-wash spec. is tighter than that of standard spec. due to its oil-free specification. Make sure to insert tube up to tube end.

Fitting Types and Combinations

PH	Single Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	10-32 UNF																		
	1/8 NPT	⊙																	
	1/4 NPT		⊙																
	3/8 NPT			⊙															
	1/2 NPT				⊙														
	M5 x 0.8		⊙	⊙															
	M6 x 1			⊙	⊙														
	R 1/8				⊙	⊙													
	R 1/4					⊙	⊙												
	R 3/8						⊙	⊙											
R 1/2							⊙	⊙											

PHF	Link-up Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	M5 x 0.8		⊙																
	R 1/8																		
	R 1/4																		
	R 3/8																		
	R 1/2																		

PHW	Double Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	1/8 NPT		⊙																
	1/4 NPT			⊙															
	3/8 NPT				⊙														
	1/2 NPT					⊙													
	R 1/8																		
	R 1/4																		
R 3/8																			
R 1/2																			

PHT	Triple Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	1/8 NPT																		
	1/4 NPT		⊙																
	3/8 NPT			⊙															
	1/2 NPT				⊙														
	R 1/8																		
	R 1/4																		
	R 3/8																		
	R 1/2																		

PA	Twin Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	10-32 UNF																		
	1/8 NPT		⊙																
	1/4 NPT			⊙															
	3/8 NPT				⊙														
	1/2 NPT					⊙													
	M5 x 0.8																		
	M6 x 1																		
	R 1/8																		
	R 1/4																		
	R 3/8																		
R 1/2																			

PAF	Link-up Twin Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	M5 x 0.8																		
	R 1/8																		
	R 1/4																		
	R 3/8																		
	R 1/2																		

PAW	Double Twin Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	1/8 NPT																		
	1/4 NPT		⊙																
	3/8 NPT			⊙															
	1/2 NPT				⊙														
	R 1/8																		
	R 1/4																		
	R 3/8																		
	R 1/2																		

PAT	Triple Twin Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	1/8 NPT																		
	1/4 NPT		⊙																
	3/8 NPT			⊙															
	1/2 NPT				⊙														
	R 1/8																		
	R 1/4																		
	R 3/8																		
	R 1/2																		

PB	Branch Tee	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	10-32 UNF		•																
	1/16 NPT		•																
	1/8 NPT		•																
	1/4 NPT			•															
	3/8 NPT				•														
	1/2 NPT					•													
	M3 x 0.5		•																
	M5 x 0.8			•															
	M6 x 1				•														
	R 1/8																		
	R 1/4																		
	R 3/8																		
	R 1/2																		

PD	Run Tee	Thread					
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PKJ	Plug-in Triple Tee	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		4																	
		6																	
		8																	

PU	Union Straight	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		1/8	•																
		5/32		•															
		3/16			•														
		1/4				•													
		5/16					•												
		3/8						•											
		1/2							•										
		5/8								•									
		1.8									•								
		2										•							
		3											•						
		4												•					
		6													•				

PG	Unequal Union Straight	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		1/8	•																
		5/32		•															
		1/4			•														
		5/16				•													
		3/8					•												
		1/2						•											
		1.8							•										
		2								•									
		3									•								
		4										•							
		6											•						
		8												•					
		10													•				

PM	Bulkhead Union	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		1/8	•																
		5/32		•															
		3/16			•														
		1/4				•													
		5/16					•												
		3/8						•											
		1/2							•										
		1.8								•									
		2									•								
		3										•							
		4											•						
		6												•					
		8													•				

PMP	Bulkhead Union P	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		5/32		•															
		1/4			•														
		5/16				•													
		3/8					•												
		1/2						•											
		4																	
		6																	
		8																	
		10																	
		12																	

PV	Union Elbow	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		1/8	•																
		5/32		•															
		3/16			•														
		1/4				•													
		5/16					•												
		3/8						•											
		1/2							•										
		5/8								•									
		1.8									•								
		2										•							
		3											•						
		4												•					
		6													•				

PML	Bulkhead Union Elbow	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		5/32		•															
		1/4			•														
		5/16				•													
		3/8					•												
		1/2						•											
		4																	
		6																	
		8																	
		10																	
		12																	

PE	Union Tee	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		1/8	•																
		5/32		•															
		3/16			•														
		1/4				•													
		5/16					•												
		3/8						•											
		1/2							•										
		5/8								•									
		1.8									•								
		2										•							
		3											•						
		4												•					
		6													•				

PEG	Unequal Union Tee	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		1/8	•																
		5/32		•															
		1/4			•														
		5/16				•													
		3/8					•												
		1/2						•											
		1.8																	
		2																	
		3																	
		4																	
		6																	
		8																	
		10																	

⊙ = Standard Fitting
• = Mini Fitting

Additional combinations may be available.
Please contact Koganei for any inquiries.



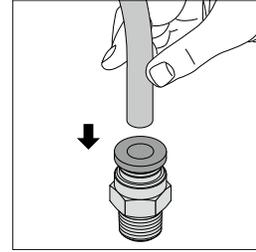
■ How to insert and disconnect

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.

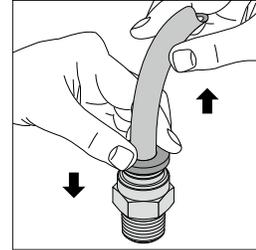
Refer to “6. Instructions for Tube Insertion” under “Common Safety Instructions for Products Listed in This Catalog”.



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.

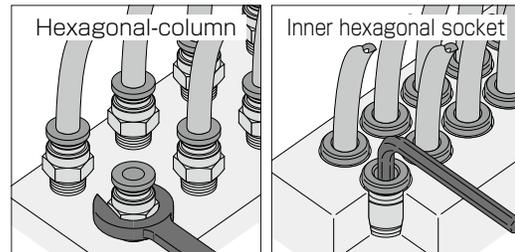


2. How to tighten thread

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 hexagonal type can save spaces.

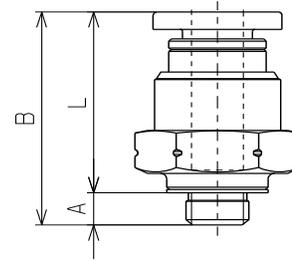
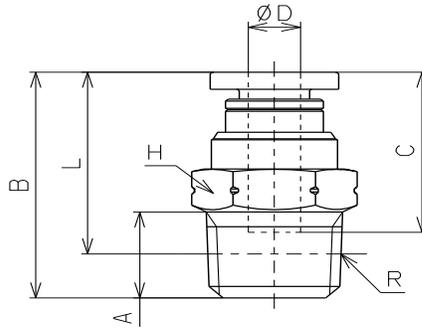
Refer to “Table 2: Tightening torque / Sealock color / Gasket materials” under “8. Instructions for Installing a fitting” in “Common Safety Instructions for Products Listed in This Catalog”.





Straight

RoHS compliant



Unified thread

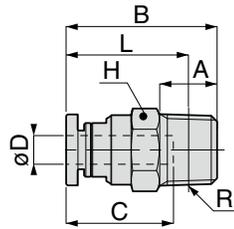
❖ NPT and UNF thread

unit: inch

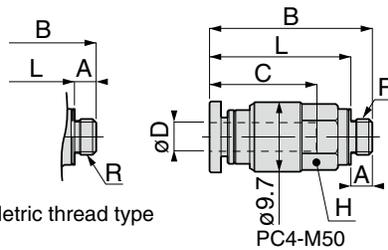
Model	Tube O.D. φD	R	A	B	L	C	Hex.	Orifice (φ mm)	Weight (g)
PC4-U10U	4mm	No.10-32UNF	0.11	0.78	0.67	0.59	7/16	2.4	6.2
PC4-N0U	4mm	1/16-27NPT	0.31	0.83	0.67	0.59	7/16	2.4	6.5
PC4-N1U	4mm	1/8-27NPT	0.31	0.83	0.67	0.59	7/16	3	8.3
PC4-N2U	4mm	1/4-18NPT	0.43	0.89	0.66	0.59	9/16	3	17
PC6-U10U	6mm	No.10-32UNF	0.11	0.86	0.75	0.67	1/2	2.4	8.7
PC6-N0U	6mm	1/16-27NPT	0.31	1.03	0.87	0.67	1/2	2.4	11
PC6-N1U	6mm	1/8-27NPT	0.31	0.88	0.71	0.67	1/2	5	8.8
PC6-N2U	6mm	1/4-18NPT	0.43	0.93	0.70	0.67	9/16	5	15
PC6-N3U	6mm	3/8-18NPT	0.47	0.96	0.72	0.67	11/16	5.3	30
PC8-N1U	8mm	1/8-27NPT	0.31	1.10	0.94	0.72	9/16	6	14
PC8-N2U	8mm	1/4-18NPT	0.43	1.05	0.82	0.72	9/16	7	15
PC8-N3U	8mm	3/8-18NPT	0.47	1.00	0.76	0.72	11/16	7	26
PC10-N1U	10mm	1/8-27NPT	0.31	1.19	1.03	0.81	11/16	6	23
PC10-N2U	10mm	1/4-18NPT	0.43	1.17	0.94	0.81	11/16	8.5	20
PC10-N3U	10mm	3/8-18NPT	0.47	1.15	0.91	0.81	11/16	9	25
PC10-N4U	10mm	1/2-14NPT	0.59	1.20	0.88	0.81	7/8	9	48
PC12-N2U	12mm	1/4-18NPT	0.43	1.41	1.19	0.92	7/8	8.5	39
PC12-N3U	12mm	3/8-18NPT	0.47	1.26	1.02	0.92	7/8	11	32
PC12-N4U	12mm	1/2-14NPT	0.59	1.33	1.02	0.92	7/8	11	46
PC16-N3U	16mm	3/8-18NPT	0.47	1.55	1.31	0.98	1	11	61
PC16-N4U	16mm	1/2-14NPT	0.59	1.63	1.31	0.98	1	13	69
PC5/32-U10U	5/32	No.10-32UNF	0.11	0.78	0.67	0.59	7/16	2.4	6.2
PC5/32-N0U	5/32	1/16-27NPT	0.31	0.83	0.67	0.59	7/16	3	6.5
PC5/32-N1U	5/32	1/8-27NPT	0.31	0.83	0.67	0.59	7/16	3	8.3
PC5/32-N2U	5/32	1/4-18NPT	0.43	0.89	0.66	0.59	9/16	3	17
PC3/16-U10U	3/16	No.10-32UNF	0.11	0.88	0.77	0.69	1/2	2.4	9.2
PC3/16-N0U	3/16	1/16-27NPT	0.31	1.05	0.89	0.69	1/2	3	12
PC3/16-N1U	3/16	1/8-27NPT	0.31	0.89	0.73	0.69	1/2	4	10
PC3/16-N2U	3/16	1/4-18NPT	0.43	0.95	0.72	0.69	9/16	4	16
PC3/16-N3U	3/16	3/8-18NPT	0.47	0.98	0.74	0.69	11/16	4	30
PC1/4-U10U	1/4	No.10-32UNF	0.11	0.86	0.75	0.67	1/2	2.4	8.6
PC1/4-N0U	1/4	1/16-27NPT	0.31	1.03	0.87	0.67	1/2	3	11
PC1/4-N1U	1/4	1/8-27NPT	0.31	0.88	0.71	0.67	1/2	5.3	8.6
PC1/4-N2U	1/4	1/4-18NPT	0.43	0.93	0.70	0.67	9/16	5.3	15
PC1/4-N3U	1/4	3/8-18NPT	0.47	0.96	0.72	0.67	11/16	5.3	29
PC5/16-N1U	5/16	1/8-27NPT	0.31	1.10	0.94	0.72	9/16	6	14
PC5/16-N2U	5/16	1/4-18NPT	0.43	1.05	0.82	0.72	9/16	7	15
PC5/16-N3U	5/16	3/8-18NPT	0.47	1.00	0.76	0.72	11/16	7	26
PC3/8-N1U	3/8	1/8-27NPT	0.31	1.19	1.03	0.81	11/16	6	23
PC3/8-N2U	3/8	1/4-18NPT	0.43	1.17	0.94	0.81	11/16	8.5	20
PC3/8-N3U	3/8	3/8-18NPT	0.47	1.15	0.91	0.81	11/16	8.5	26
PC3/8-N4U	3/8	1/2-14NPT	0.59	1.20	0.88	0.81	7/8	8.5	49
PC1/2-N2U	1/2	1/4-18NPT	0.43	1.41	1.18	0.91	7/8	8.5	38
PC1/2-N3U	1/2	3/8-18NPT	0.47	1.25	1.01	0.91	7/8	11	31
PC1/2-N4U	1/2	1/2-14NPT	0.59	1.33	1.01	0.91	7/8	11	45
PC5/8-N3U	5/8	3/8-18NPT	0.47	1.55	1.31	0.98	1	11	61
PC5/8-N4U	5/8	1/2-14NPT	0.59	1.63	1.31	0.98	1	13	69

PC Straight

RoHS compliant



Metric thread type



PC4-M50

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	Tube end C	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name	
PC4-M5④	4	M5 × 0.8	2.8 [3]	19.8	17 [16.8]	14.9	10	2.4	5.6	PC4-M5_[C]	
PC4-M50④				22.7	19.9 [19.7]		8		6.1	PC4-M50_[C]	
PC4-M6④		M6 × 1	3.8	20.8	17		10	3	6	PC4-M6_[C]	
PC4-01④		R1/8	8	21	17		10		7.4	PC4-01_	
PC4-02④		R1/4	11	22.5	16.5		14		16	PC4-02_	
PC6-M5④	6	M5 × 0.8	2.8 [3]	21.9	19.1 [18.9]	17	12	2.4	8.1	PC6-M5_[C]	
PC6-M6④				M6 × 1	3.8			22.9	19.1	3	8.5
PC6-01④		R1/8	8	22.3	18.3		14	5	8.2	PC6-01_	
PC6-02④		R1/4	11	23.7	17.6				15	PC6-02_	
PC6-03④		R3/8	12	24.5	18.1				17	28	PC6-03_
PC8-01④	8	R1/8	8	27.9	23.9	18.2	14	6	14	PC8-01_	
PC8-02④		R1/4	11	26.6	20.6				7	PC8-02_	
PC8-03④		R3/8	12	25.5	19.2		17	25	PC8-03_		
PC10-01④	10	R1/8	8	30.3	26.3	20.7	17	6	21	PC10-01_	
PC10-02④		R1/4	11	29.8	23.8			8.5	19	PC10-02_	
PC10-03④		R3/8	12	29.3	23		21	9	24	PC10-03_	
PC10-04④		R1/2	15	30.4	22.2				46	PC10-04_	
PC12-02④	12	R1/4	11	35.9	29.9	23.3	21	8.5	37	PC12-02_	
PC12-03④		R3/8	12	31.9	25.6			11	30	PC12-03_	
PC12-04④		R1/2	15	33.9	25.7			44	PC12-04_		
PC16-03④	16	R3/8	12	39.3	33	24.8	24	11	54	PC16-03_	
PC16-04④		R1/2	15	41.3	33.1			13	63	PC16-04_	
PC5/32-M5④	5/32	M5 × 0.8	2.8 [3]	19.8	17 [16.8]	14.9	10	2.4	5.6	PC5_32-M5_[C]	
PC5/32-01④				R1/8	8			21	17	3	7.4
PC5/32-02④		R1/4	11	22.5	16.5		14	16	PC5_32-02_		
PC3/16-M5④	3/16	M5 × 0.8	2.8 [3]	22.3	19.5 [19.3]	17.4	12	2.4	8.6	PC3_16-M5_[C]	
PC3/16-01④				R1/8	8			22.7	18.7	4	9
PC3/16-02④		R1/4	11	24.1	18		14	16	PC3_16-02_		
PC1/4-M5④	1/4	M5 × 0.8	2.8 [3]	21.9	19.1 [18.9]	17	12	2.4	8	PC1_4-M5_[C]	
PC1/4-01④				R1/8	8					22.3	18.3
PC1/4-02④		R1/4	11	23.7	17.6		17	28	PC1_4-02_		
PC1/4-03④		R3/8	12	24.5	18.1		17	28	PC1_4-03_		
PC5/16-01④	5/16	R1/8	8	27.9	23.9	18.2	14	6	14	PC5_16-01_	
PC5/16-02④		R1/4	11	26.6	20.6			7	PC5_16-02_		
PC5/16-03④		R3/8	12	25.5	19.2		17	25	PC5_16-03_		
PC3/8-01④	3/8	R1/8	8	30.3	26.3	20.7	17	6	22	PC3_8-01_	
PC3/8-02④		R1/4	11	29.8	23.8				8.5	19	PC3_8-02_
PC3/8-03④		R3/8	12	29.3	23		21	8.5	25	PC3_8-03_	
PC3/8-04④		R1/2	15	30.4	22.2				47	PC3_8-04_	
PC1/2-02④	1/2	R1/4	11	35.7	29.7	23.1	21	8.5	36	PC1_2-02_	
PC1/2-03④		R3/8	12	31.7	25.4				11	29	PC1_2-03_
PC1/2-04④		R1/2	15	33.7	25.5			43	PC1_2-04_		
PC5/8-03④	5/8	R3/8	12	39.3	33	24.8	24	11	54	PC5_8-03_	
PC5/8-04④		R1/2	15	41.3	33.1			13	63	PC5_8-04_	

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

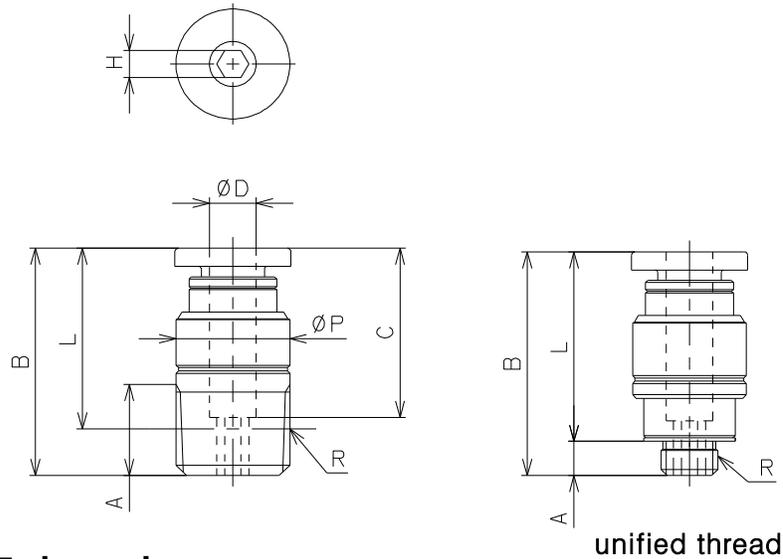
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 3. Dimensions in [] are for clean-room and clean-wash package products.

※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

POC Inner Hex. Straight

RoHS compliant



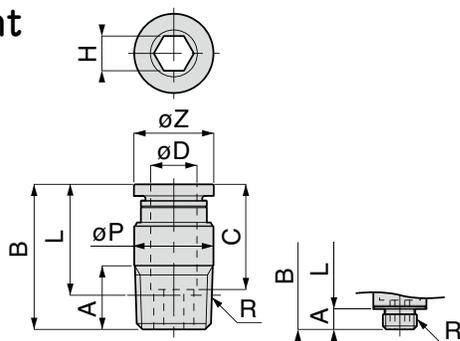
❖ NPT and UNF thread

unit: inch

Model	Tube O.D. ϕD	R	A	B	L	C	Hex.	ϕP	Orifice (ϕ mm)	Weight (g)
POC4-U10U	4mm	No.10-32UNF	0.11	0.78	0.67	0.59	3/32	0.38	2.5	4.6
POC4-N1U	4mm	1/8-27NPT	0.31	0.79	0.63	0.59	3/32	0.38	2.5	6.5
POC6-U10U	6mm	No.10-32UNF	0.11	0.84	0.73	0.67	3/32	0.46	2.5	5.6
POC6-N1U	6mm	1/8-27NPT	0.31	0.87	0.70	0.67	5/32	0.46	4.1	7.6
POC8-N1U	8mm	1/8-27NPT	0.31	1.02	0.86	0.72	3/16	0.54	5	9
POC8-N2U	8mm	1/4-18NPT	0.43	0.99	0.76	0.72	7/32	0.54	5.8	13
POC5/32-U10U	5/32	No.10-32UNF	0.11	0.78	0.67	0.59	3/32	0.38	2.5	4.6
POC5/32-N1U	5/32	1/8-27NPT	0.31	0.79	0.63	0.59	3/32	0.38	2.5	6.5
POC3/16-U10U	3/16	No.10-32UNF	0.11	0.85	0.74	0.69	3/32	0.46	2.5	6.1
POC3/16-N1U	3/16	1/8-27NPT	0.31	0.89	0.72	0.69	1/8	0.46	3.3	8.3
POC1/4-U10U	1/4	No.10-32UNF	0.11	0.84	0.73	0.67	3/32	0.46	2.5	5.6
POC1/4-N1U	1/4	1/8-27NPT	0.31	0.87	0.70	0.67	5/32	0.46	4.1	7.4
POC1/4-N2U	1/4	1/4-18NPT	0.43	0.84	0.61	0.67	5/32	0.54	4.1	13
POC5/16-N1U	5/16	1/8-27NPT	0.31	1.02	0.86	0.72	3/16	0.54	5	9
POC5/16-N2U	5/16	1/4-18NPT	0.43	0.99	0.76	0.72	7/32	0.54	5.8	13
POC5/16-N3U	5/16	3/8-18NPT	0.47	0.87	0.63	0.72	7/32	0.66	5.8	19
POC3/8-N1U	3/8	1/8-27NPT	0.31	1.19	1.03	0.81	3/16	0.69	5	18
POC3/8-N2U	3/8	1/4-18NPT	0.43	1.17	0.94	0.81	7/32	0.69	5.8	22
POC3/8-N3U	3/8	3/8-18NPT	0.47	1.15	0.91	0.81	7/32	0.69	5.8	28
POC3/8-N4U	3/8	1/2-14NPT	0.59	1.19	0.87	0.81	7/32	0.82	5.8	45
POC1/2-N2U	1/2	1/4-18NPT	0.43	1.41	1.18	0.91	7/32	0.82	5.8	30
POC1/2-N3U	1/2	3/8-18NPT	0.47	1.25	1.01	0.91	5/16	0.82	8.3	30
POC1/2-N4U	1/2	1/2-14NPT	0.59	1.33	1.01	0.91	5/16	0.82	8.3	44

POC Inner Hex. Straight

RoHS compliant



Metric thread type

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	Tube end C	Hex. H	øP	øZ	Orifice bore (ømm)	Weight (g)	CAD file name
POC4-M5④	4	M5×0.8	2.8 [3]	19.7	16.9 [16.7]	14.9	2.5	9.7	9.9	2.6	4.6	POC4-M5_[C]
POC4-M6④		M6×1	3.8	20.7	16.9						5.4	POC4-M6_[C]
POC4-01④		R1/8	8	20	16						6.6	POC4-01_
POC6-M5④	6	M5×0.8	2.8 [3]	21.3	18.5 [18.3]	17	2.5	11.8	11.8	2.6	5.6	POC6-M5_[C]
POC6-M6④		M6×1	3.8	22.3	18.5		3			6.3	POC6-M6_[C]	
POC6-01④		R1/8	8	22.1	18.1		4			7.6	POC6-01_	
POC6-02④		R1/4	11	21.3	15.2		4	13	POC6-02_			
POC8-01④	8	R1/8	8	25.9	21.9	18.2	5	13.7	13.8	5.3	8.8	POC8-01_
POC8-02④		R1/4	11	25.1	19.1		6			13	POC8-02_	
POC8-03④		R3/8	12	22.2	15.9		6			19	POC8-03_	
POC10-01④	10	R1/8	8	30.3	26.3	20.7	5	17.5	16.8	5.3	17	POC10-01_
POC10-02④		R1/4	11	29.8	23.8		6			20	POC10-02_	
POC10-03④		R3/8	12	29.3	23		6			26	POC10-03_	
POC10-04④		R1/2	15	30.3	22.1		6	45	POC10-04_			
POC12-02④	12	R1/4	11	35.9	29.9	23.3	6	20.8	19.8	6.3	29	POC12-02_
POC12-03④		R3/8	12	31.9	25.6		8			31	POC12-03_	
POC12-04④		R1/2	15	33.9	25.7		8			45	POC12-04_	
POC16-03④	16	R3/8	12	39.3	33	24.8	10	26	23	10.5	61	POC16-03_
POC16-04④		R1/2	15	40.3	32.1		12			65	POC16-04_	
POC1/4-M5④	1/4	M5×0.8	2.8 [3]	21.3	18.5 [18.3]	17	2.5	11.8	11.8	2.6	5.6	POC1_4-M5_[C]
POC1/4-01④		R1/8	8	22.1	18.1		4			7.5	POC1_4-01_	
POC1/4-02④		R1/4	11	21.3	15.2		4			12	POC1_4-02_	
POC5/16-01④	5/16	R1/8	8	25.9	21.9	18.2	5	13.7	13.8	5.3	8.8	POC5_16-01_
POC5/16-02④		R1/4	11	25.1	19.1		6			13	POC5_16-02_	
POC5/16-03④		R3/8	12	22.2	15.9		6			19	POC5_16-03_	
POC3/8-02④	3/8	R1/4	11	29.8	23.8	20.7	6	17.5	16.8	6.3	21	POC3_8-02_
POC3/8-03④		R3/8	12	29.3	23						27	POC3_8-03_
POC3/8-04④		R1/2	15	30.3	22.1						27	46

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

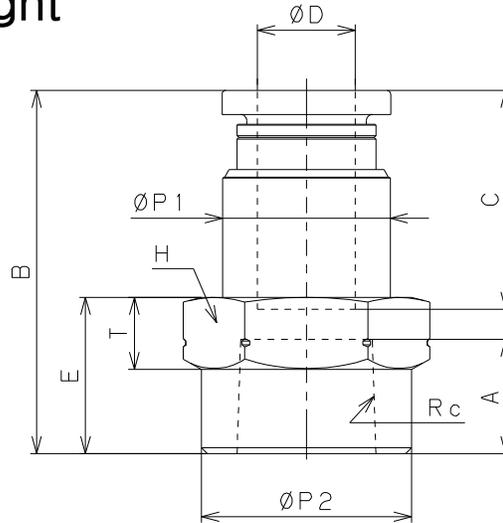
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 3. Dimensions in [] are for clean-room and clean-wash package products.

※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

PCF Female Straight

RoHS compliant



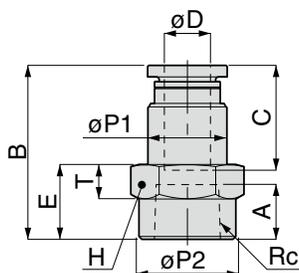
❖ **NPT and UNF thread**

unit: inch

Model	Tube O.D. φD	Rc	A	B	E	φP1	φP2	C	Hex.	T	Orifice (φ mm)	Weight (g)
PCF4-N1U	4mm	1/8-27NPT	0.28	0.94	0.39	0.38	0.54	0.59	9/16	0.20	3	13
PCF4-N2U	4mm	1/4-18NPT	0.37	1.06	0.51	0.38	0.68	0.59	11/16	0.24	3	20
PCF6-N1U	6mm	1/8-27NPT	0.28	1.02	0.39	0.46	0.54	0.67	9/16	0.20	5	15
PCF6-N2U	6mm	1/4-18NPT	0.37	1.14	0.51	0.46	0.68	0.67	11/16	0.24	5	22
PCF8-N1U	8mm	1/8-27NPT	0.28	1.07	0.39	0.54	0.54	0.72	9/16	0.20	7	16
PCF8-N2U	8mm	1/4-18NPT	0.37	1.19	0.51	0.54	0.68	0.72	11/16	0.24	7	23
PCF10-N2U	10mm	1/4-18NPT	0.37	1.29	0.51	0.69	0.66	0.81	11/16	0.24	9	29
PCF12-N2U	12mm	1/4-18NPT	0.37	1.37	0.53	0.82	0.66	0.92	7/8	0.26	11	44
PCF12-N3U	12mm	3/8-18NPT	0.41	1.43	0.55	0.82	0.86	0.92	7/8	0.26	11	48
PCF5/32-U10U	5/32	No.10-32UNF	0.18	0.84	0.31	0.38	0.35	0.59	7/16	0.16	3	8.2
PCF5/32-N1U	5/32	1/8-27NPT	0.28	0.94	0.39	0.38	0.54	0.59	9/16	0.20	3	13
PCF5/32-N2U	5/32	1/4-18NPT	0.37	1.06	0.51	0.38	0.68	0.59	11/16	0.24	3	20
PCF3/16-U10U	3/16	No.10-32UNF	0.20	0.88	0.35	0.46	0.35	0.69	1/2	0.20	3.9	11
PCF3/16-N1U	3/16	1/8-27NPT	0.28	1.04	0.39	0.46	0.54	0.69	9/16	0.20	4	15
PCF3/16-N2U	3/16	1/4-18NPT	0.37	1.16	0.51	0.46	0.68	0.69	11/16	0.24	4	23
PCF1/4-U10U	1/4	No.10-32UNF	0.20	0.87	0.35	0.46	0.35	0.67	1/2	0.20	3.9	10
PCF1/4-N1U	1/4	1/8-27NPT	0.28	1.02	0.39	0.46	0.54	0.67	9/16	0.20	5.3	15
PCF1/4-N2U	1/4	1/4-18NPT	0.37	1.14	0.51	0.46	0.68	0.67	11/16	0.24	5.3	22
PCF1/4-N3U	1/4	3/8-18NPT	0.41	1.18	0.55	0.46	0.86	0.67	7/8	0.26	5.3	33
PCF5/16-N1U	5/16	1/8-27NPT	0.28	1.07	0.39	0.54	0.54	0.72	9/16	0.20	7	16
PCF5/16-N2U	5/16	1/4-18NPT	0.37	1.19	0.51	0.54	0.68	0.72	11/16	0.24	7	23
PCF5/16-N3U	5/16	3/8-18NPT	0.41	1.23	0.55	0.54	0.86	0.72	7/8	0.26	7	34
PCF3/8-N1U	3/8	1/8-27NPT	0.28	1.17	0.43	0.69	0.54	0.81	11/16	0.24	8.3	27
PCF3/8-N2U	3/8	1/4-18NPT	0.37	1.29	0.51	0.69	0.66	0.81	11/16	0.24	8.5	29
PCF3/8-N3U	3/8	3/8-18NPT	0.41	1.33	0.55	0.69	0.86	0.81	7/8	0.26	8.5	41
PCF1/2-N2U	1/2	1/4-18NPT	0.37	1.36	0.53	0.82	0.66	0.91	7/8	0.26	11	43
PCF1/2-N3U	1/2	3/8-18NPT	0.41	1.42	0.55	0.82	0.86	0.91	7/8	0.26	11	47
PCF1/2-N4U	1/2	1/2-14NPT	0.51	1.54	0.67	0.82	0.99	0.91	1	0.28	11	58

PCF Female Straight

RoHS compliant



Unit : mm

Model code	Tube O.D. ϕD	Rc	A	B	E	$\phi P1$	$\phi P2$	Tube end C	Hex. H	T	Orifice bore (ϕ mm)	Weight (g)	CAD file name	
PCF4-M5④	4	M5×0.8	4.5	21.4	8	9.7	9	14.9	10	4	3	7.6	PCF4-M5_	
PCF4-01④		Rc1/8	7	23.9	10				13.8	14		5	13	PCF4-01_
PCF4-02④		Rc1/4	9.5	26.9	13				16.8	17		6	19	PCF4-02_
PCF6-M5④	6	M5×0.8	5	22	9	11.8	9	17	12	5	4.1	9.5	PCF6-M5_	
PCF6-01④		Rc1/8	7	26	10				13.8			14	5	15
PCF6-02④		Rc1/4	9.5	29	13				16.8	17		6	21	PCF6-02_
PCF6-03④		Rc3/8	10.5	30	14				20.8	21		6.5	29	PCF6-03_
PCF8-01④	8	Rc1/8	7	27.2	10	13.7	13.8	18.2	14	5	7	16	PCF8-01_	
PCF8-02④		Rc1/4	9.5	30.2	13				16.8	17		6	22	PCF8-02_
PCF8-03④		Rc3/8	10.5	31.2	14				20.8	21		6.5	30	PCF8-03_
PCF10-02④	10	Rc1/4	9.5	32.7	13	17.5	16.8	20.7	17	6	9	28	PCF10-02_	
PCF10-03④		Rc3/8	10.5	33.7	14				20.8	21		6.5	37	PCF10-03_
PCF12-02④	12	Rc1/4	9.5	34.8	13.5	20.8	16.8	23.3	21	6.5	11	42	PCF12-02_	
PCF12-03④		Rc3/8	10.5	36.3	14				20.8	24		7	44	PCF12-03_
PCF12-04④		Rc1/2	13	39.3	17				25	24		7	54	PCF12-04_
PCF16-03④	16	Rc3/8	10.5	37.3	15.5	26	20.8	24.8	27	8	14.2	71	PCF16-03_	
PCF16-04④		Rc1/2	13	40.8	18				25	27	8	15	76	PCF16-04_
PCF5/32-01④	5/32	Rc1/8	7	23.9	10	9.7	13.8	14.9	14	5	3	13	PCF5_32-01_	
PCF5/32-02④		Rc1/4	9.5	26.9	13				16.8	17		6	19	PCF5_32-02_
PCF3/16-01④	3/16	Rc1/8	7	26.4	10	11.8	13.8	17.4	14	5	4	16	PCF3_16-01_	
PCF3/16-02④		Rc1/4	9.5	29.4	13				16.8	17		6	22	PCF3_16-02_
PCF1/4-01④	1/4	Rc1/8	7	26	10	11.8	13.8	17	14	5	5.3	15	PCF1_4-01_	
PCF1/4-02④		Rc1/4	9.5	29	13				16.8	17		6	21	PCF1_4-02_
PCF1/4-03④		Rc3/8	10.5	30	14				20.8	21		6.5	29	PCF1_4-03_
PCF5/16-01④	5/16	Rc1/8	7	27.2	10	13.7	13.8	18.2	14	5	7	16	PCF5_16-01_	
PCF5/16-02④		Rc1/4	9.5	30.2	13				16.8	17		6	22	PCF5_16-02_
PCF5/16-03④		Rc3/8	10.5	31.2	14				20.8	21		6.5	30	PCF5_16-03_
PCF3/8-02④	3/8	Rc1/4	9.5	32.7	13	17.5	16.8	20.7	17	6	8.5	29	PCF3_8-02_	
PCF3/8-03④		Rc3/8	10.5	33.7	14				20.8	21		6.5	37	PCF3_8-03_
PCF1/2-02④	1/2	Rc1/4	9.5	34.6	13.5	20.8	16.8	23.1	21	6.5	11	41	PCF1_2-02_	
PCF1/2-03④		Rc3/8	10.5	36.1	14				20.8	24		7	44	PCF1_2-03_
PCF1/2-04④		Rc1/2	13	39.1	17				25	24		7	53	PCF1_2-04_

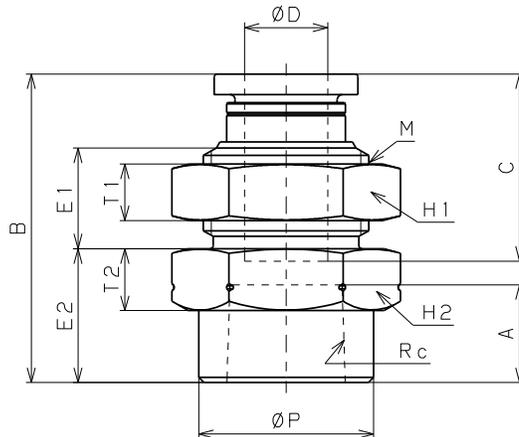
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.



Bulkhead Female Straight

RoHS compliant



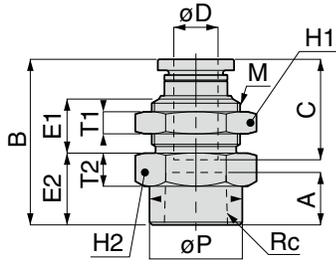
❖ NPT thread

unit: inch

Model	Tube O.D. φD	Rc	M	B	E1	E2	A	C	φP	Hex. H1	Hex. H2	T1	T2	Orifice (φ mm)	Weight (g)
PMF4-N1U	4mm	1/8-27NPT	1/2-20UNF	0.95	0.35	0.35	0.28	0.59	0.54	9/16	9/16	0.20	0.20	3	17
PMF6-N1U	6mm	1/8-27NPT	9/16-18UNF	1.04	0.40	0.39	0.28	0.67	0.54	11/16	11/16	0.22	0.24	5	28
PMF6-N2U	6mm	1/4-18NPT	9/16-18UNF	1.13	0.40	0.48	0.37	0.67	0.68	11/16	11/16	0.22	0.24	5	29
PMF8-N2U	8mm	1/4-18NPT	5/8-18UNF	1.18	0.39	0.51	0.37	0.72	0.66	3/4	3/4	0.22	0.24	7	33
PMF8-N3U	8mm	3/8-18NPT	5/8-18UNF	1.22	0.39	0.55	0.41	0.72	0.77	3/4	3/4	0.22	0.24	7	31
PMF10-N3U	10mm	3/8-18NPT	7/8-14UNF	1.33	0.44	0.55	0.41	0.81	0.82	1	1	0.28	0.28	9	67
PMF12-N3U	12mm	3/8-18NPT	7/8-14UNF	1.43	0.49	0.55	0.41	0.92	0.82	1	1	0.28	0.28	11	68
PMF5/32-N1U	5/32	1/8-27NPT	1/2-20UNF	0.95	0.35	0.35	0.28	0.59	0.54	9/16	9/16	0.20	0.20	3	17
PMF5/32-N2U	5/32	1/4-18NPT	1/2-20UNF	1.08	0.35	0.48	0.37	0.59	0.68	9/16	11/16	0.20	0.24	3	24
PMF3/16-N1U	3/16	1/8-27NPT	9/16-18UNF	1.06	0.40	0.39	0.28	0.69	0.54	11/16	11/16	0.22	0.24	4	28
PMF3/16-N2U	3/16	1/4-18NPT	9/16-18UNF	1.15	0.40	0.48	0.37	0.69	0.68	11/16	11/16	0.22	0.24	4	30
PMF1/4-N1U	1/4	1/8-27NPT	9/16-18UNF	1.04	0.40	0.39	0.28	0.67	0.54	11/16	11/16	0.22	0.24	5.3	28
PMF1/4-N2U	1/4	1/4-18NPT	9/16-18UNF	1.13	0.40	0.48	0.37	0.67	0.68	11/16	11/16	0.22	0.24	5.3	29
PMF1/4-N3U	1/4	3/8-18NPT	9/16-18UNF	1.20	0.40	0.55	0.41	0.67	0.77	11/16	3/4	0.22	0.24	5.3	30
PMF5/16-N1U	5/16	1/8-27NPT	5/8-18UNF	1.06	0.39	0.39	0.28	0.72	0.54	3/4	3/4	0.22	0.24	7	31
PMF5/16-N2U	5/16	1/4-18NPT	5/8-18UNF	1.18	0.39	0.51	0.37	0.72	0.66	3/4	3/4	0.22	0.24	7	33
PMF5/16-N3U	5/16	3/8-18NPT	5/8-18UNF	1.22	0.39	0.55	0.41	0.72	0.77	3/4	3/4	0.22	0.24	7	31
PMF3/8-N1U	3/8	1/8-27NPT	7/8-14UNF	1.17	0.44	0.39	0.28	0.81	0.54	1	1	0.28	0.28	8.3	66
PMF3/8-N2U	3/8	1/4-18NPT	7/8-14UNF	1.29	0.44	0.51	0.37	0.81	0.66	1	1	0.28	0.28	8.5	67
PMF3/8-N3U	3/8	3/8-18NPT	7/8-14UNF	1.33	0.44	0.55	0.41	0.81	0.82	1	1	0.28	0.28	8.5	68
PMF1/2-N2U	1/2	1/4-18NPT	7/8-14UNF	1.38	0.49	0.51	0.37	0.91	0.66	1	1	0.28	0.28	11	65
PMF1/2-N3U	1/2	3/8-18NPT	7/8-14UNF	1.42	0.49	0.55	0.41	0.91	0.82	1	1	0.28	0.28	11	66
PMF1/2-N4U	1/2	1/2-14NPT	7/8-14UNF	1.54	0.49	0.67	0.51	0.91	0.99	1	1	0.28	0.28	11	70

PMF Bulkhead Female Straight

RoHS compliant



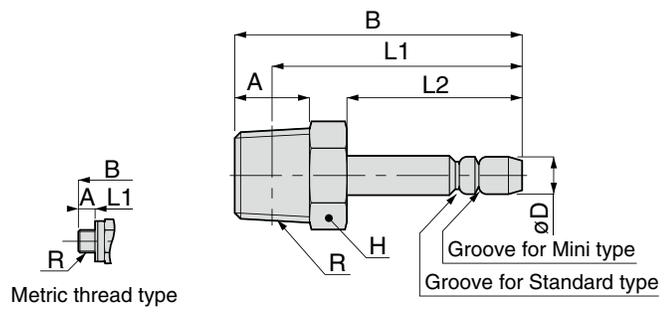
Unit : mm

Model code	Tube O.D. øD	Rc	M	B	E1	E2	A	Tube end C	øP	Hex. H1	Hex. H2	T1	T2	Orifice bore (ømm)	Weight (g)	CAD file name
PMF4-01 ④	4	Rc1/8	M12 × 1	24.2	9	9	7	14.9	13.8	14	14	4	5	3	17	PMF4-01_
PMF4-02 ④		Rc1/4		27.5		12.3	9.5		16.8		17		6		22	PMF4-02_
PMF6-01 ④	6	Rc1/8	M14 × 1	26.4	10.2	10	7	17	13.8	17	17	4	6	5	25	PMF6-01_
PMF6-02 ④		Rc1/4		28.7		12.3	9.5		16.8		19				26	PMF6-02_
PMF6-03 ④		Rc3/8		30.4		14	10.5		19.5		19				29	PMF6-03_
PMF8-01 ④	8	Rc1/8	M16 × 1	27	9.8	10	7	18.2	13.8	19	19	4	6	7	30	PMF8-01_
PMF8-02 ④		Rc1/4		30		13	9.5		16.8		19				32	PMF8-02_
PMF8-03 ④		Rc3/8		31		14	10.5		19.5		19				30	PMF8-03_
PMF10-02 ④	10	Rc1/4	M20 × 1	32.7	11.1	13	9.5	20.7	16.8	24	24	5	7	9	55	PMF10-02_
PMF10-03 ④		Rc3/8		33.7		14	10.5		20.8		24				56	PMF10-03_
PMF12-02 ④	12	Rc1/4	M22 × 1	35.3	12.4	13	9.5	23.3	16.8	27	24	6	7	11	65	PMF12-02_
PMF12-03 ④		Rc3/8		36.3		14	10.5		20.8		24					PMF12-03_
PMF12-04 ④		Rc1/2		39.3		17	13		25		24				67	PMF12-04_
PMF16-03 ④	16	Rc3/8	M27 × 1.5	38.3	14.4	14	10.5	24.8	20.8	32	29	9	8.5	14.2	110	PMF16-03_
PMF16-04 ④		Rc1/2		40.8		16.5	13		25		29			15	110	PMF16-04_

- ※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package
- ※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PTJ PT Jack

RoHS compliant



Unit : mm

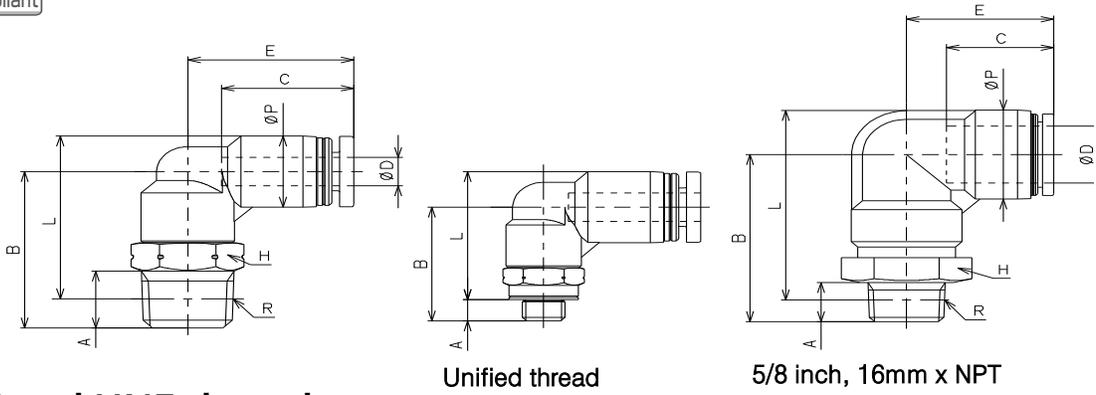
Model code	Tube dia. øD	R	A	B	L1	L2	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PTJ4-M5 ④	4	M5 × 0.8	3 [3.2]	27.5	24.5 [24.3]	18.5	8	1.8	4.1	PTJ4-M5[C]
PTJ4-01 ④		R1/8	8	30.5	26.5		10	2.2	8.4	PTJ4-01
PTJ6-M5 ④	6	M5 × 0.8	3 [3.2]	30.5	27.5 [27.3]	20.5	8	1.8	5.5	PTJ6-M5[C]
PTJ6-01 ④		R1/8	8	32.5	28.5		10	4	8.7	PTJ6-01
PTJ6-02 ④		R1/4	11	36.5	30.5		14	19	PTJ6-02	
PTJ8-01 ④	8	R1/8	8	34	30	21	10	6	8.6	PTJ8-01
PTJ8-02 ④		R1/4	11	37	31		14		18	PTJ8-02
PTJ8-03 ④		R3/8	12	38.8	32.5		17		31	PTJ8-03
PTJ10-03 ④	10	R3/8	12	41.5	35.2	23.5	17	8	30	PTJ10-03

- ※ 1. ④ in Model code / Replaced with "-C" for Clean-room package, "-UC" for Clean-wash and Clean-room package.
- ※ 2. "L1" is a reference value for height dimension after tightening taper thread.
- ※ 3. PTJ with Tube O.D.8mm and 10mm do not have the groove for Mini Series
- ※ 4. PTJ is applicable for PISCO Tube fitting Standard and Mini Series only.
- ※ 5. Dimensions in [] are for clean-room and clean-wash package products
- ※ 6. Orifice bore is the smallest passage converted in terms of the diameter.



Elbow

RoHS compliant



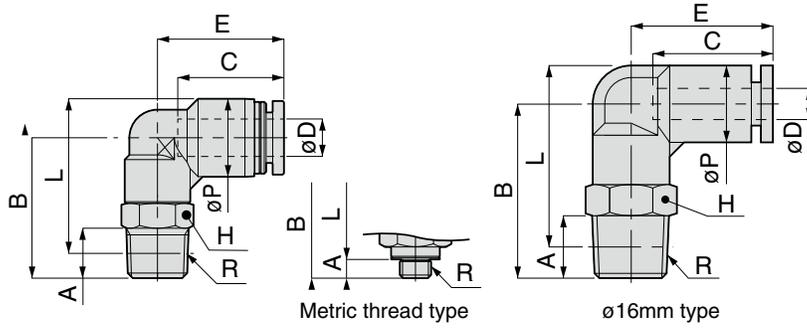
❖ NPT and UNF thread

unit: inch

Model	Tube O.D. φD	R	A	B	L	φP	C	E	Hex.	Orifice (φ mm)	Weight (g)
PL4-U10U	4mm	No.10-32UNF	0.11	0.63	0.72	0.39	0.59	0.70	5/16	2.4	5.4
PL4-N0U	4mm	1/16-27NPT	0.31	0.87	0.90	0.39	0.59	0.74	7/16	2.8	12
PL4-N1U	4mm	1/8-27NPT	0.31	0.87	0.90	0.39	0.59	0.74	7/16	2.8	11
PL4-N2U	4mm	1/4-18NPT	0.43	1.14	1.11	0.39	0.59	0.81	9/16	2.8	18
PL6-U10U	6mm	No.10-32UNF	0.11	0.77	0.91	0.49	0.67	0.80	7/16	2.4	9.1
PL6-N0U	6mm	1/16-27NPT	0.31	0.89	0.97	0.49	0.67	0.80	7/16	4.2	13
PL6-N1U	6mm	1/8-27NPT	0.31	0.89	0.97	0.49	0.67	0.80	7/16	4.2	12
PL6-N2U	6mm	1/4-18NPT	0.43	1.10	1.12	0.49	0.67	0.86	9/16	4.3	19
PL6-N3U	6mm	3/8-18NPT	0.47	1.24	1.25	0.49	0.67	0.94	11/16	4.3	31
PL8-N1U	8mm	1/8-27NPT	0.31	0.94	1.07	0.57	0.71	0.89	1/2	6	15
PL8-N2U	8mm	1/4-18NPT	0.43	1.10	1.16	0.57	0.71	0.93	9/16	6.7	20
PL8-N3U	8mm	3/8-18NPT	0.47	1.22	1.27	0.57	0.71	0.97	11/16	6.7	32
PL10-N1U	10mm	1/8-27NPT	0.31	0.98	1.17	0.69	0.80	1.00	1/2	6	19
PL10-N2U	10mm	1/4-18NPT	0.43	1.12	1.24	0.69	0.80	1.02	9/16	8	24
PL10-N3U	10mm	3/8-18NPT	0.47	1.26	1.37	0.69	0.80	1.06	11/16	8.3	36
PL10-N4U	10mm	1/2-14NPT	0.59	1.42	1.44	0.69	0.80	1.08	7/8	8.3	60
PL12-N2U	12mm	1/4-18NPT	0.43	1.17	1.36	0.83	0.92	1.14	9/16	8	27
PL12-N3U	12mm	3/8-18NPT	0.47	1.28	1.45	0.83	0.92	1.17	11/16	10	39
PL12-N4U	12mm	1/2-14NPT	0.59	1.44	1.53	0.83	0.92	1.21	7/8	10.3	63
PL16-N3U	16mm	3/8-18NPT	0.43	1.85	2.10	0.98	0.95	1.30	1	11	90
PL16-N4U	16mm	1/2-14NPT	0.59	2.01	2.18	0.98	0.95	1.30	1	13	94
PL5/32-U10U	5/32	No.10-32UNF	0.11	0.63	0.72	0.39	0.59	0.70	5/16	2.4	5.4
PL5/32-N0U	5/32	1/16-27NPT	0.31	0.87	0.90	0.39	0.59	0.74	7/16	2.8	12
PL5/32-N1U	5/32	1/8-27NPT	0.31	0.87	0.90	0.39	0.59	0.74	7/16	2.8	11
PL5/32-N2U	5/32	1/4-18NPT	0.43	1.14	1.11	0.39	0.59	0.81	9/16	2.8	18
PL3/16-U10U	3/16	No.10-32UNF	0.11	0.77	0.91	0.49	0.69	0.81	7/16	2.4	9.4
PL3/16-N0U	3/16	1/16-27NPT	0.31	0.89	0.97	0.49	0.69	0.81	7/16	3.3	14
PL3/16-N1U	3/16	1/8-27NPT	0.31	0.89	0.97	0.49	0.69	0.81	7/16	3.3	12
PL3/16-N2U	3/16	1/4-18NPT	0.43	1.10	1.12	0.49	0.69	0.87	9/16	3.3	19
PL3/16-N3U	3/16	3/8-18NPT	0.47	1.17	1.18	0.49	0.68	0.80	11/16	3.9	37
PL1/4-U10U	1/4	No.10-32UNF	0.11	0.77	0.91	0.49	0.67	0.80	7/16	2.4	9
PL1/4-N0U	1/4	1/16-27NPT	0.31	0.89	0.97	0.49	0.67	0.80	7/16	4.6	13
PL1/4-N1U	1/4	1/8-27NPT	0.31	0.89	0.97	0.49	0.67	0.80	7/16	4.6	12
PL1/4-N2U	1/4	1/4-18NPT	0.43	1.10	1.12	0.49	0.67	0.86	9/16	5.3	19
PL1/4-N3U	1/4	3/8-18NPT	0.47	1.24	1.25	0.49	0.67	0.94	11/16	5.3	31
PL5/16-N1U	5/16	1/8-27NPT	0.31	0.94	1.07	0.57	0.71	0.89	1/2	6	15
PL5/16-N2U	5/16	1/4-18NPT	0.43	1.10	1.16	0.57	0.71	0.93	9/16	6.7	20
PL5/16-N3U	5/16	3/8-18NPT	0.47	1.22	1.27	0.57	0.71	0.97	11/16	6.7	32
PL3/8-N1U	3/8	1/8-27NPT	0.31	0.98	1.17	0.69	0.80	1.00	1/2	6	19
PL3/8-N2U	3/8	1/4-18NPT	0.43	1.12	1.24	0.69	0.80	1.02	9/16	8	24
PL3/8-N3U	3/8	3/8-18NPT	0.47	1.26	1.37	0.69	0.80	1.06	11/16	8.2	36
PL3/8-N4U	3/8	1/2-14NPT	0.59	1.42	1.44	0.69	0.80	1.08	7/8	8.2	60
PL1/2-N2U	1/2	1/4-18NPT	0.43	1.17	1.36	0.83	0.93	1.15	9/16	8	26
PL1/2-N3U	1/2	3/8-18NPT	0.47	1.28	1.45	0.83	0.93	1.18	11/16	10	38
PL1/2-N4U	1/2	1/2-14NPT	0.59	1.44	1.53	0.83	0.93	1.22	7/8	10.9	63
PL5/8-N3U	5/8	3/8-18NPT	0.43	1.85	2.10	0.98	0.95	1.30	1	11	90
PL5/8-N4U	5/8	1/2-14NPT	0.59	2.01	2.18	0.98	0.95	1.30	1	13	94

PL Elbow

RoHS compliant



Unit : mm

Model code	Model code	R	A	B	L	øP	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name	
PL4-M5④	4	M5×0.8	2.8 [3]	16	18.2 [18]	10	14.9	17.7	8	2.4	5.7	PL4-M5_[C]	
PL4-M6④		M6×1	3.8	20	21.2			18.7	10		8	PL4-M6_[C]	
PL4-01④		R1/8	8	22	23			2.8	10	10	PL4-01_		
PL4-02④		R1/4	11	29	28				20.7	14	18	PL4-02_	
PL6-M5④	6	M5×0.8	2.8 [3]	19.5	23 [22.8]	12.5	17	20.3	10	2.4	8.9	PL6-M5_[C]	
PL6-M6④		M6×1	3.8	20.5	23					3	8	PL6-M6_[C]	
PL6-01④		R1/8	8	22.5	24.8			4.2	11	11	PL6-01_		
PL6-02④		R1/4	11	28	28.2				19	19	PL6-02_		
PL6-03④		R3/8	12	31.5	31.4				23.8	17	4.3	30	PL6-03_
PL8-01④	8	R1/8	8	24	27.3	14.5	18.1	22.7	12	6	14	PL8-01_	
PL8-02④		R1/4	11	28	29.2			23.7	14		20	PL8-02_	
PL8-03④		R3/8	12	31	31.9			24.7	17		6.7	31	PL8-03_
PL10-01④	10	R1/8	8	25	29.8	17.5	20.2	25.5	12	6	18	PL10-01_	
PL10-02④		R1/4	11	28.5	31.2			26	14		8	23	PL10-02_
PL10-03④		R3/8	12	32	34.4			27	17	8.3	34	34	PL10-03_
PL10-04④		R1/2	15	36	36.6						27.5	21	57
PL12-02④	12	R1/4	11	29.8	34.2	21	23.4	29	14	8	27	PL12-02_	
PL12-03④		R3/8	12	32.5	36.7			29.7	17	10	38	PL12-03_	
PL12-04④		R1/2	15	36.5	38.8			30.7	21	10.3	61	PL12-04_	
PL16-03④	16	R3/8	11	47	53.2	25	24.1	33.1	22	11	74	PL16-03_	
PL16-04④		R1/2	15	51	55.3					13	79	79	PL16-04_
PL5/32-M5④	5/32	M5×0.8	2.8 [3]	16	18.2 [18]	10	14.9	17.7	8	2.4	5.7	PL5_32-M5_[C]	
PL5/32-01④		R1/8	8	22	23			18.7	10		10	PL5_32-01_	
PL5/32-02④		R1/4	11	29	28			20.7	14	2.8	18	PL5_32-02_	
PL3/16-M5④	3/16	M5×0.8	2.8 [3]	19.5	23 [22.8]	12.5	17.4	20.7	10	2.4	8.7	PL3_16-M5_[C]	
PL3/16-01④		R1/8	8	22.5	24.8					22.2	14	3.3	11
PL3/16-02④		R1/4	11	28	28.2			19	19			3.3	19
PL1/4-M5④	1/4	M5×0.8	2.8 [3]	19.5	23 [22.8]	12.5	17	20.3	10	2.4	8.5	PL1_4-M5_[C]	
PL1/4-01④		R1/8	8	22.5	24.8					21.8	14	4.6	11
PL1/4-02④		R1/4	11	28	28.2			23.8	17			5.3	18
PL1/4-03④		R3/8	12	31.5	31.4					27	17	8.2	29
PL5/16-01④	5/16	R1/8	8	24	27.3	14.5	18.1	22.7	12	6	14	PL5_16-01_	
PL5/16-02④		R1/4	11	28	29.2			23.7	14		20	20	PL5_16-02_
PL5/16-03④		R3/8	12	31	31.9			24.7	17		6.7	31	31
PL3/8-01④	3/8	R1/8	8	25	29.8	17.5	20.2	25.5	12	6	18	PL3_8-01_	
PL3/8-02④		R1/4	11	28.5	31.2			26	14		8	24	24
PL3/8-03④		R3/8	12	32	34.4			27	17	8.2	35	35	PL3_8-03_
PL3/8-04④		R1/2	15	36	36.6						27.5	21	58
PL1/2-02④	1/2	R1/4	11	29.8	34.2	21	23.7	29.3	14	8	26	PL1_2-02_	
PL1/2-03④		R3/8	12	32.5	36.7			30	17	10	37	37	PL1_2-03_
PL1/2-04④		R1/2	15	36.5	38.8			31	21	10.9	60	60	PL1_2-04_
PL5/8-03④	5/8	R3/8	11	47	53.2	25	24.1	33.1	22	11	74	PL5_8-03_	
PL5/8-04④		R1/2	15	51	55.3					13	79	79	PL5_8-04_

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

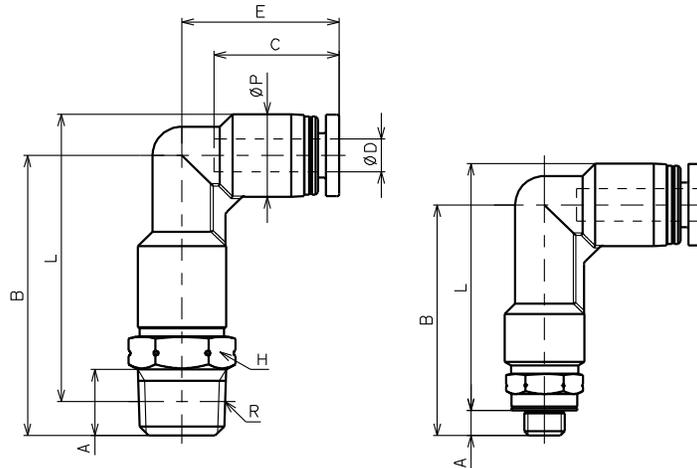
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 3. Dimensions in [] are for clean-room and clean-wash package products

※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

PLL Long Elbow

RoHS compliant



Unified thread

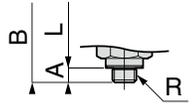
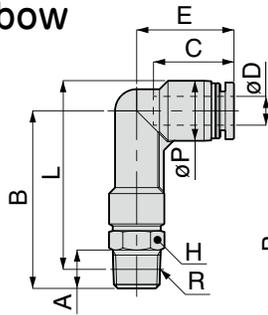
❖ **NPT and UNF thread**

unit: inch

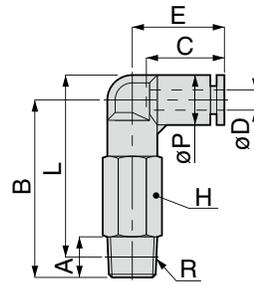
Model	Tube O.D. φD	R	A	B	L	φP	C	E	Hex.	Orifice (φ mm)	Weight (g)
PLL5/32-U10U	5/32	No.10-32UNF	0.11	1.10	1.19	0.39	0.59	0.74	5/16	2.4	6.4
PLL5/32-N1U	5/32	1/8-27NPT	0.31	1.34	1.37	0.39	0.59	0.74	7/16	2.8	12
PLL5/32-N2U	5/32	1/4-18NPT	0.43	1.61	1.58	0.39	0.59	0.81	9/16	2.8	20
PLL3/16-U10U	3/16	No.10-32UNF	0.11	1.34	1.48	0.49	0.69	0.81	7/16	2.4	11
PLL3/16-N1U	3/16	1/8-27NPT	0.31	1.46	1.54	0.49	0.69	0.81	7/16	3.3	14
PLL3/16-N2U	3/16	1/4-18NPT	0.43	1.67	1.69	0.49	0.69	0.87	9/16	3.3	21
PLL3/16-N3U	3/16	3/8-18NPT	0.47	1.70	1.71	0.49	0.68	0.80	11/16	3.9	64
PLL1/4-U10U	1/4	No.10-32UNF	0.11	1.34	1.48	0.49	0.67	0.80	7/16	2.4	11
PLL1/4-N1U	1/4	1/8-27NPT	0.31	1.46	1.54	0.49	0.67	0.80	7/16	4.6	13
PLL1/4-N2U	1/4	1/4-18NPT	0.43	1.67	1.69	0.49	0.67	0.86	9/16	5.3	21
PLL1/4-N3U	1/4	3/8-18NPT	0.47	1.81	1.82	0.49	0.67	0.94	11/16	5.3	35
PLL5/16-N1U	5/16	1/8-27NPT	0.31	1.59	1.72	0.57	0.71	0.89	1/2	6	17
PLL5/16-N2U	5/16	1/4-18NPT	0.43	1.75	1.81	0.57	0.71	0.93	9/16	6.7	23
PLL5/16-N3U	5/16	3/8-18NPT	0.47	1.87	1.92	0.57	0.71	0.97	11/16	6.7	36
PLL3/8-N1U	3/8	1/8-27NPT	0.31	1.75	1.93	0.69	0.80	1.00	1/2	6	21
PLL3/8-N2U	3/8	1/4-18NPT	0.43	1.89	2.01	0.69	0.80	1.02	9/16	8	27
PLL3/8-N3U	3/8	3/8-18NPT	0.47	2.03	2.13	0.69	0.80	1.06	11/16	8.2	40
PLL3/8-N4U	3/8	1/2-14NPT	0.59	2.19	2.21	0.69	0.80	1.06	7/8	8.2	66
PLL1/2-N2U	1/2	1/4-18NPT	0.43	2.08	2.26	0.83	0.93	1.15	9/16	8	30
PLL1/2-N3U	1/2	3/8-18NPT	0.47	2.19	2.36	0.83	0.93	1.18	11/16	10	43
PLL1/2-N4U	1/2	1/2-14NPT	0.59	2.34	2.44	0.83	0.93	1.18	7/8	10.9	70

PLL Long Elbow

RoHS compliant



Metric thread type



ø16mm type

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name					
PLL4-M5 ^④	4	M5×0.8	2.8 [3]	28	30.2 [30]	10	14.9	18.7	8	2.4	6.4	PLL4-M5_[C]					
PLL4-01 ^④		R1/8	8	34	35				10			14.9	18.7	10	2.8	11	PLL4-01_
PLL4-02 ^④		R1/4	11	41	40				10			14.9	20.7	14	2.8	19	PLL4-02_
PLL6-M5 ^④	6	M5×0.8	2.8 [3]	34	37.5 [37.3]	12.5	17	20.3	10	2.4	9.9	PLL6-M5_[C]					
PLL6-01 ^④		R1/8	8	37	39.3				12.5			17	21.8	14	4.3	13	PLL6-01_
PLL6-02 ^④		R1/4	11	42.5	42.7				12.5			17	23.8	17	4.3	20	PLL6-02_
PLL6-03 ^④		R3/8	12	46	45.9				12.5			17	23.8	17	4.3	33	PLL6-03_
PLL8-01 ^④	8	R1/8	8	40.5	43.8	14.5	18.1	22.7	12	6	16	PLL8-01_					
PLL8-02 ^④		R1/4	11	44.5	45.7				14.5			18.1	23.7	14	6.7	22	PLL8-02_
PLL8-03 ^④		R3/8	12	47.5	48.4				14.5			18.1	24.7	17	6.7	35	PLL8-03_
PLL10-01 ^④	10	R1/8	8	44.5	49.3	17.5	20.2	25.5	12	6	20	PLL10-01_					
PLL10-02 ^④		R1/4	11	48	50.7				17.5			20.2	26	14	8	26	PLL10-02_
PLL10-03 ^④		R3/8	12	51.5	53.9				17.5			20.2	27	17	8.3	38	PLL10-03_
PLL10-04 ^④		R1/2	15	55.5	56.1				17.5			20.2	27	21	8.3	63	PLL10-04_
PLL12-02 ^④	12	R1/4	11	52.8	57.2	21	23.4	29	14	8	30	PLL12-02_					
PLL12-03 ^④		R3/8	12	55.5	59.7				21			23.4	29.7	17	10	42	PLL12-03_
PLL12-04 ^④		R1/2	15	59.5	61.8				21			23.4	29.7	21	10.3	68	PLL12-04_
PLL16-03 ^④	16	R3/8	11	74	80.2	25	24.1	33.1	22	11	154	PLL16-03_					
PLL16-04 ^④		R1/2	15	78	82.3				25			24.1	33.1	22	13	150	PLL16-04_
PLL5/32-01 ^④	5/32	R1/8	8	34	35	10	14.9	18.7	10	2.8	11	PLL5_32-01_					
PLL5/32-02 ^④		R1/4	11	41	40				10			14.9	20.7	14	2.8	19	PLL5_32-02_
PLL3/16-01 ^④	3/16	R1/8	8	37	39.3	12.5	17.4	20.7	10	3.3	13	PLL3_16-01_					
PLL3/16-02 ^④		R1/4	11	42.5	42.7				12.5			17.4	22.2	14	3.3	21	PLL3_16-02_
PLL1/4-01 ^④	1/4	R1/8	8	37	39.3	12.5	17	20.3	10	4.6	13	PLL1_4-01_					
PLL1/4-02 ^④		R1/4	11	42.5	42.7				12.5			17	21.8	14	5.3	20	PLL1_4-02_
PLL1/4-03 ^④		R3/8	12	46	45.9				12.5			17	23.8	17	5.3	33	PLL1_4-03_
PLL5/16-01 ^④	5/16	R1/8	8	40.5	43.8	14.5	18.1	22.7	12	6	16	PLL5_16-01_					
PLL5/16-02 ^④		R1/4	11	44.5	45.7				14.5			18.1	23.7	14	6.7	22	PLL5_16-02_
PLL5/16-03 ^④		R3/8	12	47.5	48.4				14.5			18.1	24.7	17	6.7	35	PLL5_16-03_
PLL3/8-01 ^④	3/8	R1/8	8	44.5	49.3	17.5	20.2	25.5	12	6	20	PLL3_8-01_					
PLL3/8-02 ^④		R1/4	11	48	50.7				17.5			20.2	26	14	8	27	PLL3_8-02_
PLL3/8-03 ^④		R3/8	12	51.5	53.9				17.5			20.2	27	17	8.2	39	PLL3_8-03_
PLL3/8-04 ^④		R1/2	15	55.5	56.1				17.5			20.2	27	21	8.2	63	PLL3_8-04_
PLL1/2-02 ^④	1/2	R1/4	11	52.8	57.2	21	23.7	29.3	14	8	30	PLL1_2-02_					
PLL1/2-03 ^④		R3/8	12	55.5	59.7				21			23.7	30	17	10	42	PLL1_2-03_
PLL1/2-04 ^④		R1/2	15	59.5	61.8				21			23.7	30	21	10.9	67	PLL1_2-04_

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

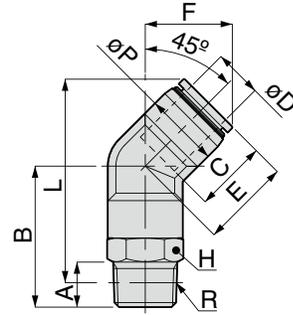
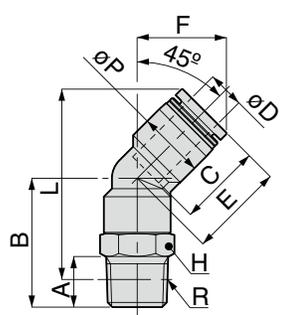
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 3. Dimensions in [] are for clean-room and clean-wash package products

※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

PLH 45° Elbow

RoHS compliant



The dimensions of PLH8-N1U and PLH8-N2U are same as PLH5/16-N1U and PLH5/16-N2U respectively.

ø16mm type

unit: inch

❖ NPT thread

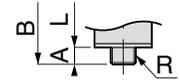
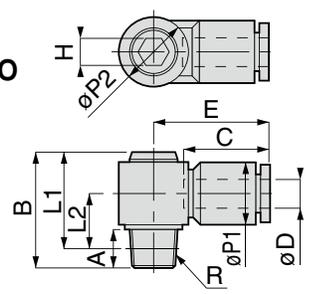
Model	Tube O.D. øD	R	A	B	L	E	F	øP	C	Hex.	Orifice ø (mm)	Weight (g)
PLH5/16- N1U	5/16	1/8-27NPT	0.31	0.94	1.55	0.81	0.76	0.57	0.71	1/2	6.0	15
PLH5/16- N2U	5/16	1/4-18NPT	0.43	1.10	1.64	0.81	0.76	0.57	0.71	9/16	6.7	20
PLH1/4-N1U	1/4	1/8-27NPT	0.31	0.94	1.56	0.88	0.78	0.57	0.67	1/2	4.6	17

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	E	F	øP	Tube end C	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PLH8-01 ④	8	R1/8	8	24	39.4	20.7	19.4	14.5	18.1	12	6.7	14	PLH8-01_
PLH8-02 ④		R1/4	11	28	41.4					20		20	PLH8-02_
PLH8-03 ④		R3/8	12	31	44					31		31	PLH8-03_
PLH10-01 ④	10	R1/8	8	25	43.7	23.9	22.7	17.5	20.2	12	8.3	18	PLH10-01_
PLH10-02 ④		R1/4	11	28.5	45.2					23		23	PLH10-02_
PLH10-03 ④		R3/8	12	33	49.4					35		35	PLH10-03_
PLH10-04 ④		R1/2	15	37	51.6					58		58	PLH10-04_
PLH12-02 ④	12	R1/4	11	29.8	51	29.1	27.4	21	23.4	14	10.3	27	PLH12-02_
PLH12-03 ④		R3/8	12	32.5	53.5					38		38	PLH12-03_
PLH12-04 ④		R1/2	15	36.5	55.7					61		61	PLH12-04_
PLH16-03 ④	16	R3/8	11	43	65.6	29.8	29	25	24.1	22	13	73	PLH16-03_
PLH16-04 ④		R1/2	15	47	67.8							78	78

POL Hex. Holed Banjo

RoHS compliant



Unified or Metric thread type

Ask for the dimensions of POL8-N1U POL12-N3U

❖ NPT thread

unit: inch

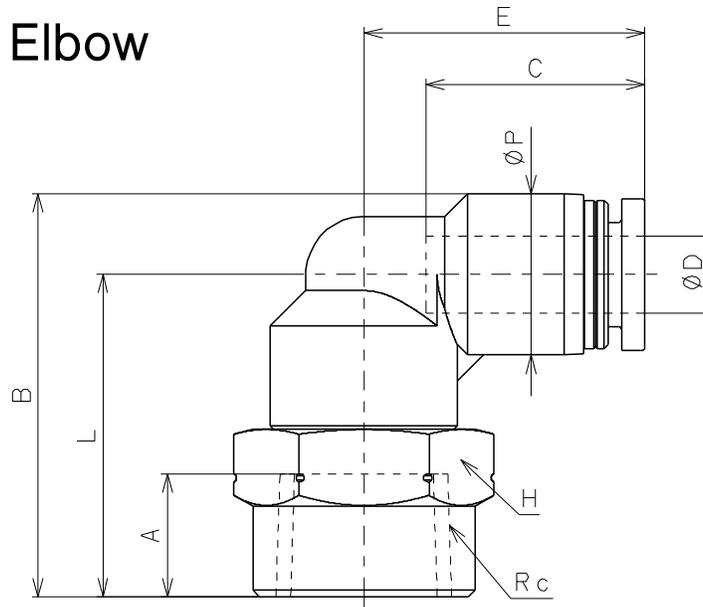
Model	Tube O.D. øD	R	A	B	L1	L2	øP1	øP2	C	E	Hex.	Orifice ø (mm)	Weight (g)
POL1/4-N1U	1/4	1/8-27NPT	0.31	0.94	0.78	0.45	0.51	0.56	0.67	0.93	3/16	4.0	16
POL1/4-N2U	1/4	1/4-18NPT	0.43	1.06	0.83	0.50	0.51	0.56	0.67	0.93	3/16	4.0	22
POL3/8-N2U	3/8	1/4-18NPT	0.43	1.34	1.11	0.60	0.71	0.84	0.81	1.21	5/16	7.5	43

Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	øP1	øP2	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
POL4-M5 ④	4	M5×0.8	3 [3.2]	17.5	14.5 [14.3]	7.5 [7.3]	10	10	14.9	19.8	4	1.8	6.3	POL4-M5(C)
POL6-01 ④	6	R1/8	8	24	20	11.5	13	14.3	17	23.7	5	4	15	POL6-01
POL6-02 ④		R1/4	11	27	21	12.5							22	POL6-02
POL8-01 ④	8	R1/8	8	27	23	12	14	17.9	18.1	26.7	8	5.6	22	POL8-01
POL8-02 ④		R1/4	11	30	24	13							28	POL8-02
POL8-03 ④		R3/8	12	31	24.7	13.7							37	POL8-03
POL10-02 ④	10	R1/4	11	34	28	15	18	21.3	20.7	30.7	10	7.5	40	POL10-02
POL10-03 ④		R3/8	12	35	28.7	15.7							49	POL10-03
POL12-03 ④	12	R3/8	12	39	32.7	17.7	21	26.3	23.4	36.4	12	9.1	68	POL12-03
POL12-04 ④		R1/2	15	42	33.8	18.8							85	POL12-04



Female Elbow



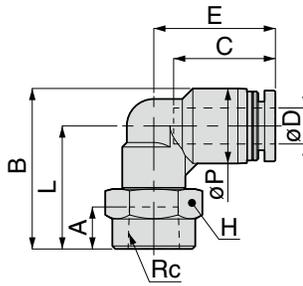
❖ NPT and UNF thread

unit: inch

Model	Tube O.D. φD	Rc	A	B	L	φP	C	E	Hex.	Orifice φ(mm)	Weight (g)
PLF4-N1U	4mm	1/8-27NPT	0.28	0.98	0.79	0.39	0.59	0.74	9/16	2.8	13
PLF4-N2U	4mm	1/4-18NPT	0.37	1.22	1.02	0.39	0.59	0.81	11/16	2.8	22
PLF6-N1U	6mm	1/8-27NPT	0.28	1.06	0.81	0.49	0.67	0.80	9/16	4.2	14
PLF6-N2U	6mm	1/4-18NPT	0.37	1.23	0.98	0.49	0.67	0.86	11/16	4.3	23
PLF8-N1U	8mm	1/8-27NPT	0.28	1.11	0.83	0.57	0.71	0.89	9/16	6.0	16
PLF8-N2U	8mm	1/4-18NPT	0.37	1.27	0.98	0.57	0.71	0.93	11/16	6.7	24
PLF10-N2U	10mm	1/4-18NPT	0.37	1.35	1.00	0.69	0.80	1.02	11/16	8.0	27
PLF12-N2U	12mm	1/4-18NPT	0.37	1.50	1.08	0.83	0.92	1.17	11/16	10.0	32
PLF5/32-U10U	5/32	No.10-32UNF	0.20	0.75	0.55	0.39	0.59	0.74	7/16	2.8	7.7
PLF5/32-N1U	5/32	1/8-27NPT	0.28	0.98	0.79	0.39	0.59	0.74	9/16	2.8	13
PLF5/32-N2U	5/32	1/4-18NPT	0.37	1.22	1.02	0.39	0.59	0.81	11/16	2.8	22
PLF3/16-U10U	3/16	No.10-32UNF	0.20	0.82	0.57	0.49	0.69	0.81	7/16	3.3	8.7
PLF3/16-N1U	3/16	1/8-27NPT	0.28	1.06	0.81	0.49	0.69	0.81	9/16	3.3	14
PLF3/16-N2U	3/16	1/4-18NPT	0.37	1.23	0.98	0.49	0.69	0.87	11/16	3.3	23
PLF3/16-N3U	3/16	3/8-18NPT	0.41	1.27	1.02	0.49	0.68	0.80	7/8	3.9	35
PLF1/4-U10U	1/4	No.10-32UNF	0.20	0.82	0.57	0.49	0.67	0.80	7/16	3.9	8.5
PLF1/4-N1U	1/4	1/8-27NPT	0.28	1.06	0.81	0.49	0.67	0.80	9/16	4.6	14
PLF1/4-N2U	1/4	1/4-18NPT	0.37	1.23	0.98	0.49	0.67	0.86	11/16	5.3	22
PLF1/4-N3U	1/4	3/8-18NPT	0.41	1.33	1.08	0.49	0.67	0.94	7/8	5.3	35
PLF5/16-N1U	5/16	1/8-27NPT	0.28	1.11	0.83	0.57	0.71	0.89	9/16	6.0	16
PLF5/16-N2U	5/16	1/4-18NPT	0.37	1.27	0.98	0.57	0.71	0.93	11/16	6.7	24
PLF5/16-N3U	5/16	3/8-18NPT	0.41	1.35	1.06	0.57	0.71	0.97	7/8	6.7	37
PLF3/8-N2U	3/8	1/4-18NPT	0.37	1.35	1.00	0.69	0.80	1.02	11/16	8.0	27
PLF3/8-N3U	3/8	3/8-18NPT	0.41	1.45	1.10	0.69	0.80	1.06	7/8	8.2	40
PLF3/8-N4U	3/8	1/2-14NPT	0.51	1.59	1.24	0.69	0.80	1.08	1	8.2	52
PLF1/2-N2U	1/2	1/4-18NPT	0.37	1.50	1.08	0.83	0.93	1.18	11/16	10.0	32
PLF1/2-N3U	1/2	3/8-18NPT	0.41	1.54	1.12	0.83	0.93	1.18	7/8	10.0	43
PLF1/2-N4U	1/2	1/2-14NPT	0.51	1.67	1.26	0.83	0.93	1.22	1	10.9	54

PLF Female Elbow

RoHS compliant



Unit : mm

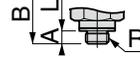
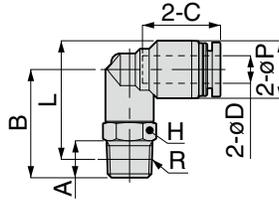
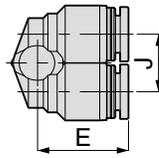
Model code	Tube O.D. øD	Rc	A	B	L	øP	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name		
PLF4-M5④	4	M5×0.8	5	19	14	10	14.9	18.7	10	2.8	6.9	PLF4-M5_		
PLF4-M6④		M6×1							6.4		PLF4-M6_			
PLF4-01④		Rc1/8	7	25	20			14	14		PLF4-01_			
PLF4-02④		Rc1/4	9.5	31	26			17	20.7		21	PLF4-02_		
PLF6-M5④	6	M5×0.8	5	20.8	14.5	12.5	17	20.3	10	4.1	7.8	PLF6-M5_		
PLF6-M6④		M6×1							7.3		PLF6-M6_			
PLF6-01④		Rc1/8	7	26.8	20.5			14	4.2		15	PLF6-01_		
PLF6-02④		Rc1/4	9.5	31.3	25			17	21.8		21	PLF6-02_		
PLF6-03④	Rc3/8	10.5	33.8	27.5	21	23.8	21	4.3	32	PLF6-03_				
PLF8-01④	8	Rc1/8	7	28.3	21	14.5	18.1	22.7	14	6.0	16	PLF8-01_		
PLF8-02④		Rc1/4	9.5	32.3	25			17	23.7	17	6.7	23	PLF8-02_	
PLF8-03④		Rc3/8	10.5	34.3	27			21	24.7	21	33	PLF8-03_		
PLF10-02④	10	Rc1/4	9.5	34.3	25.5	17.5	20.2	26	17	8.0	26	PLF10-02_		
PLF10-03④		Rc3/8	10.5	36.8	28			21	27	21	8.3	36	PLF10-03_	
PLF10-04④		Rc1/2	13	40.3	31.5			24	27.5	24	46	PLF10-04_		
PLF12-02④	12	Rc1/4	9.5	38	27.5	21	23.4	29.7	17	10.0	31	PLF12-02_		
PLF12-03④		Rc3/8	10.5	39	28.5			21	40		PLF12-03_			
PLF12-04④		Rc1/2	13	42.5	32			24	30.7		24	10.3	50	PLF12-04_
PLF5/32-M5④	5/32	M5×0.8	5	19	14	10	14.9	18.7	10	2.8	6.9	PLF5/32-M5_		
PLF5/32-01④		Rc1/8							7		25	20	14	14
PLF5/32-02④		Rc1/4	9.5	31	26			17	20.7		17	21	PLF5/32-02_	
PLF3/16-M5④	3/16	M5×0.8	5	20.8	14.5	12.5	17.4	20.7	10	3.3	8	PLF3/16-M5_		
PLF3/16-01④		Rc1/8							7		26.8	20.5	14	15
PLF3/16-02④		Rc1/4	9.5	31.3	25			17	22.2		17	22	PLF3/16-02_	
PLF1/4-M5④	1/4	M5×0.8	5	20.8	14.5	12.5	17	20.3	10	4.1	7.7	PLF1/4-M5_		
PLF1/4-01④		Rc1/8							7		26.8	20.5	14	4.6
PLF1/4-02④		Rc1/4	9.5	31.3	25			17	21.8		17	5.3	21	PLF1/4-02_
PLF1/4-03④		Rc3/8	10.5	33.8	27.5			21	23.8		21	31	PLF1/4-03_	
PLF5/16-01④	5/16	Rc1/8	7	28.3	21	14.5	18.1	22.7	14	6.0	16	PLF5/16-01_		
PLF5/16-02④		Rc1/4	9.5	32.3	25			17	23.7	17	6.7	23	PLF5/16-02_	
PLF5/16-03④		Rc3/8	10.5	34.3	27			21	24.7	21	33	PLF5/16-03_		
PLF3/8-02④	3/8	Rc1/4	9.5	34.3	25.5	17.5	20.2	26	17	8.0	26	PLF3/8-02_		
PLF3/8-03④		Rc3/8	10.5	36.8	28			21	27	21	8.2	36	PLF3/8-03_	
PLF3/8-04④		Rc1/2	13	40.3	31.5			24	27.5	24	46	PLF3/8-04_		
PLF1/2-02④	1/2	Rc1/4	9.5	38	27.5	21	23.7	30	17	10.0	31	PLF1/2-02_		
PLF1/2-03④		Rc3/8	10.5	39	28.5			21	39		21	PLF1/2-03_		
PLF1/2-04④		Rc1/2	13	42.5	32			24	31		24	10.9	54	PLF1/2-04_

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PAX Branch Elbow

RoHS compliant



Unified or Metric thread type

❖ NPT and UNF thread

unit: inch

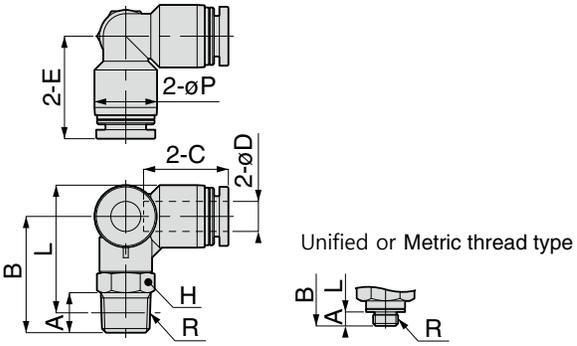
Model	Tube O.D. φD	R	A	B	L	φP	C	J	E	Hex.	φd	F	T	Orifice φ (mm)	Weight (g)
PAX5/32-U10U	5/32	No.10-32UNF	0.11	0.79	0.87	0.39	0.59	0.41	0.72	7/16	-	-	-	2.4	11
PAX5/32-N1U	5/32	1/8-27NPT	0.31	0.91	0.94	0.39	0.59	0.41	0.72	7/16	-	-	-	3.9	14
PAX5/32-N2U	5/32	1/4-18NPT	0.43	1.06	1.03	0.39	0.59	0.41	0.76	9/16	-	-	-	3.9	21
PAX3/16-U10U	3/16	No.10-32UNF	0.11	0.81	0.94	0.49	0.69	0.49	0.80	7/16	-	-	-	2.4	14
PAX3/16-N1U	3/16	1/8-27NPT	0.31	0.93	1.01	0.49	0.69	0.49	0.80	7/16	-	-	-	4.2	16
PAX3/16-N2U	3/16	1/4-18NPT	0.43	1.14	1.16	0.49	0.69	0.49	0.87	9/16	-	-	-	4.6	23
PAX3/16-N3U	3/16	3/8-18NPT	0.47	1.29	1.30	0.49	0.69	0.47	1.05	11/16	0.17	0.63	0.49	3.4	42
PAX1/4-U10U	1/4	No.10-32UNF	0.11	0.81	0.94	0.49	0.67	0.49	0.78	7/16	-	-	-	2.4	13
PAX1/4-N1U	1/4	1/8-27NPT	0.31	0.93	1.01	0.49	0.67	0.49	0.78	7/16	-	-	-	4.3	16
PAX1/4-N2U	1/4	1/4-18NPT	0.43	1.14	1.16	0.49	0.67	0.49	0.86	9/16	-	-	-	5.9	22
PAX1/4-N3U	1/4	3/8-18NPT	0.47	1.24	1.25	0.49	0.67	0.49	0.94	11/16	-	-	-	5.9	35
PAX5/16-N1U	5/16	1/8-27NPT	0.31	0.98	1.11	0.57	0.71	0.57	0.89	1/2	-	-	-	5.7	21
PAX5/16-N2U	5/16	1/4-18NPT	0.43	1.14	1.20	0.57	0.71	0.57	0.93	9/16	-	-	-	7.3	25
PAX5/16-N3U	5/16	3/8-18NPT	0.47	1.26	1.31	0.57	0.71	0.57	0.97	11/16	-	-	-	7.3	38
PAX3/8-N1U	3/8	1/8-27NPT	0.31	1.00	1.19	0.69	0.80	0.69	0.98	1/2	-	-	-	6.0	26
PAX3/8-N2U	3/8	1/4-18NPT	0.43	1.16	1.28	0.69	0.80	0.69	1.02	9/16	-	-	-	8.0	33
PAX3/8-N3U	3/8	3/8-18NPT	0.47	1.28	1.39	0.69	0.80	0.69	1.06	11/16	-	-	-	9.2	45
PAX3/8-N4U	3/8	1/2-14NPT	0.59	1.46	1.48	0.69	0.80	0.69	1.10	7/8	-	-	-	9.2	69
PAX1/2-N2U	1/2	1/4-18NPT	0.43	1.16	1.35	0.83	0.93	0.83	1.12	9/16	-	-	-	8.0	38
PAX1/2-N3U	1/2	3/8-18NPT	0.47	1.32	1.49	0.83	0.93	0.83	1.16	11/16	-	-	-	9.8	50
PAX1/2-N4U	1/2	1/2-14NPT	0.59	1.50	1.59	0.83	0.93	0.83	1.20	7/8	-	-	-	10.8	75

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	J	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name	
PAX4-M5④	4	M5×0.8	2.8 [3]	20	22.2 [22]	10	14.9	10.3	18.2	10	2.4	11	PAX4-M5_[C]	
PAX4-M6④		M6×1	3.8	21	22.2						3		PAX4-M6_[C]	
PAX4-01④		R1/8	8	23	24				3.9	20	19.2	14	13	PAX4-01_
PAX4-02④		R1/4	11	27	26								20	PAX4-02_
PAX6-M5④	6	M5×0.8	2.8 [3]	20.5	24 [23.8]	12.5	17	12.5	19.8	10	2.4	12	PAX6-M5_[C]	
PAX6-M6④		M6×1	3.8	21.5	24						3		13	PAX6-M6_[C]
PAX6-01④		R1/8	8	23.5	25.8				4.2	15	21.8	14	15	PAX6-01_
PAX6-02④		R1/4	11	29	29.2								22	PAX6-02_
PAX6-03④	R3/8	12	31.5	31.4	5.3	34	23.8	17	34	PAX6-03_				
PAX8-01④	8	R1/8	8	25	28.3	14.5	18.1	14.5	22.7	12	5.7	20	PAX8-01_	
PAX8-02④		R1/4	11	29	30.2				23.7	14	7.3	25	PAX8-02_	
PAX8-03④		R3/8	12	32	32.9				24.7	17	37	PAX8-03_		
PAX10-01④	10	R1/8	8	25.5	30.3	17.5	20.2	17.5	25	12	6	26	PAX10-01_	
PAX10-02④		R1/4	11	29.5	32.2				26	14	8	32	PAX10-02_	
PAX10-03④		R3/8	12	32.5	34.9				27	17	9.2	43	PAX10-03_	
PAX10-04④		R1/2	15	37	37.6				28	21	66	PAX10-04_		
PAX12-02④	12	R1/4	11	29.5	34	21	23.4	21	28.2	14	8	39	PAX12-02_	
PAX12-03④		R3/8	12	33.5	37.7				29.2	17	9.7	51	PAX12-03_	
PAX12-04④		R1/2	15	38	40.3				30.2	21	10.6	74	PAX12-04_	

PVX Tripod Elbow

RoHS compliant



unit: inch

❖ NPT and UNF thread

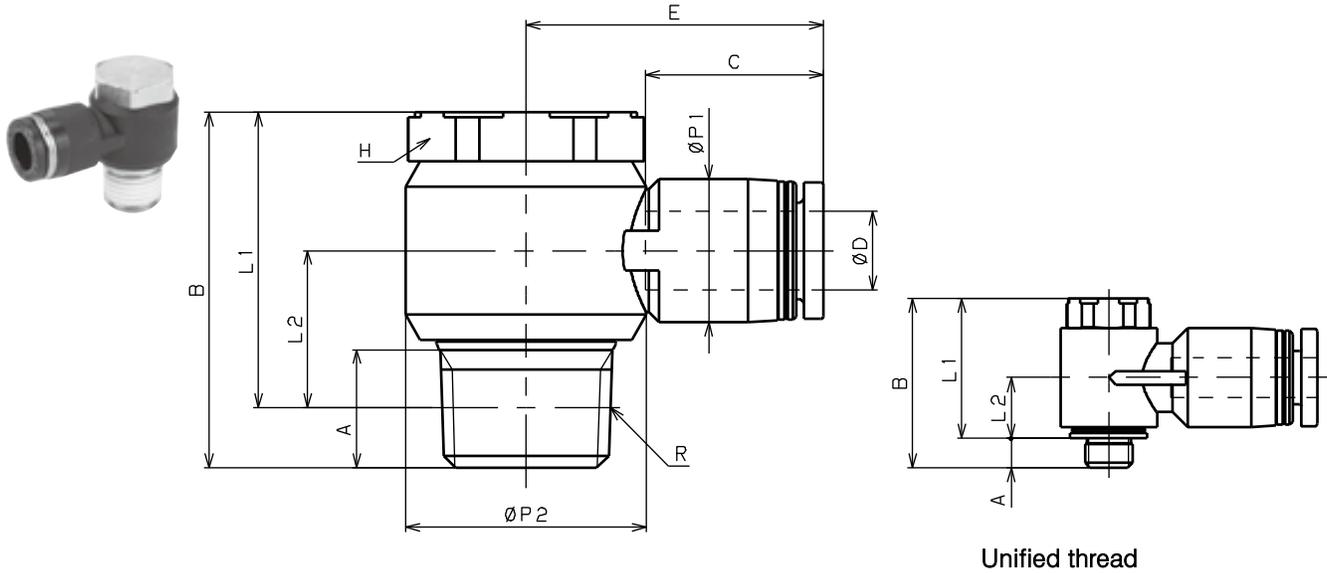
Model	Tube O.D. øD	R	A	B	L	øP	C	E	Hex.	ød	T	F	Orifice ø (mm)	Weight (g)
PVX5/32-U10U	5/32	No.10-32UNF	0.11	0.80	0.89	0.39	0.59	0.72	7/16	-	-	-	2.4	11
PVX5/32-N1U	5/32	1/8-27NPT	0.31	0.92	0.95	0.39	0.59	0.72	7/16	-	-	-	3.0	14
PVX5/32-N2U	5/32	1/4-18NPT	0.43	1.14	1.11	0.39	0.59	0.81	9/16	-	-	-	3.0	20
PVX3/16-U10U	3/16	No.10-32UNF	0.11	0.80	0.93	0.49	0.69	0.82	7/16	-	-	-	2.4	13
PVX3/16-N1U	3/16	1/8-27NPT	0.31	0.92	1.00	0.49	0.69	0.82	7/16	-	-	-	4.0	16
PVX3/16-N2U	3/16	1/4-18NPT	0.43	1.10	1.12	0.49	0.69	0.87	9/16	-	-	-	4.0	22
PVX3/16-N3U	3/16	3/8-18NPT	0.47	1.30	1.31	0.49	0.69	0.81	11/16	0.17	0.49	0.31	4.0	41
PVX1/4-U10U	1/4	No.10-32UNF	0.11	0.80	0.93	0.49	0.67	0.81	7/16	-	-	-	2.4	12
PVX1/4-N1U	1/4	1/8-27NPT	0.31	0.92	1.00	0.49	0.67	0.81	7/16	-	-	-	4.6	15
PVX1/4-N2U	1/4	1/4-18NPT	0.43	1.10	1.12	0.49	0.67	0.86	9/16	-	-	-	5.3	22
PVX1/4-N3U	1/4	3/8-18NPT	0.47	1.24	1.25	0.49	0.67	0.94	11/16	-	-	-	5.3	34
PVX5/16-N1U	5/16	1/8-27NPT	0.31	0.98	1.11	0.57	0.71	0.89	1/2	-	-	-	6.0	21
PVX5/16-N2U	5/16	1/4-18NPT	0.43	1.14	1.20	0.57	0.71	0.93	9/16	-	-	-	6.7	26
PVX5/16-N3U	5/16	3/8-18NPT	0.47	1.26	1.31	0.57	0.71	0.97	11/16	-	-	-	6.7	37
PVX3/8-N1U	3/8	1/8-27NPT	0.31	1.02	1.20	0.69	0.80	1.02	1/2	-	-	-	6.0	26
PVX3/8-N2U	3/8	1/4-18NPT	0.43	1.16	1.27	0.69	0.80	1.02	9/16	-	-	-	8.0	31
PVX3/8-N3U	3/8	3/8-18NPT	0.47	1.30	1.41	0.69	0.80	1.06	11/16	-	-	-	8.2	44
PVX3/8-N4U	3/8	1/2-14NPT	0.59	1.46	1.48	0.69	0.80	1.08	7/8	-	-	-	8.2	68
PVX1/2-N2U	1/2	1/4-18NPT	0.43	1.21	1.40	0.83	0.93	1.20	9/16	-	-	-	8.0	36
PVX1/2-N3U	1/2	3/8-18NPT	0.47	1.32	1.49	0.83	0.93	1.20	11/16	-	-	-	10.0	48
PVX1/2-N4U	1/2	1/2-14NPT	0.59	1.50	1.59	0.83	0.93	1.24	7/8	-	-	-	11.0	75

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PVX4-M5④	4	M5×0.8	2.8 [3]	20.3	22.5 [22.3]	10	14.9	18.2	10	2.4	10	PVX4-M5_C
PVX4-M6④		M6×1	3.8	21.3	22.5						11	PVX4-M6_C
PVX4-01④		R1/8	8	23.3	24.3			3	13	PVX4-01_		
PVX4-02④		R1/4	11	29	28				20	PVX4-02_		
PVX6-M5④	6	M5×0.8	2.8 [3]	20.3	23.7 [23.5]	12.5	17	20.5	10	2.4	12	PVX6-M5_C
PVX6-M6④		M6×1	3.8	21.3	23.7						3	12
PVX6-01④		R1/8	8	23.3	25.5			4.6	15	PVX6-01_		
PVX6-02④		R1/4	11	28	28.2				22	PVX6-02_		
PVX6-03④		R3/8	12	31.5	31.4				33	PVX6-03_		
PVX8-01④	8	R1/8	8	25	28.3	14.5	18.1	22.7	12	6.7	20	PVX8-01_
PVX8-02④		R1/4	11	29	30.2						25	PVX8-02_
PVX8-03④		R3/8	12	32	32.9			36	PVX8-03_			
PVX10-01④	10	R1/8	8	25.9	30.6	17.5	20.2	26	12	8.3	25	PVX10-01_
PVX10-02④		R1/4	11	29.4	32.1						31	PVX10-02_
PVX10-03④		R3/8	12	33	35.4			42	PVX10-03_			
PVX10-04④		R1/2	15	37	37.6			66	PVX10-04_			
PVX12-02④	12	R1/4	11	30.8	35.2	21	23.4	30.2	14	10.3	37	PVX12-02_
PVX12-03④		R3/8	12	33.5	37.7						49	PVX12-03_
PVX12-04④		R1/2	15	38	40.3			74	PVX12-04_			

PH Single Banjo

RoHS compliant



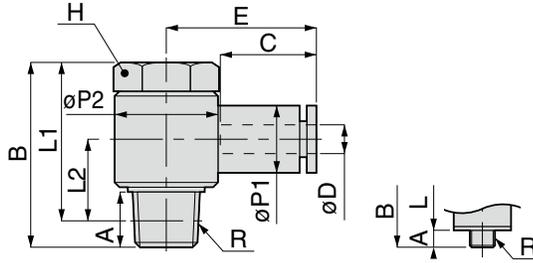
❖ NPT and UNF thread

unit: inch

Model	Tube O.D. φ D	R	A	B	L 1	L 2	φ P 1	φ P 2	C	E	Hex.	Orifice φ	Wt. (g)
PH4-N1U	4mm	1/8-27NPT	0.31	1.06	0.90	0.47	0.39	0.61	0.59	0.87	9/16	2.8	21
PH6-N1U	6mm	1/8-27NPT	0.31	1.06	0.90	0.47	0.49	0.61	0.67	0.95	9/16	4.6	22
PH6-N2U	6mm	1/4-18NPT	0.43	1.24	1.01	0.54	0.49	0.77	0.67	1.06	11/16	4.3	37
PH8-N1U	8mm	1/8-27NPT	0.31	1.06	0.90	0.48	0.57	0.61	0.71	1.03	9/16	5.5	23
PH8-N2U	8mm	1/4-18NPT	0.43	1.24	1.01	0.54	0.57	0.77	0.71	1.11	11/16	6.0	38
PH10-N2U	10mm	1/4-18NPT	0.43	1.24	1.01	0.60	0.71	0.77	0.80	1.20	11/16	7.0	41
PH10-N3U	10mm	3/8-18NPT	0.47	1.42	1.18	0.63	0.71	0.96	0.80	1.28	7/8	8.0	65
PH12-N4U	12mm	1/2-14NPT	0.51	1.58	1.26	0.65	0.83	1.18	0.92	1.50	1	10.0	99
PH5/32-U10U	5/32	No.10-32UNF	0.12	0.68	0.56	0.24	0.39	0.39	0.59	0.83	5/16	1.8	7.3
PH5/32-N1U	5/32	1/8-27NPT	0.31	1.06	0.90	0.47	0.39	0.61	0.59	0.87	9/16	2.8	21
PH3/16-U10U	3/16	No.10-32UNF	0.12	0.68	0.56	0.29	0.49	0.39	0.69	0.93	5/16	1.8	8.3
PH3/16-N1U	3/16	1/8-27NPT	0.31	1.06	0.90	0.47	0.49	0.61	0.69	0.97	9/16	4.0	22
PH3/16-N2U	3/16	1/4-18NPT	0.43	1.24	1.01	0.54	0.49	0.77	0.69	1.07	11/16	4.0	37
PH1/4-U10U	1/4	No.10-32UNF	0.12	0.68	0.56	0.29	0.49	0.39	0.67	0.91	5/16	1.8	8.1
PH1/4-N1U	1/4	1/8-27NPT	0.31	1.06	0.90	0.47	0.49	0.61	0.67	0.95	9/16	4.6	22
PH1/4-N2U	1/4	1/4-18NPT	0.43	1.24	1.01	0.54	0.49	0.77	0.67	1.06	11/16	4.3	37
PH5/16-N1U	5/16	1/8-27NPT	0.31	1.06	0.90	0.48	0.57	0.61	0.71	1.03	9/16	5.5	23
PH5/16-N2U	5/16	1/4-18NPT	0.43	1.24	1.01	0.54	0.57	0.77	0.71	1.11	11/16	6.0	38
PH5/16-N3U	5/16	3/8-18NPT	0.47	1.42	1.18	0.63	0.57	0.96	0.71	1.19	7/8	6.0	62
PH3/8-N2U	3/8	1/4-18NPT	0.43	1.24	1.01	0.60	0.71	0.77	0.80	1.20	11/16	7.0	42
PH3/8-N3U	3/8	3/8-18NPT	0.47	1.42	1.18	0.63	0.71	0.96	0.80	1.28	7/8	8.0	65
PH1/2-N3U	1/2	3/8-18NPT	0.47	1.42	1.18	0.69	0.83	0.96	0.93	1.40	7/8	9.3	67
PH1/2-N4U	1/2	1/2-14NPT	0.51	1.58	1.26	0.65	0.83	1.18	0.93	1.52	1	10.0	99

PH Single Banjo

RoHS compliant



Metric thread type

Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	øP1	øP2	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name					
PH4-M5④	4	M5×0.8	3 [3.2]	17.2	14.2 [14]	6.2 [6]	10	9.8	14.9	21.2	8	1.8	7.5	PH4-M5[C]					
PH4-M6④		M6×1	3.9 [4]	18.2	14.3 [14.2]	6.3 [6.2]								2.9	7.4	PH4-M6[C]			
PH4-01④		R1/8	8	27	23	12								15.4	22.2	14	2.8	21	PH4-01
PH6-M5④	6	M5×0.8	3 [3.2]	17.2	14.2 [14]	7.4 [7.2]	12.5	9.8	17	23.1	8	1.8	8.3	PH6-M5[C]					
PH6-M6④		M6×1	3.9 [4]	18.2	14.3 [14.2]	7.5 [7.4]								3	PH6-M6[C]				
PH6-01④		R1/8	8	27	23	12								15.4	24.2	14	4.6	22	PH6-01
PH6-02④		R1/4	11	31.5	25.5	13.5								19.6	26.8	17	4.3	36	PH6-02
PH8-01④	8	R1/8	8	27	23	12.3	14.5	15.4	18.1	26.2	14	5.5	23	PH8-01					
PH8-02④		R1/4	11	31.5	25.5	13.5								19.6	28.2	17	6	38	PH8-02
PH8-03④		R3/8	12	36	29.7	15.7								24.4	30.2	21	6	60	PH8-03
PH10-02④	10	R1/4	11	31.5	25.5	15	17.5	19.6	20.2	30.5	17	7.1	41	PH10-02					
PH10-03④		R3/8	12	36	29.7	15.7	18	24.4						32.5	21	8	63	PH10-03	
PH12-03④	12	R3/8	12	36	29.7	17.2	21	24.4	23.4	35.2	21	9.3	66	PH12-03					
PH12-04④		R1/2	13	40.2	32	16.5								30	38.2	24	10	97	PH12-04
PH16-03④	16	R3/8	12	46.1	39.8	21.3	25	28	24.1	36.6	24	13	92	PH16-03					
PH16-04④		R1/2	15	48.3	40.1	21.6								105	PH16-04				
PH5/32-M5④	5/32	M5×0.8	3 [3.2]	17.2	14.2 [14]	6.2 [6]	10	9.8	14.9	21.2	8	1.8	7.5	PH5_32-M5[C]					
PH5/32-01④		R1/8	8	27	23	12								15.4	22.2	14	2.8	21	PH5_32-01
PH3/16-M5④	3/16	M5×0.8	3 [3.2]	17.2	14.2 [14]	7.4 [7.2]	12.5	9.8	17.4	23.5	8	1.8	8.4	PH3_16-M5[C]					
PH3/16-01④		R1/8	8	27	23	12								15.4	24.6	14	4	21	PH3_16-01
PH3/16-02④		R1/4	11	31.5	25.5	13.5								19.6	27.2	17	4	35	PH3_16-02
PH1/4-M5④	1/4	M5×0.8	3 [3.2]	17.2	14.2 [14]	7.4 [7.2]	12.5	9.8	17	23.1	8	1.8	8.1	PH1_4-M5[C]					
PH1/4-01④		R1/8	8	27	23	12								15.4	24.2	14	4.6	22	PH1_4-01
PH1/4-02④		R1/4	11	31.5	25.5	13.5								19.6	26.8	17	4.7	36	PH1_4-02
PH5/16-01④	5/16	R1/8	8	27	23	12.3	14.5	15.4	18.1	26.2	14	5.5	23	PH5_16-01					
PH5/16-02④		R1/4	11	31.5	25.5	13.5								19.6	28.2	17	6	38	PH5_16-02
PH5/16-03④		R3/8	12	36	29.7	15.7								24.4	30.2	21	6	60	PH5_16-03
PH3/8-02④	3/8	R1/4	11	31.5	25.5	15	17.5	19.6	20.2	30.5	17	7.1	41	PH3_8-02					
PH3/8-03④		R3/8	12	36	29.7	15.7	18	24.4						32.5	21	8	63	PH3_8-03	
PH1/2-03④	1/2	R3/8	12	36	29.7	17.2	21	24.4	23.7	35.5	21	9.3	65	PH1_2-03					
PH1/2-04④		R1/2	13	40.2	32	16.5								30	38.5	24	10	97	PH1_2-04

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

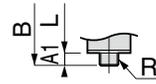
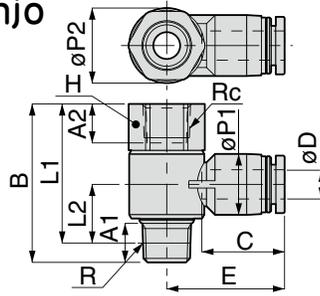
※ 2. "L1" and "L2" are reference values for height dimensions after tightening taper thread.

※ 3. Dimensions in [] are for clean-room and clean-wash package products.

※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

PHF Link-up Banjo

RoHS compliant



Metric thread type

Unit : mm

形式	Tube O.D. øD	R&Rc	A1	A2	B	L1	L2	øP1	øP2	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PHF4-M5④	4	M5×0.8	2.9 [3.2]	5	20.1	17.2 [16.9]	7.2 [6.9]	9.9	9.8	14.9	19.9	8	1.5	7.9	PHF4-M5[C]
PHF4-01④		R1/8	8	7	32.5	28.5	12	10	15.4		22.2	14	2.8	23	PHF4-01
PHF6-M5④	6	M5×0.8	2.9 [3.2]	5	20.1	17.2 [16.9]	8.4 [8.1]	12.4	9.8	17	24	8	1.5	9	PHF6-M5[C]
PHF6-01④		R1/8	8	7	32.5	28.5	12	12.5	15.4		24.2	14	4.6	24	PHF6-01
PHF6-02④		R1/4	11	9.5	38.5	32.5	13.5		19.6		26.8	17	4.3	38	PHF6-02
PHF8-01④	8	R1/8	8	7	32.5	28.5	12.3	14.5	15.4	18.1	26.2	14	5.5	25	PHF8-01
PHF8-02④		R1/4	11	9.5	38.5	32.5	13.5		19.6		28.2	17	6	39	PHF8-02
PHF8-03④		R3/8	12	10.5	44.5	38.2	15.7		24.4		30.2	21		63	PHF8-03
PHF10-02④	10	R1/4	11	9.5	38.5	32.5	15	17.5	19.6	20.2	30.5	17	7.1	42	PHF10-02
PHF10-03④		R3/8	12	10.5	44.5	38.2	15.7	18	24.4		32.5	21	8	66	PHF10-03
PHF12-03④	12	R3/8	12	10.5	44.5	38.2	17.2	21	24.4	23.4	35.2	21	9.3	69	PHF12-03
PHF12-04④		R1/2	13	13	52.2	44	16.5		30		38.2	24	10	102	PHF12-04
PHF5/32-M5④	5/32	M5×0.8	2.9 [3.2]	5	20.1	17.2 [16.9]	7.2 [6.9]	9.9	9.8	14.9	19.9	8	1.5	7.9	PHF5_32-M5[C]
PHF5/32-01④		R1/8	8	7	32.5	28.5	12	10	15.4		22.2	14	2.8	23	PHF5_32-01
PHF3/16-M5④	3/16	M5×0.8	2.9 [3.2]	5	20.1	17.2 [16.9]	8.4 [8.1]	12.4	9.8	17.4	24.4	8	1.5	8.9	PHF3_16-M5[C]
PHF3/16-01④		R1/8	8	7	32.5	28.5	12	12.5	15.4		24.6	14	4	23	PHF3_16-01
PHF3/16-02④		R1/4	11	9.5	38.5	32.5	13.5		19.6		27.2	17		37	PHF3_16-02
PHF1/4-M5④	1/4	M5×0.8	2.9 [3.2]	5	20.1	17.2 [16.9]	8.4 [8.1]	12.4	9.8	17	24	8	1.5	8.9	PHF1_4-M5[C]
PHF1/4-01④		R1/8	8	7	32.5	28.5	12	12.5	15.4		24.2	14	4.6	24	PHF1_4-01
PHF1/4-02④		R1/4	11	9.5	38.5	32.5	13.5		19.6		26.8	17	4.7	38	PHF1_4-02
PHF5/16-01④	5/16	R1/8	8	7	32.5	28.5	12.3	14.5	15.4	18.1	26.2	14	5.5	25	PHF5_16-01
PHF5/16-02④		R1/4	11	9.5	38.5	32.5	13.5		19.6		28.2	17	6	39	PHF5_16-02
PHF5/16-03④		R3/8	12	10.5	44.5	38.2	15.7		24.4		30.2	21		63	PHF5_16-03
PHF3/8-02④	3/8	R1/4	11	9.5	38.5	32.5	15	17.5	19.6	20.2	30.5	17	7.1	43	PHF3_8-02
PHF3/8-03④		R3/8	12	10.5	44.5	38.2	15.7	18	24.4		32.5	21	8	66	PHF3_8-03
PHF1/2-03④	1/2	R3/8	12	10.5	44.5	38.2	17.2	21	24.4	23.7	35.5	21	9.3	67	PHF1_2-03
PHF1/2-04④		R1/2	13	13	52.2	44	16.5		30		38.5	24	10	102	PHF1_2-04

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

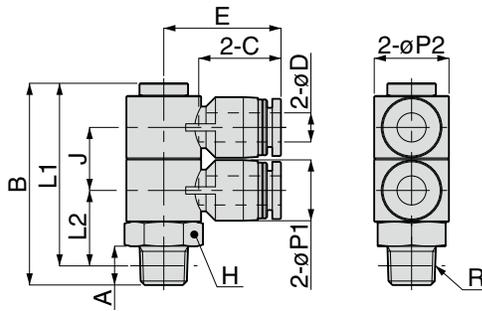
※ 2. "L1" and "L2" are reference values for height dimensions after tightening taper thread.

※ 3. Dimensions in [] are for clean-room and clean-wash package products.

※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

PHW Double Banjo

RoHS compliant



❖ NPT thread

unit: inch

Model	Tube O.D øD	R	A	B	L1	L2	J	øP1	øP2	C	E	Hex.	Orifice ø (mm)	Weight (g)
PHW5/32-N1U	5/32	1/8-27NPT	0.31	1.64	1.48	0.61	0.51	0.39	0.61	0.59	0.87	9/16	3.0	26
PHW5/32-N2U	5/32	1/4-18NPT	0.43	1.76	1.53	0.66	0.51	0.39	0.61	0.59	0.87	9/16	3.0	31
PHW1/4-N1U	1/4	1/8-27NPT	0.31	1.64	1.48	0.61	0.51	0.49	0.61	0.67	0.95	9/16	4.6	29
PHW1/4-N2U	1/4	1/4-18NPT	0.43	1.76	1.53	0.66	0.51	0.49	0.61	0.67	0.95	9/16	4.6	34
PHW1/4-N3U	1/4	3/8-18NPT	0.47	1.83	1.59	0.72	0.51	0.49	0.61	0.67	0.95	11/16	4.6	47
PHW5/16-N2U	5/16	1/4-18NPT	0.43	1.95	1.72	0.74	0.59	0.57	0.75	0.71	1.09	11/16	6.0	47
PHW5/16-N3U	5/16	3/8-18NPT	0.47	1.99	1.75	0.76	0.59	0.57	0.75	0.71	1.09	11/16	6.0	55
PHW5/16-N4U	5/16	1/2-14NPT	0.59	2.19	1.87	0.88	0.59	0.57	0.75	0.71	1.09	7/8	6.0	85
PHW3/8-N2U	3/8	1/4-18NPT	0.43	2.27	2.04	0.87	0.71	0.69	0.91	0.80	1.25	7/8	7.5	81
PHW3/8-N3U	3/8	3/8-18NPT	0.47	2.31	2.07	0.90	0.71	0.69	0.91	0.80	1.25	7/8	7.5	84
PHW3/8-N4U	3/8	1/2-14NPT	0.59	2.43	2.11	0.94	0.71	0.69	0.91	0.80	1.25	7/8	7.5	96
PHW1/2-N3U	1/2	3/8-18NPT	0.47	2.71	2.47	1.09	0.85	0.83	1.06	0.93	1.46	1 1/8	10.0	139
PHW1/2-N4U	1/2	1/2-14NPT	0.59	2.83	2.51	1.13	0.85	0.83	1.06	0.93	1.46	1 1/8	10.0	148

Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	J	øP1	øP2	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PHW4-01 ④	4	R1/8	8	41.6	37.6	15.5	13	10	15.4	14.9	22.2	14	3	26	PHW4-01
PHW4-02 ④		R1/4	11	44.6	38.6	16.5								32	PHW4-02
PHW4-03 ④		R3/8	12	46.6	40.3	18.2								46	PHW4-03
PHW6-01 ④	6	R1/8	8	41.6	37.6	15.5	13	12.5	15.4	17	24.2	14	4.1	28	PHW6-01
PHW6-02 ④		R1/4	11	44.6	38.6	16.5								34	PHW6-02
PHW6-03 ④		R3/8	12	46.6	40.3	18.2								48	PHW6-03
PHW8-01 ④	8	R1/8	8	46.6	42.6	17.5	15	14.5	19	18.1	27.7	17	6	44	PHW8-01
PHW8-02 ④		R1/4	11	49.6	43.6	18.5								47	PHW8-02
PHW8-03 ④		R3/8	12	50.6	44.3	19.2								54	PHW8-03
PHW8-04 ④		R1/2	15	55.6	47.4	22.3						87		PHW8-04	
PHW10-02 ④	10	R1/4	11	57.6	51.6	22	18	17.5	23	20.2	31.7	22	7.5	80	PHW10-02
PHW10-03 ④		R3/8	12	58.6	52.3	22.7								83	PHW10-03
PHW10-04 ④		R1/2	15	61.6	53.4	23.8								100	PHW10-04
PHW12-02 ④	12	R1/4	11	67.8	61.8	26.8	21.6	21	27	23.4	36.7	27	8.5	137	PHW12-02
PHW12-03 ④		R3/8	12	68.8	62.5	27.5								139	PHW12-03
PHW12-04 ④		R1/2	15	71.8	63.6	28.6								148	PHW12-04
PHW1/4-01 ④	1/4	R1/8	8	41.6	37.6	15.5	13	12.5	15.4	17	24.2	14	4.6	28	PHW1_4-01
PHW1/4-02 ④		R1/4	11	44.6	38.6	16.5								34	PHW1_4-02
PHW1/4-03 ④		R3/8	12	46.6	40.3	18.2								48	PHW1_4-03
PHW5/16-02 ④	5/16	R1/4	11	49.6	43.6	18.5	15	14.5	19	18.1	27.7	17	6	47	PHW5_16-02
PHW5/16-03 ④		R3/8	12	50.6	44.3	19.2								54	PHW5_16-03
PHW5/16-04 ④		R1/2	15	55.6	47.4	22.3								87	PHW5_16-04
PHW3/8-02 ④	3/8	R1/4	11	57.6	51.6	22	18	17.5	23	20.2	31.7	22	7.5	80	PHW3_8-02
PHW3/8-03 ④		R3/8	12	58.6	52.3	22.7								83	PHW3_8-03
PHW3/8-04 ④		R1/2	15	61.6	53.4	23.8								100	PHW3_8-04

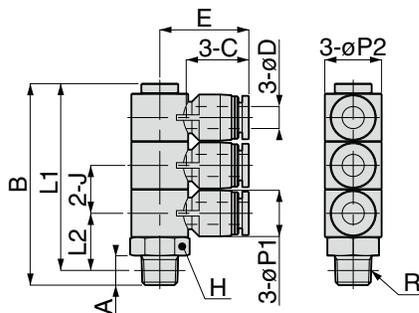
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. "L1" and "L2" are reference values for height dimensions after tightening thread.

※ 3. Orifice bore is the smallest passage converted in terms of the diameter.

PHT Triple Banjo

RoHS compliant



❖ NPT thread

unit: inch

Model	Tube O.D φD	R	A	B	L1	L2	J	φP1	φP2	C	E	Hex.	Orifice φ (mm)	Weight (g)
PHT5/32-N1U	5/32	1/8-27NPT	0.31	2.15	1.99	0.61	0.51	0.39	0.61	0.59	0.87	9/16	3.0	33
PHT5/32-N2U	5/32	1/4-18NPT	0.43	2.27	2.04	0.66	0.51	0.39	0.61	0.59	0.87	9/16	3.0	38
PHT1/4-N1U	1/4	1/8-27NPT	0.31	2.15	1.99	0.61	0.51	0.49	0.61	0.67	0.95	9/16	4.6	36
PHT1/4-N2U	1/4	1/4-18NPT	0.43	2.27	2.04	0.66	0.51	0.49	0.61	0.67	0.95	9/16	4.6	41
PHT1/4-N3U	1/4	3/8-18NPT	0.47	2.35	2.11	0.72	0.51	0.49	0.61	0.67	0.95	11/16	4.6	55
PHT5/16-N2U	5/16	1/4-18NPT	0.43	2.55	2.32	0.74	0.59	0.57	0.75	0.71	1.09	11/16	6.0	59
PHT5/16-N3U	5/16	3/8-18NPT	0.47	2.59	2.35	0.76	0.59	0.57	0.75	0.71	1.09	11/16	6.0	67
PHT5/16-N4U	5/16	1/2-14NPT	0.59	2.78	2.46	0.88	0.59	0.57	0.75	0.71	1.09	7/8	6.0	97
PHT3/8-N2U	3/8	1/4-18NPT	0.43	2.98	2.75	0.87	0.71	0.69	0.91	0.80	1.25	7/8	7.5	100
PHT3/8-N3U	3/8	3/8-18NPT	0.47	3.02	2.78	0.90	0.71	0.69	0.91	0.80	1.25	7/8	7.5	103
PHT3/8-N4U	3/8	1/2-14NPT	0.59	3.14	2.82	0.94	0.71	0.69	0.91	0.80	1.25	7/8	7.5	116
PHT1/2-N3U	1/2	3/8-18NPT	0.47	3.56	3.32	1.09	0.85	0.83	1.06	0.93	1.46	1 1/8	10.0	170
PHT1/2-N4U	1/2	1/2-14NPT	0.59	3.68	3.36	1.13	0.85	0.83	1.06	0.93	1.46	1 1/8	10.0	179

Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	J	øP1	øP2	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PHT4-01 ④	4	R1/8	8	54.7	50.7	15.5	13	10	15.4	14.9	22.2	14	3	33	PHT4-01
PHT4-02 ④		R1/4	11	57.7	51.7	16.5						17		39	PHT4-02
PHT4-03 ④		R3/8	12	59.7	53.4	18.2						17		52	PHT4-03
PHT6-01 ④	6	R1/8	8	54.7	50.7	15.5	13	12.5	15.4	17	24.2	14	4.1	35	PHT6-01
PHT6-02 ④		R1/4	11	57.7	51.7	16.5						17		41	PHT6-02
PHT6-03 ④		R3/8	12	59.7	53.4	18.2						17		55	PHT6-03
PHT8-01 ④	8	R1/8	8	61.7	57.7	17.5	15	14.5	19	18.1	27.7	17	6	56	PHT8-01
PHT8-02 ④		R1/4	11	64.7	58.7	18.5								59	PHT8-02
PHT8-03 ④		R3/8	12	65.7	59.4	19.2								66	PHT8-03
PHT8-04 ④		R1/2	15	70.7	62.5	22.3						22		99	PHT8-04
PHT10-02 ④	10	R1/4	11	75.7	69.7	22	18	17.5	23	20.2	31.7	22	7.5	99	PHT10-02
PHT10-03 ④		R3/8	12	76.7	70.4	22.7								102	PHT10-03
PHT10-04 ④		R1/2	15	79.7	71.5	23.8								119	PHT10-04
PHT12-02 ④	12	R1/4	11	89.5	83.5	26.8	21.6	21	27	23.4	36.7	27	8.5	169	PHT12-02
PHT12-03 ④		R3/8	12	90.5	84.2	27.5								171	PHT12-03
PHT12-04 ④		R1/2	15	93.5	85.3	28.6								180	PHT12-04
PHT1/4-01 ④	1/4	R1/8	8	54.7	50.7	15.5	13	12.5	15.4	17	24.2	14	4.6	35	PHT1_4-01
PHT1/4-02 ④		R1/4	11	57.7	51.7	16.5						41		PHT1_4-02	
PHT1/4-03 ④		R3/8	12	59.7	53.4	18.2						17		55	PHT1_4-03
PHT5/16-02 ④	5/16	R1/4	11	64.7	58.7	18.5	15	14.5	19	18.1	27.7	17	6	59	PHT5_16-02
PHT5/16-03 ④		R3/8	12	65.7	59.4	19.2								66	PHT5_16-03
PHT5/16-04 ④		R1/2	15	70.7	62.5	22.3						22		99	PHT5_16-04
PHT3/8-02 ④	3/8	R1/4	11	75.7	69.7	22	18	17.5	23	20.2	31.7	22	7.5	100	PHT3_8-02
PHT3/8-03 ④		R3/8	12	76.7	70.4	22.7								103	PHT3_8-03
PHT3/8-04 ④		R1/2	15	79.7	71.5	23.8								119	PHT3_8-04

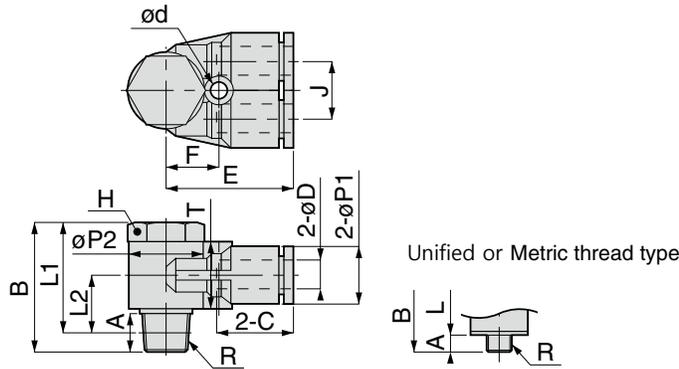
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. "L1" and "L2" are reference values for height dimensions after tightening thread.

※ 3. Orifice bore is the smallest passage converted in terms of the diameter.

PA Twin Banjo

RoHS compliant



Unified or Metric thread type

❖ NPT thread

unit: inch

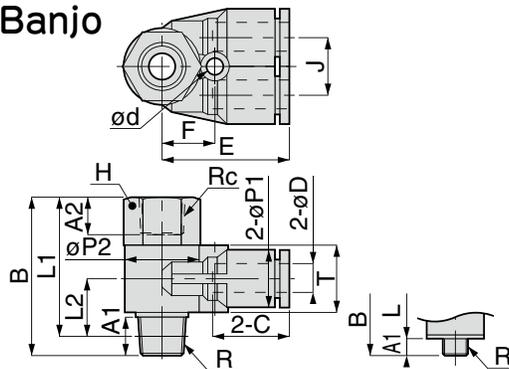
Model	Tube O.D. øD	R	A	B	L1	L2	øP1	øP2	C	J	E	ød	F	Hex.	T	Orifice ø (mm)	Weight (g)
PA5/32-U10U	5/32	No.10-32UNF	0.12	0.68	0.56	0.24	0.39	0.39	0.59	0.39	0.80	—	—	5/16	-	1.8	9.5
PA3/16-N1U	3/16	1/8-27NPT	0.31	1.06	0.90	0.47	0.49	0.61	0.69	0.47	1.05	0.13	0.42	9/16	0.55	3.6	26
PA1/4-N1U	1/4	1/8-27NPT	0.31	1.06	0.90	0.47	0.49	0.61	0.67	0.47	1.03	0.13	0.42	9/16	0.55	4.2	25
PA5/16-N2U	5/16	1/4-18NPT	0.43	1.24	1.01	0.54	0.57	0.75	0.72	0.55	1.16	0.13	0.49	11/16	0.59	6.0	43
PA3/8-N3U	3/8	3/8-18NPT	0.47	1.42	1.18	0.63	0.69	0.91	0.81	0.67	1.32	0.17	0.59	7/8	0.71	8.0	72
PA1/2-N4U	1/2	1/2-14NPT	0.51	1.58	1.26	0.65	0.83	1.06	0.93	0.79	1.48	0.17	0.67	1	0.83	10.0	106

Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	øP1	øP2	Tube end C	J	E	ød	F	T	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PA4-M5④	4	M5×0.8	3 [3.2]	17.2	14.2 [14]	6.2 [6]	10	9.8	14.9	10	20.2	—	—	—	8	1.8	9.6	PA4-M5[C]
PA6-01④	6	R1/8	8	27	23	12	12.4	15.4	17	12	26.2	3.2	10.7	14	14	4.2	25	PA6-01
PA8-02④	8	R1/4	11	31.5	25.5	13.5	14.4	19	18.2	14	29.4	3.2	12.5	15	17	6	42	PA8-02
PA10-03④	10	R3/8	12	36	29.7	15.7	17.6	23	20.7	17	33.5	4.2	15	18	21	8	70	PA10-03
PA12-04④	12	R1/2	13	40.2	32	16.5	21	27	23.4	20	37.4	4.2	17	21	24	10	106	PA12-04

PAF Link-up Twin Banjo

RoHS compliant



Metric thread type Unit : mm

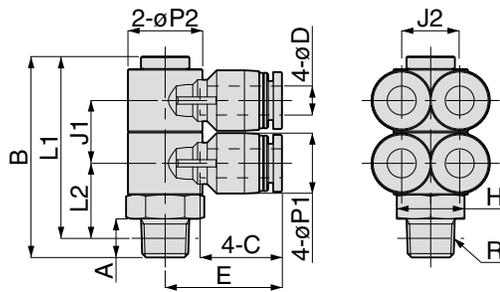
Model code	Tube O.D. øD	R&Rc	A1	A2	B	L1	L2	øP1	øP2	Tube end C	J	E	ød	F	T	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PAF4-M5④	4	M5×0.8	3 [3.2]	5	20.2	17.2 [17]	6.2 [6]	10	9.8	14.9	10	20.2	—	—	—	8	1.8	11	PAF4-M5[C]
PAF6-01④	6	R1/8	8	7	32.5	28.5	12	12.4	15.4	17	12	26.2	3.2	10.7	14	14	4.2	27	PAF6-01
PAF8-02④	8	R1/4	11	9.5	38.5	32.5	13.5	14.4	19	18.2	14	29.4	3.2	12.5	15	17	6	44	PAF8-02
PAF10-03④	10	R3/8	12	10.5	44.5	38.2	15.7	17.6	23	20.7	17	33.5	4.2	15	18	21	8	73	PAF10-03
PAF12-03④	12	R3/8	12	10.5	51.2	44.9	17.4	21	27	23.4	20	37.4	4.2	17	21	24	9.3	123	PAF12-03
PAF12-04④		R1/2	13	13	52.2	44	16.5										10	111	PAF12-04

Common caution in this page

- ※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package
- ※ 2. "L1" and "L2" are reference values for height dimensions after tightening taper thread.
- ※ 3. Dimensions in [] are for clean-room and clean-wash package products.
- ※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

PAW Double Twin Banjo

RoHS compliant



❖ NPT thread

unit: inch

Model	Tube O.D. φD	R	A	B	L1	L2	J1	J2	φP1	φP2	C	E	Hex.	Orifice φ (mm)	Weight (g)
PAW5/32-N1U	5/32	1/8-27NPT	0.31	1.64	1.48	0.61	0.51	0.39	0.39	0.61	0.59	0.87	9/16	3.0	31
PAW5/32-N2U	5/32	1/4-18NPT	0.43	1.76	1.53	0.66	0.51	0.39	0.39	0.61	0.59	0.87	9/16	3.0	36
PAW1/4-N1U	1/4	1/8-27NPT	0.31	1.64	1.48	0.61	0.51	0.47	0.49	0.61	0.67	0.95	9/16	4.1	35
PAW1/4-N2U	1/4	1/4-18NPT	0.43	1.76	1.53	0.66	0.51	0.47	0.49	0.61	0.67	0.95	9/16	4.1	40
PAW1/4-N3U	1/4	3/8-18NPT	0.47	1.83	1.59	0.72	0.51	0.47	0.49	0.61	0.67	0.95	11/16	4.1	54
PAW5/16-N2U	5/16	1/4-18NPT	0.43	1.95	1.72	0.74	0.59	0.55	0.57	0.75	0.71	1.09	11/16	6.0	57
PAW5/16-N3U	5/16	3/8-18NPT	0.47	1.99	1.75	0.76	0.59	0.55	0.57	0.75	0.71	1.09	11/16	6.0	64
PAW5/16-N4U	5/16	1/2-14NPT	0.59	2.19	1.87	0.88	0.59	0.55	0.57	0.75	0.71	1.09	7/8	6.0	94
PAW3/8-N2U	3/8	1/4-18NPT	0.43	2.27	2.04	0.87	0.71	0.67	0.69	0.91	0.80	1.25	7/8	7.5	96
PAW3/8-N3U	3/8	3/8-18NPT	0.47	2.31	2.07	0.90	0.71	0.67	0.69	0.91	0.80	1.25	7/8	7.5	99
PAW3/8-N4U	3/8	1/2-14NPT	0.59	2.43	2.11	0.94	0.71	0.67	0.69	0.91	0.80	1.25	7/8	7.5	116
PAW1/2-N3U	1/2	3/8-18NPT	0.47	2.71	2.47	1.09	0.85	0.79	0.83	1.06	0.93	1.46	1 1/8	9.7	160
PAW1/2-N4U	1/2	1/2-14NPT	0.59	2.83	2.51	1.13	0.85	0.79	0.83	1.06	0.93	1.46	1 1/8	9.7	169

Unit : mm

Model code	Tube O.D. φD	R	A	B	L1	L2	J1	J2	φP1	φP2	Tube end C	E	Hex. H	Orifice bore (φmm)	Weight (g)	CAD file name
PAW4-01 ④	4	R1/8	8	41.6	37.6	15.5	13	10	10	15.4	14.9	22.2	14	3	31	PAW4-01
PAW4-02 ④		R1/4	11	44.6	38.6	16.5									37	PAW4-02
PAW4-03 ④		R3/8	12	46.6	40.3	18.2									51	PAW4-03
PAW6-01 ④	6	R1/8	8	41.6	37.6	15.5	13	12	12.5	15.4	17	24.2	14	3.7	35	PAW6-01
PAW6-02 ④		R1/4	11	44.6	38.6	16.5									40	PAW6-02
PAW6-03 ④		R3/8	12	46.6	40.3	18.2									54	PAW6-03
PAW8-01 ④	8	R1/8	8	46.6	42.6	17.5	15	14	14.5	19	18.1	27.7	17	6	54	PAW8-01
PAW8-02 ④		R1/4	11	49.6	43.6	18.5									56	PAW8-02
PAW8-03 ④		R3/8	12	50.6	44.3	19.2									64	PAW8-03
PAW8-04 ④		R1/2	15	55.6	47.4	22.3							96		PAW8-04	
PAW10-02 ④	10	R1/4	11	57.6	51.6	22	18	17	17.5	23	20.2	31.7	22	7.5	95	PAW10-02
PAW10-03 ④		R3/8	12	58.6	52.3	22.7									98	PAW10-03
PAW10-04 ④		R1/2	15	61.6	53.4	23.8									115	PAW10-04
PAW12-02 ④	12	R1/4	11	67.8	61.8	26.8	21.6	20	21	27	23.4	36.7	27	8.5	160	PAW12-02
PAW12-03 ④		R3/8	12	68.8	62.5	27.5									162	PAW12-03
PAW12-04 ④		R1/2	15	71.8	63.6	28.6									171	PAW12-04
PAW1/4-01 ④	1/4	R1/8	8	41.6	37.6	15.5	13	12	12.5	15.4	17	24.2	14	4.1	34	PAW1_4-01
PAW1/4-02 ④		R1/4	11	44.6	38.6	16.5									40	PAW1_4-02
PAW1/4-03 ④		R3/8	12	46.6	40.3	18.2							54		PAW1_4-03	
PAW5/16-02 ④	5/16	R1/4	11	49.6	43.6	18.5	15	14	14.5	19	18.1	27.7	17	6	56	PAW5_16-02
PAW5/16-03 ④		R3/8	12	50.6	44.3	19.2									64	PAW5_16-03
PAW5/16-04 ④		R1/2	15	55.6	47.4	22.3							96		PAW5_16-04	
PAW3/8-02 ④	3/8	R1/4	11	57.6	51.6	22	18	17	17.5	23	20.2	31.7	22	7.5	96	PAW3_8-02
PAW3/8-03 ④		R3/8	12	58.6	52.3	22.7									99	PAW3_8-03
PAW3/8-04 ④		R1/2	15	61.6	53.4	23.8									116	PAW3_8-04

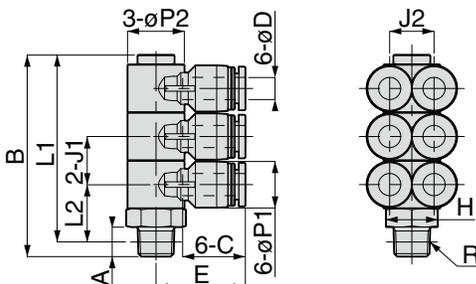
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. "L1" and "L2" are reference values for height dimensions after tightening thread.

※ 3. Orifice bore is the smallest passage converted in terms of the diameter.

PAT Triple Twin Banjo

RoHS compliant



❖ NPT thread

unit: inch

Model	Tube O.D φD	R	A	B	L1	L2	J1	J2	φP1	φP2	C	E	Hex.	Orifice φ (mm)	Weight (g)
PAT5/32-N1U	5/32	1/8-27NPT	0.31	2.15	1.99	0.61	0.51	0.39	0.39	0.61	0.59	0.87	9/16	3.0	40
PAT5/32-N2U	5/32	1/4-18NPT	0.43	2.27	2.04	0.66	0.51	0.39	0.39	0.61	0.59	0.87	9/16	3.0	46
PAT1/4-N1U	1/4	1/8-27NPT	0.31	2.15	1.99	0.61	0.51	0.47	0.49	0.61	0.67	0.95	9/16	4.1	46
PAT1/4-N2U	1/4	1/4-18NPT	0.43	2.27	2.04	0.66	0.51	0.47	0.49	0.61	0.67	0.95	9/16	4.1	51
PAT1/4-N3U	1/4	3/8-18NPT	0.47	2.35	2.11	0.72	0.51	0.47	0.49	0.61	0.67	0.95	11/16	4.1	64
PAT5/16-N2U	5/16	1/4-18NPT	0.43	2.55	2.32	0.74	0.59	0.55	0.57	0.75	0.71	1.09	11/16	6.0	73
PAT5/16-N3U	5/16	3/8-18NPT	0.47	2.59	2.35	0.76	0.59	0.55	0.57	0.75	0.71	1.09	11/16	6.0	81
PAT5/16-N4U	5/16	1/2-14NPT	0.59	2.78	2.46	0.88	0.59	0.55	0.57	0.75	0.71	1.09	7/8	6.0	111
PAT3/8-N2U	3/8	1/4-18NPT	0.43	2.98	2.75	0.87	0.71	0.67	0.69	0.91	0.80	1.25	7/8	7.5	124
PAT3/8-N3U	3/8	3/8-18NPT	0.47	3.02	2.78	0.90	0.71	0.67	0.69	0.91	0.80	1.25	7/8	7.5	126
PAT3/8-N4U	3/8	1/2-14NPT	0.59	3.14	2.82	0.94	0.71	0.67	0.69	0.91	0.80	1.25	7/8	7.5	140
PAT1/2-N3U	1/2	3/8-18NPT	0.47	3.56	3.32	1.09	0.85	0.79	0.83	1.06	0.93	1.46	1 1/8	9.7	202
PAT1/2-N4U	1/2	1/2-14NPT	0.59	3.68	3.36	1.13	0.85	0.79	0.83	1.06	0.93	1.46	1 1/8	9.7	211

Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	J1	J2	øP1	øP2	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PAT4-01 ④	4	R1/8	8	54.7	50.7	15.5	13	10	10	15.4	14.9	22.2	14	3	40	PAT4-01
PAT4-02 ④		R1/4	11	57.7	51.7	16.5									46	PAT4-02
PAT4-03 ④		R3/8	12	59.7	53.4	18.2									60	PAT4-03
PAT6-01 ④	6	R1/8	8	54.7	50.7	15.5	13	12	12.5	15.4	17	24.2	14	3.7	45	PAT6-01
PAT6-02 ④		R1/4	11	57.7	51.7	16.5									51	PAT6-02
PAT6-03 ④		R3/8	12	59.7	53.4	18.2									65	PAT6-03
PAT8-01 ④	8	R1/8	8	61.7	57.7	17.5	15	14	14.5	19	18.1	27.7	17	6	71	PAT8-01
PAT8-02 ④		R1/4	11	64.7	58.7	18.5									73	PAT8-02
PAT8-03 ④		R3/8	12	65.7	59.4	19.2									81	PAT8-03
PAT8-04 ④		R1/2	15	70.7	62.5	22.3							113		PAT8-04	
PAT10-02 ④	10	R1/4	11	75.7	69.7	22	18	17	17.5	23	20.2	31.7	22	7.5	122	PAT10-02
PAT10-03 ④		R3/8	12	76.7	70.4	22.7									126	PAT10-03
PAT10-04 ④		R1/2	15	79.7	71.5	23.8									142	PAT10-04
PAT12-02 ④	12	R1/4	11	89.5	83.5	26.8	21.6	20	21	27	23.4	36.7	27	8.5	203	PAT12-02
PAT12-03 ④		R3/8	12	90.5	84.2	27.5									205	PAT12-03
PAT12-04 ④		R1/2	15	93.5	85.3	28.6									214	PAT12-04
PAT1/4-01 ④	1/4	R1/8	8	54.7	50.7	15.5	13	12	12.5	15.4	17	24.2	14	4.1	45	PAT1_4-01
PAT1/4-02 ④		R1/4	11	57.7	51.7	16.5									50	PAT1_4-02
PAT1/4-03 ④		R3/8	12	59.7	53.4	18.2									64	PAT1_4-03
PAT5/16-02 ④	5/16	R1/4	11	64.7	58.7	18.5	15	14	14.5	19	18.1	27.7	17	6	73	PAT5_16-02
PAT5/16-03 ④		R3/8	12	65.7	59.4	19.2									81	PAT5_16-03
PAT5/16-04 ④		R1/2	15	70.7	62.5	22.3							113		PAT5_16-04	
PAT3/8-02 ④	3/8	R1/4	11	75.7	69.7	22	18	17	17.5	23	20.2	31.7	22	7.5	124	PAT3_8-02
PAT3/8-03 ④		R3/8	12	76.7	70.4	22.7									125	PAT3_8-03
PAT3/8-04 ④		R1/2	15	79.7	71.5	23.8									143	PAT3_8-04

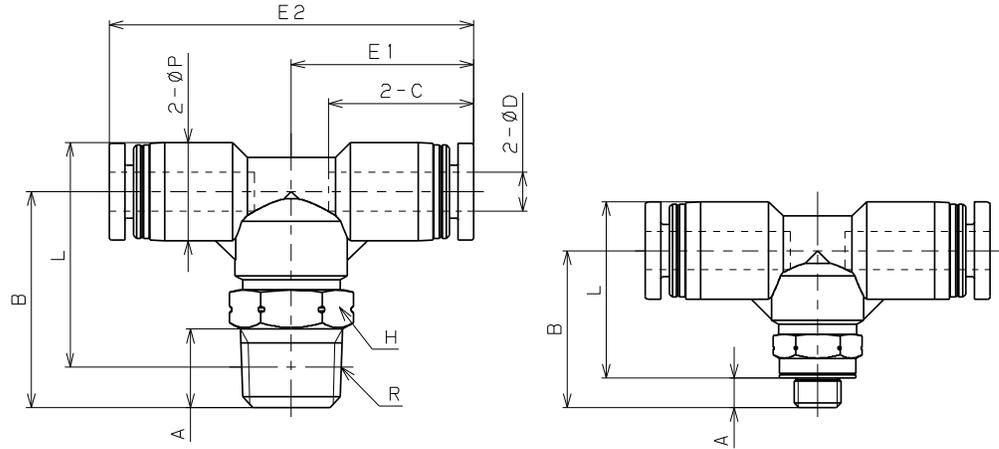
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. "L1" and "L2" are reference values for height dimensions after tightening thread.

※ 3. Orifice bore is the smallest passage converted in terms of the diameter.



Branch Tee



Unified thread

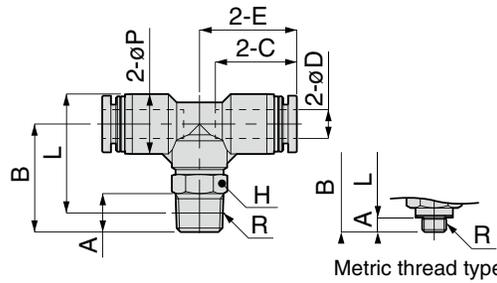
❖ NPT and UNF thread

unit: inch

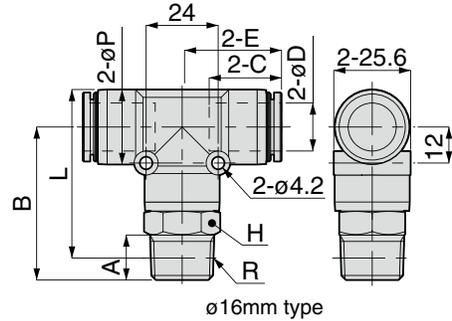
Model	Tube O.D. φD	R	A	B	L	φP	C	E1	E2	Hex.	Orifice (φ mm)	Weight (g)
PB5/32-U10U	5/32	No.10-32UNF	0.11	0.63	0.72	0.39	0.59	0.70	1.39	5/16	2.4	7.9
PB5/32-N1U	5/32	1/8-27NPT	0.31	0.87	0.90	0.39	0.59	0.74	1.47	7/16	2.8	14
PB5/32-N2U	5/32	1/4-18NPT	0.43	1.14	1.11	0.39	0.59	0.81	1.63	9/16	2.8	20
PB3/16-U10U	3/16	No.10-32UNF	0.11	0.77	0.91	0.49	0.69	0.81	1.63	7/16	2.4	13
PB3/16-N1U	3/16	1/8-27NPT	0.31	0.89	0.97	0.49	0.69	0.81	1.63	7/16	3.3	16
PB3/16-N2U	3/16	1/4-18NPT	0.43	1.10	1.12	0.49	0.69	0.87	1.74	9/16	3.3	22
PB3/16-N3U	3/16	3/8-18NPT	0.47	1.21	1.23	0.51	0.69	0.81	1.62	11/16	4	40
PB1/4-U10U	1/4	No.10-32UNF	0.11	0.77	0.91	0.49	0.67	0.80	1.59	7/16	2.4	13
PB1/4-N1U	1/4	1/8-27NPT	0.31	0.89	0.97	0.49	0.67	0.80	1.59	7/16	4.6	15
PB1/4-N2U	1/4	1/4-18NPT	0.43	1.10	1.12	0.49	0.67	0.86	1.71	9/16	5.3	22
PB1/4-N3U	1/4	3/8-18NPT	0.47	1.24	1.25	0.49	0.67	0.94	1.87	11/16	5.3	34
PB5/16-N1U	5/16	1/8-27NPT	0.31	0.94	1.07	0.57	0.71	0.89	1.79	1/2	6	20
PB5/16-N2U	5/16	1/4-18NPT	0.43	1.10	1.16	0.57	0.71	0.93	1.87	9/16	6.7	25
PB5/16-N3U	5/16	3/8-18NPT	0.47	1.22	1.27	0.57	0.71	0.97	1.94	11/16	6.7	37
PB3/8-N1U	3/8	1/8-27NPT	0.31	0.98	1.17	0.69	0.80	1.00	2.01	1/2	6	26
PB3/8-N2U	3/8	1/4-18NPT	0.43	1.12	1.24	0.69	0.80	1.02	2.05	9/16	8	31
PB3/8-N3U	3/8	3/8-18NPT	0.47	1.26	1.37	0.69	0.80	1.06	2.13	11/16	8.2	44
PB3/8-N4U	3/8	1/2-14NPT	0.59	1.42	1.44	0.69	0.80	1.08	2.17	7/8	8.2	68
PB1/2-N2U	1/2	1/4-18NPT	0.43	1.17	1.36	0.83	0.93	1.15	2.30	9/16	8	36
PB1/2-N3U	1/2	3/8-18NPT	0.47	1.28	1.45	0.83	0.93	1.18	2.36	11/16	10	47
PB1/2-N4U	1/2	1/2-14NPT	0.59	1.44	1.53	0.83	0.93	1.22	2.44	7/8	10.9	73

PB Branch Tee

RoHS compliant



Metric thread type



ø16mm type

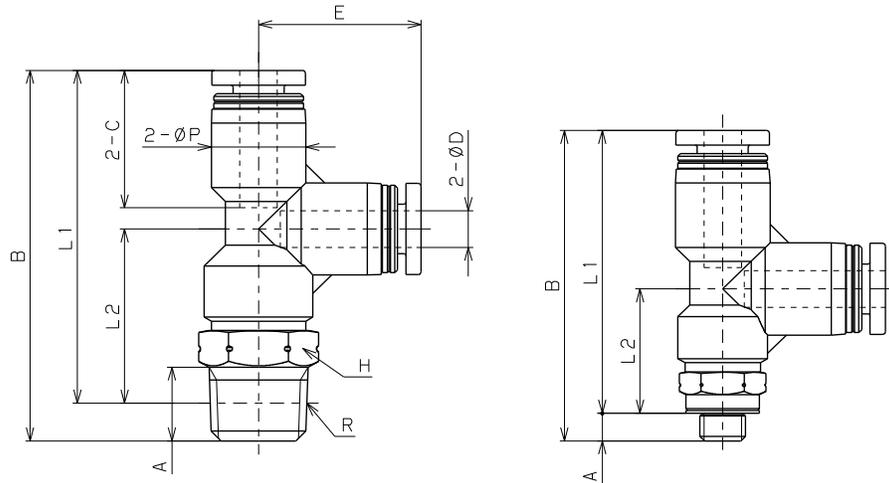
Unit : mm

Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PB4-M5④	4	M5×0.8	2.8 [3]	16	18.2 [18]	10	14.9	17.7	8	2.4	8	PB4-M5_[C]
PB4-M6④		M6×1	3.8	20	21.2			18.7	10	2.8	11	PB4-M6_[C]
PB4-01④		R1/8	8	22	23			2.8	13	PB4-01_		
PB4-02④		R1/4	11	29	28				20	PB4-02_		
PB6-M5④	6	M5×0.8	2.8 [3]	19.5	23 [22.8]	12.5	17	20.25	10	2.4	12	PB6-M5_[C]
PB6-M6④		M6×1	3.8	20.5	23					3	13	PB6-M6_[C]
PB6-01④		R1/8	8	22.5	24.8			4.2	14	14	PB6-01_	
PB6-02④		R1/4	11	28	28.2				21.75	14	22	PB6-02_
PB6-03④	R3/8	12	31.5	31.4	4.3	23.75	17	33	PB6-03_			
PB8-01④	8	R1/8	8	24		27.3	14.5	18.1	22.7	12	6	19
PB8-02④		R1/4	11	28	29.2	23.7			14	25	PB8-02_	
PB8-03④		R3/8	12	31	31.9	24.7			17	35	PB8-03_	
PB10-01④	10	R1/8	8	25	29.8	17.5	20.2	25.5	12	6	25	PB10-01_
PB10-02④		R1/4	11	28.5	31.2			26	14	8	31	PB10-02_
PB10-03④		R3/8	12	32	34.4			8.3	27	17	42	PB10-03_
PB10-04④		R1/2	15	36	36.6				27.5	21	65	PB10-04_
PB12-02④	12	R1/4	11	29.8	34.2	21	23.4	28.95	14	8	38	PB12-02_
PB12-03④		R3/8	12	32.5	36.7			29.7	17	10	48	PB12-03_
PB12-04④		R1/2	15	36.5	38.8			30.7	21	10.3	72	PB12-04_
PB16-03④	16	R3/8	11	47	53.2	25	24.1	33.1	22	11	89	PB16-03_
PB16-04④		R1/2	15	51	55.3					13	93	PB16-04_
PB5/32-01④	5/32	R1/8	8	22	23	10	14.9	18.7	10	2.8	13	PB5_32-01_
PB5/32-02④		R1/4	11	29	28						20.7	14
PB3/16-01④	3/16	R1/8	8	22.5	24.8	12.5	17.4	20.65	10	3.3	15	PB3_16-01_
PB3/16-02④		R1/4	11	28	28.2						22.15	14
PB1/4-01④	1/4	R1/8	8	22.5	24.8	12.5	17	20.25	10	4.6	14	PB1_4-01_
PB1/4-02④		R1/4	11	28	28.2						21.75	14
PB1/4-03④		R3/8	12	31.5	31.4			23.75	17		33	PB1_4-03_
PB5/16-01④	5/16	R1/8	8	24	27.3	14.5	18.1	22.7	12	6	19	PB5_16-01_
PB5/16-02④		R1/4	11	28	29.2						23.7	14
PB5/16-03④		R3/8	12	31	31.9			24.7	17		35	PB5_16-03_
PB3/8-01④	3/8	R1/8	8	25	29.8	17.5	20.2	25.5	12	6	25	PB3_8-01_
PB3/8-02④		R1/4	11	28.5	31.2			26	14	8	31	PB3_8-02_
PB3/8-03④		R3/8	12	32	34.4			8.2	27	17	42	PB3_8-03_
PB3/8-04④		R1/2	15	36	36.6				27.5	21	65	PB3_8-04_
PB1/2-02④	1/2	R1/4	11	29.8	34.2	21	23.7	29.25	14	8	36	PB1_2-02_
PB1/2-03④		R3/8	12	32.5	36.7			30	17	10	46	PB1_2-03_
PB1/2-04④		R1/2	15	36.5	38.8			31	21	10.9	71	PB1_2-04_



Run Tee

RoHS compliant



Unified thread

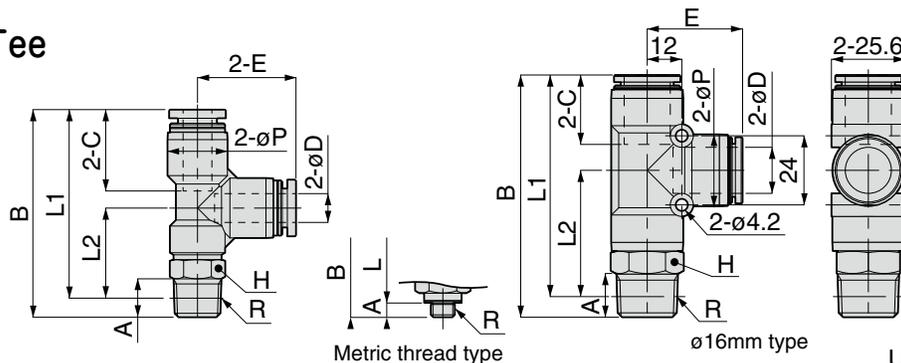
❖ NPT and UNF thread

unit: inch

Model	Tube O.D. φD	R	A	B	L1	L2	φP	C	E	Hex.	Orifice (φ mm)	Weight (g)
PD5/32-U10U	5/32	No.10-32UNF	0.11	1.33	1.22	0.54	0.39	0.59	0.68	5/16	2.4	7.8
PD5/32-N1U	5/32	1/8-27NPT	0.31	1.58	1.42	0.74	0.39	0.59	0.68	7/16	2.8	14
PD5/32-N2U	5/32	1/4-18NPT	0.43	1.82	1.59	0.91	0.39	0.59	0.76	9/16	2.8	20
PD3/16-U10U	3/16	No.10-32UNF	0.11	1.60	1.49	0.67	0.49	0.69	0.82	7/16	2.4	13
PD3/16-N1U	3/16	1/8-27NPT	0.31	1.72	1.56	0.73	0.49	0.69	0.82	7/16	3.3	16
PD3/16-N2U	3/16	1/4-18NPT	0.43	1.94	1.71	0.89	0.49	0.69	0.82	9/16	3.3	22
PD3/16-N3U	3/16	3/8-18NPT	0.47	2.02	1.78	0.97	0.51	0.69	0.81	11/16	4	40
PD1/4-U10U	1/4	No.10-32UNF	0.11	1.59	1.48	0.67	0.49	0.67	0.81	7/16	2.4	13
PD1/4-N1U	1/4	1/8-27NPT	0.31	1.70	1.54	0.73	0.49	0.67	0.81	7/16	4.6	15
PD1/4-N2U	1/4	1/4-18NPT	0.43	1.92	1.69	0.89	0.49	0.67	0.81	9/16	5.3	22
PD1/4-N3U	1/4	3/8-18NPT	0.47	2.05	1.81	1.00	0.49	0.67	0.85	11/16	5.3	34
PD5/16-N1U	5/16	1/8-27NPT	0.31	1.85	1.69	0.78	0.57	0.71	0.90	1/2	6	20
PD5/16-N2U	5/16	1/4-18NPT	0.43	2.04	1.81	0.91	0.57	0.71	0.90	9/16	6.7	25
PD5/16-N3U	5/16	3/8-18NPT	0.47	2.18	1.94	1.04	0.57	0.71	0.90	11/16	6.7	37
PD3/8-N1U	3/8	1/8-27NPT	0.31	2.02	1.85	0.82	0.69	0.80	1.00	1/2	6	26
PD3/8-N2U	3/8	1/4-18NPT	0.43	2.15	1.93	0.89	0.69	0.80	1.03	9/16	8	31
PD3/8-N3U	3/8	3/8-18NPT	0.47	2.29	2.05	1.02	0.69	0.80	1.03	11/16	8.2	43
PD3/8-N4U	3/8	1/2-14NPT	0.59	2.45	2.13	1.10	0.69	0.80	1.07	7/8	8.2	67
PD1/2-N2U	1/2	1/4-18NPT	0.43	2.39	2.16	0.94	0.83	0.93	1.19	9/16	8	37
PD1/2-N3U	1/2	3/8-18NPT	0.47	2.51	2.27	1.06	0.83	0.93	1.21	11/16	10	48
PD1/2-N4U	1/2	1/2-14NPT	0.59	2.67	2.35	1.14	0.83	0.93	1.22	7/8	10.9	73

PD Run Tee

RoHS compliant



Metric thread type

ø16mm type

Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	øP	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PD4-M5④	4	M5×0.8	2.8 [3]	33.7	30.9 [30.7]	13.7 [13.5]	10	14.9	17.2	8	2.4	7.8	PD4-M5_[C]
PD4-M6④		M6×1	3.8	38.2	34.4	17.2				10	2.8	11	PD4-M6_[C]
PD4-01④		R1/8	8	40.2	36.2	19			19.2	14	2.8	13	PD4-01_
PD4-02④		R1/4	11	46.2	40.2	23				20	PD4-02_		
PD6-M5④	6	M5×0.8	2.8 [3]	40.3	37.5 [37.3]	17 [16.8]	12.5	17	20.5	10	2.4	12	PD6-M5_[C]
PD6-M6④		M6×1	3.8	41.3	37.5	17					3		PD6-M6_[C]
PD6-01④		R1/8	8	43.3	39.3	18.8				14	4.3	14	PD6-01_
PD6-02④		R1/4	11	48.8	42.7	22.2					4.3	22	PD6-02_
PD6-03④	R3/8	12	52	45.7	25.2	21.5	17	4.3	32	PD6-03_			
PD8-01④	8	R1/8	8	46.9	42.9	20	14.5	18.1	22.9	12	6	19	PD8-01_
PD8-02④		R1/4	11	51.7	45.7	22.8				14	6.7	25	PD8-02_
PD8-03④		R3/8	12	55.4	49.1	26.2				17	6.7	35	PD8-03_
PD10-01④	10	R1/8	8	51.2	47.2	21	17.5	20.2	25.5	12	6	25	PD10-01_
PD10-02④		R1/4	11	54.7	48.7	22.5				14	8	31	PD10-02_
PD10-03④		R3/8	12	58.2	51.9	25.7			17	8.3	42	PD10-03_	
PD10-04④		R1/2	15	62.2	54	27.8			21	8.3	65	PD10-04_	
PD12-02④	12	R1/4	11	60.3	54.2	23.7	21	23.4	30	14	8	38	PD12-02_
PD12-03④		R3/8	12	63.5	57.2	26.7				17	10	48	PD12-03_
PD12-04④		R1/2	15	67.5	59.3	28.8			21	10.3	72	PD12-04_	
PD16-03④	16	R3/8	11	80.1	73.8	40.7	25	24.1	33.1	22	11	89	PD16-03_
PD16-04④		R1/2	15	84.1	75.9	42.8					13	93	PD16-04_
PD5/32-01④	5/32	R1/8	8	40.2	36.2	19	10	14.9	17.2	10	2.8	13	PD5_32-01_
PD5/32-02④		R1/4	11	46.2	40.2	23						14	20
PD3/16-01④	3/16	R1/8	8	43.7	39.7	18.8	12.5	17.4	20.9	10	3.3	15	PD3_16-01_
PD3/16-02④		R1/4	11	49.2	43.1	22.2						14	22
PD1/4-01④	1/4	R1/8	8	43.3	39.3	18.8	12.5	17	20.5	10	4.6	14	PD1_4-01_
PD1/4-02④		R1/4	11	48.8	42.7	22.2						14	5.3
PD1/4-03④		R3/8	12	52	45.7	25.2			17	5.3	32	PD1_4-03_	
PD5/16-01④	5/16	R1/8	8	46.9	42.9	20	14.5	18.1	22.9	12	6	19	PD5_16-01_
PD5/16-02④		R1/4	11	51.7	45.7	22.8						14	6.7
PD5/16-03④		R3/8	12	55.4	49.1	26.2				17	6.7	35	PD5_16-03_
PD3/8-01④	3/8	R1/8	8	51.2	47.2	21	17.5	20.2	25.5	12	6	25	PD3_8-01_
PD3/8-02④		R1/4	11	54.7	48.7	22.5						14	8
PD3/8-03④		R3/8	12	58.2	51.9	25.7			17	8.2	42	PD3_8-03_	
PD3/8-04④		R1/2	15	62.2	54	27.8			21	8.2	65	PD3_8-04_	
PD1/2-02④	1/2	R1/4	11	60.6	54.5	23.7	21	23.7	30.3	14	8	37	PD1_2-02_
PD1/2-03④		R3/8	12	63.8	57.5	26.7						17	10
PD1/2-04④		R1/2	15	67.8	59.6	28.8			21	10.9	71	PD1_2-04_	

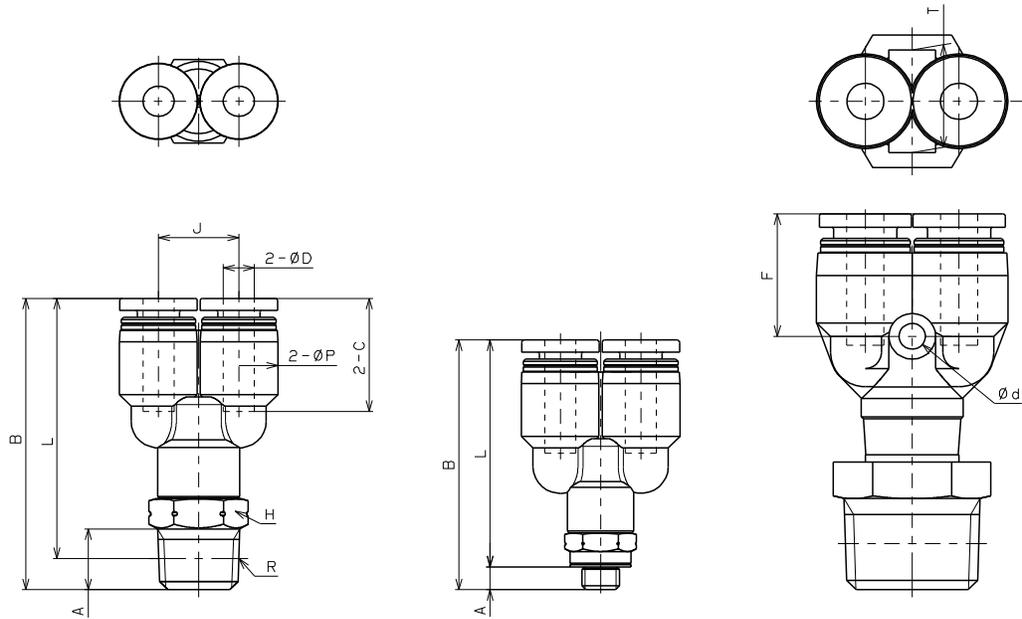
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. "L1" and "L2" are reference values for height dimensions after tightening taper thread.

※ 3. Orifice bore is the smallest passage converted in terms of the diameter.

PX Branch Y

RoHS compliant



PX3/16-N3U

Unified thread

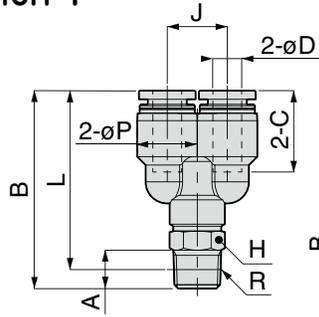
❖ **NPT and UNF thread**

unit: inch

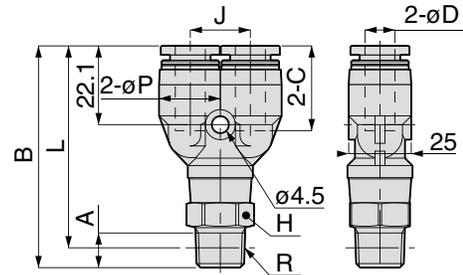
Model	Tube O.D. φD	R	A	B	L	φP	C	J	φd	F	T	Hex.	Orifice (φ mm)	Weight (g)
PX5/32-U10U	5/32	No.10-32UNF	0.11	1.30	1.19	0.39	0.59	0.41	-	-	-	5/16	2.4	8
PX5/32-N1U	5/32	1/8-27NPT	0.31	1.51	1.35	0.39	0.59	0.41	-	-	-	7/16	3.1	14
PX5/32-N2U	5/32	1/4-18NPT	0.43	1.71	1.48	0.39	0.59	0.41	-	-	-	9/16	3.3	20
PX3/16-U10U	3/16	No.10-32UNF	0.11	1.52	1.41	0.49	0.69	0.49	-	-	-	7/16	2.4	14
PX3/16-N1U	3/16	1/8-27NPT	0.31	1.64	1.48	0.49	0.69	0.49	-	-	-	7/16	4.2	16
PX3/16-N2U	3/16	1/4-18NPT	0.43	1.92	1.69	0.49	0.69	0.49	-	-	-	9/16	5.1	23
PX3/16-N3U	3/16	3/8-18NPT	0.47	1.95	1.71	0.49	0.69	0.47	0.13	0.64	0.53	11/16	4.2	40
PX1/4-U10U	1/4	No.10-32UNF	0.11	1.51	1.40	0.49	0.67	0.49	-	-	-	7/16	2.4	13
PX1/4-N1U	1/4	1/8-27NPT	0.31	1.63	1.46	0.49	0.67	0.49	-	-	-	7/16	4.2	16
PX1/4-N2U	1/4	1/4-18NPT	0.43	1.90	1.67	0.49	0.67	0.49	-	-	-	9/16	5.2	22
PX1/4-N3U	1/4	3/8-18NPT	0.47	2.02	1.78	0.49	0.67	0.49	-	-	-	11/16	5.5	35
PX5/16-N1U	5/16	1/8-27NPT	0.31	1.81	1.65	0.57	0.71	0.57	-	-	-	1/2	5.9	21
PX5/16-N2U	5/16	1/4-18NPT	0.43	1.94	1.71	0.57	0.71	0.57	-	-	-	9/16	6.2	26
PX5/16-N3U	5/16	3/8-18NPT	0.47	2.07	1.83	0.57	0.71	0.57	-	-	-	11/16	6.6	38
PX3/8-N1U	3/8	1/8-27NPT	0.31	1.96	1.80	0.69	0.80	0.69	-	-	-	1/2	6	28
PX3/8-N2U	3/8	1/4-18NPT	0.43	2.11	1.88	0.69	0.80	0.69	-	-	-	9/16	7.2	33
PX3/8-N3U	3/8	3/8-18NPT	0.47	2.23	1.99	0.69	0.80	0.69	-	-	-	11/16	7.4	45
PX3/8-N4U	3/8	1/2-14NPT	0.59	2.37	2.05	0.69	0.80	0.69	-	-	-	7/8	7.8	69
PX1/2-N2U	1/2	1/4-18NPT	0.43	2.32	2.09	0.83	0.93	0.83	-	-	-	9/16	7.5	39
PX1/2-N3U	1/2	3/8-18NPT	0.47	2.40	2.16	0.83	0.93	0.83	-	-	-	11/16	8.4	51
PX1/2-N4U	1/2	1/2-14NPT	0.59	2.56	2.24	0.83	0.93	0.83	-	-	-	7/8	8.4	75

PX Branch Y

RoHS compliant



Metric thread type



ø16mm type

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	J	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name	
PX4-M5④	4	M5×0.8	2.8 [3]	32.9	30.1 [29.9]	10	14.9	10.3	8	2.4	8	PX4-M5_[C]	
PX4-M6④		M6×1	3.8	36.4	32.6				10	3	11	PX4-M6_[C]	
PX4-01④		R1/8	8	38.4	34.4				14	3.1	13	PX4-01_	
PX4-02④		R1/4	11	43.4	37.4				14	3.3	20	PX4-02_	
PX6-M5④	6	M5×0.8	2.8 [3]	38.3	35.5 [35.3]	12.5	17	12.5	10	2.4	13	PX6-M5_[C]	
PX6-M6④		M6×1	3.8	39.3	35.5					3		PX6-M6_[C]	
PX6-01④		R1/8	8	41.3	37.3					14	4.2	15	PX6-01_
PX6-02④		R1/4	11	48.3	42.2					17	4.8	22	PX6-02_
PX6-03④	R3/8	12	51.3	44.9	17	4.8	33	PX6-03_					
PX8-01④	8	R1/8	8	46.1	42.1	14.5	18.1	14.5	12	5.9	20	PX8-01_	
PX8-02④		R1/4	11	49.3	43.3				14	6.2	25	PX8-02_	
PX8-03④		R3/8	12	52.5	46.2				17	6.6	36	PX8-03_	
PX10-01④	10	R1/8	8	49.8	45.8	17.5	20.2	17.5	12	6	27	PX10-01_	
PX10-02④		R1/4	11	53.6	47.6				14	7.2	32	PX10-02_	
PX10-03④		R3/8	12	56.7	50.4				17	7.4	43	PX10-03_	
PX10-04④		R1/2	15	60.2	52				21	7.8	66	PX10-04_	
PX12-02④	12	R1/4	11	58.6	52.6	21	23.4	21	14	7.5	40	PX12-02_	
PX12-03④		R3/8	12	60.6	54.3				17	8.4	51	PX12-03_	
PX12-04④		R1/2	15	64.7	56.5				21	8.3	74	PX12-04_	
PX16-03④	16	R3/8	11	76.1	69.8	25	24.1	24	22	11	89	PX16-03_	
PX16-04④		R1/2	15	80.1	71.9					12.7	93	PX16-04_	
PX5/32-01④	5/32	R1/8	8	38.4	34.4	10	14.9	10.3	10	3.1	13	PX5_32-01_	
PX5/32-02④		R1/4	11	43.4	37.4				14	3.3	20	PX5_32-02_	
PX3/16-01④	3/16	R1/8	8	41.7	37.7	12.5	17.4	12.5	10	4.2	15	PX3_16-01_	
PX3/16-02④		R1/4	11	48.7	42.6				14	5.1	23	PX3_16-02_	
PX1/4-01④	1/4	R1/8	8	41.3	37.3	12.5	17	12.5	10	4.2	15	PX1_4-01_	
PX1/4-02④		R1/4	11	48.3	42.2				14	5.2	22	PX1_4-02_	
PX1/4-03④		R3/8	12	51.3	44.9				17	5.5	33	PX1_4-03_	
PX5/16-01④	5/16	R1/8	8	46.1	42.1	14.5	18.1	14.5	12	5.9	20	PX5_16-01_	
PX5/16-02④		R1/4	11	49.3	43.3				14	6.2	25	PX5_16-02_	
PX5/16-03④		R3/8	12	52.5	46.2				17	6.6	36	PX5_16-03_	
PX3/8-01④	3/8	R1/8	8	49.8	45.8	17.5	20.2	17.5	12	6	27	PX3_8-01_	
PX3/8-02④		R1/4	11	53.6	47.6				14	7.2	33	PX3_8-02_	
PX3/8-03④		R3/8	12	56.7	50.4				17	7.4	44	PX3_8-03_	
PX3/8-04④		R1/2	15	60.2	52				21	7.8	67	PX3_8-04_	
PX1/2-02④	1/2	R1/4	11	58.9	52.9	21	23.7	21	14	7.5	39	PX1_2-02_	
PX1/2-03④		R3/8	12	60.9	54.6				17	8.4	51	PX1_2-03_	
PX1/2-04④		R1/2	15	65	56.8				21	8.4	74	PX1_2-04_	

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

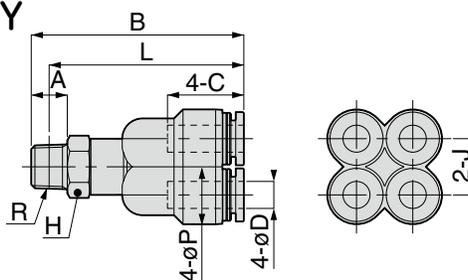
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 3. Dimensions in [] are for clean-room and clean-wash package products.

※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

PRX Double Branch Y

RoHS compliant



❖ NPT thread

unit: inch

Model	Tube O.D. φD	R	A	B	L	φP	C	J	Hex.	Orifice φ	Weight (g)
PRX5/32-N1U	5/32	1/8-27NPT	0.31	1.53	1.37	0.41	0.59	0.41	1/2	2.6	20
PRX5/32-N2U	5/32	1/4-18NPT	0.43	1.67	1.44	0.41	0.59	0.41	9/16	2.6	25
PRX3/16-N1U	3/16	1/8-27NPT	0.31	1.87	1.71	0.51	0.69	0.49	1/2	5.2	27
PRX1/4-N1U	1/4	1/8-27NPT	0.31	1.86	1.70	0.51	0.67	0.49	1/2	5.2	25

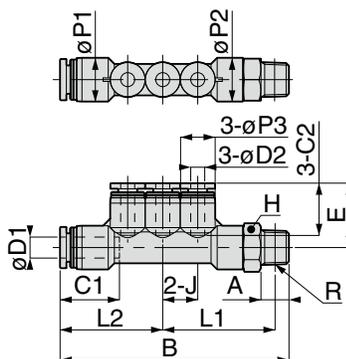
Ask us for PRX1/4-N2U

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	J	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PRX4-01 ④	4	R1/8	8	38.9	34.9	10.5	14.9	10.3	12	2.6	16	PRX4-01_
PRX4-02 ④		R1/4	11	42.4	36.4				14		21	PRX4-02_
PRX6-01 ④	6	R1/8	8	47.2	43.2	13	17	12.5	12	5.2	25	PRX6-01_

PKD Triple Run Tee

RoHS compliant



❖ NPT thread

unit: inch

Model	Tube O.D. φD1	Tube O.D. φD2	R	A	B	E	L1	L2	J	φP1	φP2	φP3	C1	C2	Hex.	Orifice φ (mm)	Weight (g)
PKD3/16-5/32-N1U	3/16	5/32	1/8NPT	0.31	2.59	0.72	1.26	1.17	0.39	0.49	0.49	0.39	0.69	0.59	1/2	3.0	20
PKD5/16-5/32-N2U	5/16	5/32	1/4NPT	0.43	2.72	0.76	1.27	1.23	0.39	0.57	0.57	0.39	0.71	0.59	9/16	3.0	28
PKD5/16-3/16-N2U	5/16	3/16	1/4NPT	0.43	3.03	0.85	1.44	1.35	0.49	0.57	0.57	0.49	0.71	0.69	9/16	3.9	32
PKD5/16-1/4-N2U	5/16	1/4	1/4NPT	0.43	3.03	0.84	1.44	1.35	0.49	0.57	0.57	0.49	0.71	0.67	9/16	5.3	31
PKD3/8-5/16-N3U	3/8	5/16	3/8NPT	0.47	3.46	0.93	1.64	1.57	0.57	0.69	0.71	0.57	0.80	0.71	11/16	6.7	52

Unit : mm

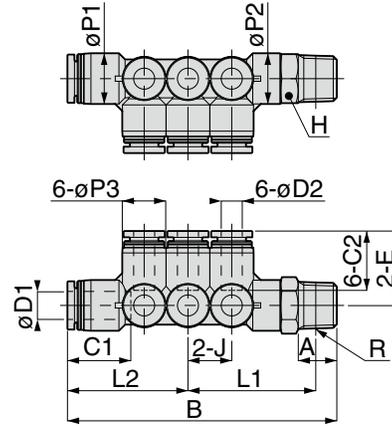
Model code	Tube O.D. øD1	Tube O.D. øD2	R	A	B	E	L1	L2	J	øP1	øP2	øP3	Tube end C1	Tube end C2	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PKD6-4-01 ④	6	4	R1/8	8	65.4	18.4	32.1	29.3	10	12.5	12.5	10	17	14.9	12	3	21	PKD6-4-01_
PKD8-4-02 ④	8	4	R1/4	11	69.2	19.2	32	31.2	10	14.5	14.5	10	18.1	14.9	14	3	28	PKD8-4-02_
PKD8-6-02 ④					76.9	21.3	36.5	34.4	12.5					12.5				17
PKD10-8-03 ④	10	8	R3/8	12	87.8	23.7	41.5	40	14.5	17.5	18	14.5	20.2	18.1	17	6.7	50	PKD10-8-03_

Common caution in this page

- ※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package
- ※ 2. "L" and "L1" are reference values for height dimensions after tightening thread.
- ※ 3. Orifice bore is the smallest passage converted in terms of the diameter.

PKVD Twin Triple Run Tee

RoHS compliant



Unit : mm

Model code	Tube O.D. $\phi D1$	Tube O.D. $\phi D2$	R	A	B	E	L1	L2	J	$\phi P1$	$\phi P2$	$\phi P3$	Tube end C1	Tube end C2	Hex. H	Orifice bore (ϕ mm)	Weight (g)	CAD file name	
PKVD8-4-02④	8	4	R1/4	11	69.2	19.2	32	31.2	10	14.5	14.5	10	18.1	14.9	14	3	32	PKVD8-4-02_	
PKVD8-4-03④			R3/8	12	72.2		34.7				18				17		46	PKVD8-4-03_	
PKVD8-6-02④		6	R1/4	11	76.9	21.3	36.5	34.4	12.5		14.5	12.5		17	17	14	4.6	41	PKVD8-6-02_
PKVD8-6-03④			R3/8	12	80.7		39.9				18					17		52	PKVD8-6-03_
PKVD10-6-03④	10	6	R3/8	12	81.5	22.3	38.2	37	12.5	17.5	18	20.2	17		17	4.6	56	PKVD10-6-03_	
PKVD10-6-04④			R1/2	15	85.5		40.3				20				21		78	PKVD10-6-04_	
PKVD10-8-03④		8	R3/8	12	87.8	23.7	41.5	40	14.5		18		14.5	18.1	17	6.7	65	PKVD10-8-03_	
PKVD10-8-04④			R1/2	15	91.8		43.6				20						21	87	PKVD10-8-04_

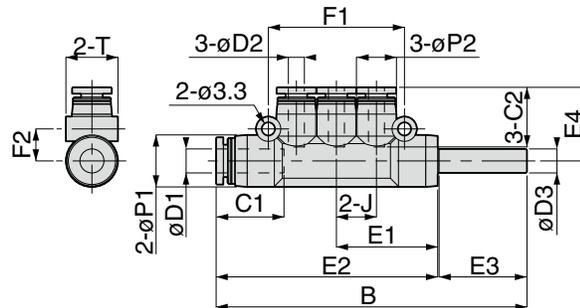
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

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

※ 3. Orifice bore is the smallest passage converted in terms of the diameter.

PKJ Plug-in Triple Tee

RoHS compliant



Unit : mm

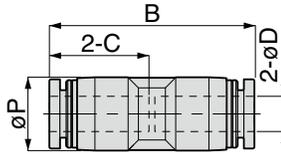
Model code	Tube O.D. $\phi D1$	Tube O.D. $\phi D2$	Tube dia. $\phi D3$	B	J	E1	E2	E3	E4	$\phi P1$	$\phi P2$	Tube end C1	Tube end C2	F1	F2	T	Orifice bore (ϕ mm)	Weight (g)	CAD file name
PKJ6-4④	6	4	6	77.7	10	25.3	55.4	22	18.4	13	10	17	14.9	34	8	13	3	15	PKJ6-4
PKJ8-4④	8	4	8	81.2	10	26.5	57.7	23.2	19.2	15	10	18.1	14.9	34	9.2	15	3	18	PKJ8-4
PKJ8-6④		6		88.2	12	30	64.7		21.3		13			17	40.2				9
PKJ10-8④	10	8	10	100	14	35	75	25	23.7	17.5	15	20.7	18.1	46.2	10.5	17.5	7	31	PKJ10-8

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PU Union Straight

RoHS compliant

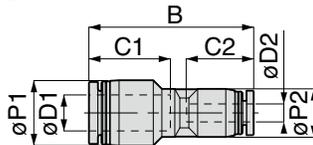


Unit : mm

Model code	Tube O.D. øD	B	øP	Tube end C	Orifice bore (ømm)	Weight (g)	CAD file name
PU4④	4	30.8	10	14.9	2.8	4.7	PU4
PU6④	6	34.9	12.5	17	4.3	6.5	PU6
PU8④	8	37.8	14.5	18.1	7	9.4	PU8
PU10④	10	41.4	17.5	20.2	9	16	PU10
PU12④	12	47.8	21	23.4	11	22	PU12
PU16④	16	49.4	25	24.1	13	26	PU16
PU5/32④	5/32	30.8	10	14.9	2.8	4.7	PU5_32
PU3/16④	3/16	35.7	12.5	17.4	3.3	6.7	PU3_16
PU1/4④	1/4	34.9	12.5	17	5	6.4	PU1_4
PU5/16④	5/16	37.8	14.5	18.1	7	9.4	PU5_16
PU3/8④	3/8	41.4	17.5	20.2	9	16	PU3_8
PU1/2④	1/2	48.4	21	23.7	11	21	PU1_2
PU5/8④	5/8	49.4	25	24.1	13	26	PU5_8

PG Unequal Union Straight

RoHS compliant



Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	B	øP1	øP2	Tube end C1	Tube end C2	Orifice bore (ømm)	Weight (g)	CAD file name				
PG6-4④	6	4	34.4	12.5	12.5	17	14.9	2.8	6.4	PG6-4				
PG8-4④	8	4	36.6	14.5	10.7	18.1	14.9	2.8	7.2	PG8-4				
PG8-6④		6	37.9		14.5		17	4.3	8.8	PG8-6				
PG10-6④	10	6	39.8	17.5	13	20.2	17	4.3	12	PG10-6				
PG10-8④		8	41.1		17.5		18.1	6.5	14	PG10-8				
PG12-8④	12	8	44	21	14.5	23.4	18.1	6.2	16	PG12-8				
PG12-10④		10	47.6		21		23.4	20.2	9	21	PG12-10			
PG12-3/8④		3/8	47.6		21		21	20.2	9	21	PG12-3_8			
PG16-10④	16	10	52.1	25	25	24.1	20.7	8.4	35	PG16-10				
PG16-12④		12	49.5		25		25	24.1	23.4	10	27	PG16-12		
PG3/16-5/32④	3/16	5/32	34.8	12.5	12.5	17.4	14.9	2.8	6.4	PG3_16-5_32				
PG1/4-5/32④	1/4	5/32	34.4	12.5	12.5	17	14.9	2.8	6.3	PG1_4-5_32				
PG1/4-4④		4								17	14.9	2.8	6.3	PG1_4-4
PG1/4-3/16④		3/16								35.3	17.4	3.3	6.5	PG1_4-3_16
PG5/16-3/16④	5/16	3/16	38.3	14.5	14.5	18.1	17.4	3.3	8.8	PG5_16-3_16				
PG5/16-1/4④		1/4	37.9				17	5	8.7	PG5_16-1_4				
PG3/8-1/4④	3/8	1/4	39.8	17.5	13	20.2	17	4.3	12	PG3_8-1_4				
PG3/8-5/16④		5/16	41.1		17.5		18.1	6.5	15	PG3_8-5_16				
PG1/2-1/4④	1/2	1/4	44.4	21	14.5	23.7	17	4.3	15	PG1_2-1_4				
PG1/2-5/16④		5/16	44.3				18.1	6.2	16	PG1_2-5_16				
PG1/2-3/8④		3/8	47.9				21	21	20.2	9	21	PG1_2-3_8		
PG5/8-1/2④	5/8	1/2	49.8	25	25	24.1	23.7	10.7	26	PG5_8-1_2				

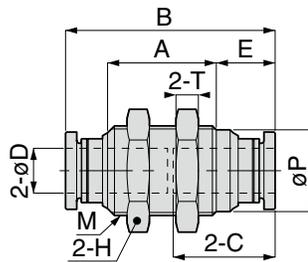
Common caution in this page

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PM Bulkhead Union

RoHS compliant



❖ Inch bulkhead

unit: inch

Model	Tube O.D. φD	M	B	E	A	φP	C	Hex.	T	Orifice (φ mm)	Weight (g)
PM5/32U	5/32	1/2-20UNF	1.21	0.37	0.58	0.44	0.59	9/16	0.20	3	12
PM3/16U	3/16	9/16-18UNF	1.41	0.39	0.75	0.49	0.69	11/16	0.22	4	21
PM1/4U	1/4	9/16-18UNF	1.37	0.37	0.75	0.49	0.67	11/16	0.22	5.3	20
PM5/16U	5/16	5/8-18UNF	1.47	0.41	0.76	0.56	0.72	3/4	0.22	7	23
PM3/8U	3/8	7/8-14UNF	1.67	0.47	0.85	0.80	0.81	1	0.28	8.5	48
PM1/2U	1/2	7/8-14UNF	1.86	0.51	0.95	0.80	0.91	1	0.28	11.7	49

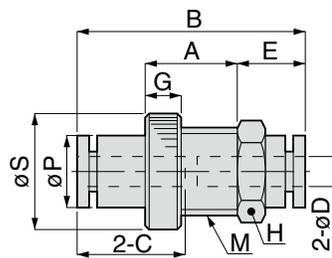
Unit : mm

Model code	Tube O.D. øD	M	B	E	A	øP	Tube end C	Hex. H	T	Orifice bore (ømm)	Weight (g)	CAD file name
PM4④	4	M12×1	30.8	9.5	14.8	10.8	14.9	14	4	3	11	PM4_
PM6④	6	M14×1	34.9	9.5	19	12.5	17	17	4	5	16	PM6_
PM8④	8	M16×1	37.4	10.5	19.4	14.6	18.2	19	4	7	19	PM8_
PM10④	10	M20×1	42.4	11.9	21.6	18.5	20.7	24	5	9	35	PM10_
PM12④	12	M22×1	47.6	13.2	24.2	20.4	23.3	27	6	11	52	PM12_
PM16④	16	M28×1.5	50.6	13.2	27.2	25.5	24.8	32	6	15	73	PM16_
PM5/32④	5/32	M12×1	30.8	9.5	14.8	10.8	14.9	14	4	3	10	PM5_32_
PM3/16④	3/16	M14×1	35.7	9.9	19	12.5	17.4	17	4	4	16	PM3_16_
PM1/4④	1/4	M14×1	34.9	9.5	19	12.5	17	17	4	5.3	16	PM1_4_
PM5/16④	5/16	M16×1	37.4	10.5	19.4	14.6	18.2	19	4	7	19	PM5_16_
PM3/8④	3/8	M20×1	42.4	11.9	21.6	18.5	20.7	24	5	8.5	36	PM3_8_
PM1/2④	1/2	M22×1	47.2	13	24.2	20.4	23.1	27	6	11.7	51	PM1_2_

Ask us for PM5/8

PMP Bulkhead Union P

RoHS compliant



Unit : mm

Model code	Tube O.D. øD	M	B	E	A	øP	øS	Tube end C	Hex. H	G	Orifice bore (ømm)	Weight (g)	CAD file name
PMP4④	4	M12×1.5	31.4	9.2	12	10	16	14.9	14	5	3	6.8	PMP4
PMP6④	6	M14×1.5	35.5	9.8	15	12.3	19	17	17	5	4.9	9.6	PMP6
PMP8④	8	M16×1.5	38.4	10.7	15.5	14.2	22	18.1	19	6	7	14	PMP8
PMP10④	10	M20×2	43	13	18.5	17.5	27.5	20.7	24	6	8	23	PMP10
PMP12④	12	M24×2	48.4	13.2	20.5	21	31	23.4	27	6	11	32	PMP12
PMP5/32④	5/32	M12×1.5	31.4	9.2	12	10	16	14.9	14	5	3	6.8	PMP5_32
PMP1/4④	1/4	M14×1.5	35.5	9.8	15	12.3	19	17	17	5	5	9.5	PMP1_4
PMP5/16④	5/16	M16×1.5	38.4	10.7	15.5	14.2	22	18.1	19	6	7	14	PMP5_16
PMP3/8④	3/8	M20×2	43	13	18.5	17.5	27.5	20.7	24	6	8	24	PMP3_8
PMP1/2	1/2	Ask us for the dimensions											

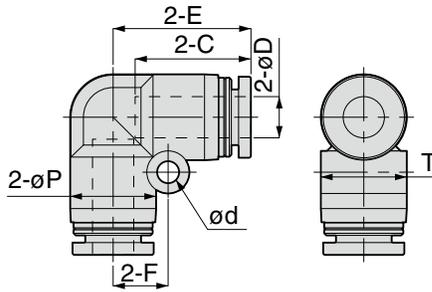
Common caution in this page

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PV Union Elbow

RoHS compliant



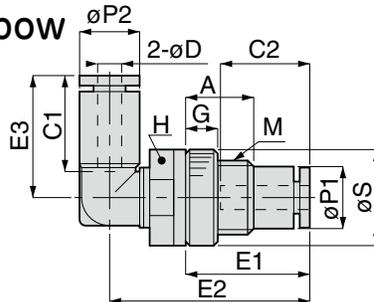
Unit : mm

Model code	Tube O.D. øD	øP	Tube end C	E	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
PV4④	4	10	14.9	16.9	3.2	6.5	10.4	2.8	5.1	PV4
PV6④	6	12.5	17	20.1	3.2	8	13.5	5	7.3	PV6
PV8④	8	15	18.1	22.4	4.2	10	15.6	7.2	11	PV8
PV10④	10	17.5	20.2	26.2	4.2	12	18.2	8.3	17	PV10
PV12④	12	21	23.4	29.4	4.2	14	21.7	10	25	PV12
PV16④	16	25	24.1	33.1	4.2	12	25.6	13	31	PV16
PV5/32④	5/32	10	14.9	16.9	3.2	6.5	10.4	2.8	5.1	PV5_32
PV3/16④	3/16	12.5	17.4	20.5	3.2	8	13.5	4	7.5	PV3_16
PV1/4④	1/4	12.5	17	20.1	3.2	8	13.5	5	7.1	PV1_4
PV5/16④	5/16	15	18.1	22.4	4.2	10	15.6	7.2	11	PV5_16
PV3/8④	3/8	17.5	20.2	26.2	4.2	12	18.2	8.5	18	PV3_8
PV1/2④	1/2	21	23.7	29.7	4.2	14	21.7	10.7	23	PV1_2

Ask us for PV5/8

PML Bulkhead Union Elbow

RoHS compliant



Unit : mm

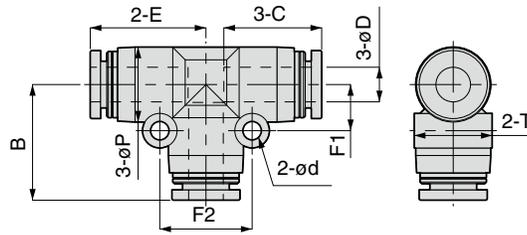
Model code	Tube O.D. øD	M	E1	E2	E3	A	øP1	øP2	øS	Tube end C1	Tube end C2	Hex. H	G	Orifice bore (ømm)	Weight (g)	CAD file name
PML4④	4	M12x1.5	20.2	32.8	19.7	10	10	10	16	14.9	14.9	14	5	2.9	11	PML4
PML6④	6	M14x1.5	23.8	37.8	22.8	13	12.3	12.5	19	17	17	17	5	4.6	17	PML6
PML8④	8	M16x1.5	25.7	41.8	25.7	13.5	14.2	14.5	22	18.1	18.1	19	6	5.9	25	PML8
PML10④	10	M20x2	28	47.8	29.5	16.5	17.5	17.5	27.5	20.2	20.7	24	6	7.1	42	PML10
PML12④	12	M24x2	33.2	54.7	32.6	18.5	21	21	31	23.4	23.4	27	6	9.5	59	PML12
PML5/32④	5/32	M12x1.5	20.2	32.8	19.7	10	10	10	16	14.9	14.9	14	5	2.9	11	PML5_32
PML1/4④	1/4	M14x1.5	23.8	37.8	22.8	13	12.3	12.5	19	17	17	17	5	4.4	17	PML1_4
PML5/16④	5/16	M16x1.5	25.7	41.8	25.7	13.5	14.2	14.5	22	18.1	18.1	19	6	5.9	25	PML5_16
PML3/8④	3/8	M20x2	28	47.8	29.5	16.5	17.5	17.5	27.5	20.2	20.7	24	6	6.9	42	PML3_8
PML1/2	1/2	Ask us for the dimensions														

Common caution in this page

- ※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package
- ※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PE Union Tee

RoHS compliant



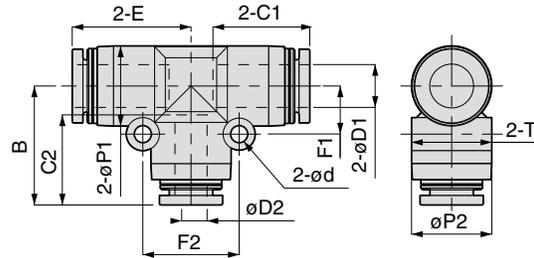
Unit : mm

Model code	Tube O.D. øD	øP	Tube end C	E	ød	T	F1	F2	B	Orifice bore (ømm)	Weight (g)	CAD file name
PE4 ④	4	10	14.9	17.2	3.2	10.4	6.5	13	17.2	2.8	7.5	PE4
PE6 ④	6	13	17	20.05	3.2	13.5	8	16	20.1	4.8	11	PE6
PE8 ④	8	15	18.1	22.2	3.2	15.6	9	18	22.2	6.2	16	PE8
PE10 ④	10	17.5	20.2	25.2	4.2	18.2	12	24	25.2	8.1	25	PE10
PE12 ④	12	21	22.9	28.4	4.2	21.7	14	28	28.2	10	36	PE12
PE16 ④	16	25	24.1	33.1	4.2	25.6	12	24	33.1	13	44	PE16
PE5/32 ④	5/32	10	14.9	17.2	3.2	10.4	6.5	13	17.2	2.8	7.5	PE5_32
PE3/16 ④	3/16	13	17.4	20.45	3.2	13.5	8	16	20.5	3.8	12	PE3_16
PE1/4 ④	1/4	13	17	20.05	3.2	13.5	8	16	20.1	4.8	11	PE1_4
PE5/16 ④	5/16	15	18.1	22.2	3.2	15.6	9	18	22.2	6.2	16	PE5_16
PE3/8 ④	3/8	17.5	20.2	25.2	4.2	18.2	12	24	25.2	8.1	25	PE3_8
PE1/2 ④	1/2	21	23.2	28.7	4.2	21.7	14	28	28.5	10.7	34	PE1_2

PE5/8 - ask us for the details

PEG Unequal Union Tee

RoHS compliant

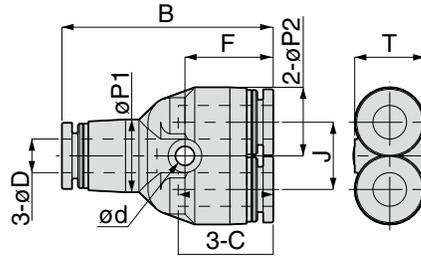


Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	øP1	øP2	Tube end C1	Tube end C2	E	ød	F1	F2	B	T	Orifice bore (ømm)	Weight (g)	CAD file name
PEG4-6 ④	4	6	13	13	14.9	17	19.5	3.2	8	16	20.1	13.5	2.8	11	PEG4-6
PEG6-4 ④	6	4	13	13	17	14.9	20.05	3.2	8	16	19.5	13.5	2.8	11	PEG6-4
PEG6-8 ④		8	15	15		18.1	22.25								
PEG8-4 ④	8	4	14.5	12.5	18.1	14.9	22.2	3.2	9	18	21.7	15.1	2.8	14	PEG8-4
PEG8-6 ④		6				17					22.3				
PEG8-10 ④		10	17.5	17.5		20.2	24.9				4.2	12	24	25.2	18.2
PEG10-6 ④	10	6	17.5	14.5	20.2	17	25.2	4.2	12	24	25	18.2	4.3	22	PEG10-6
PEG10-8 ④		8				18.1					24.9				
PEG10-12 ④		12	21	21		22.9	28.2				14	28	28.2	21.7	8.3
PEG12-8 ④	12	8	21	17.5	23.4	18.1	28.4	4.2	14	28	27.7	21.7	6.2	32	PEG12-8
PEG12-10 ④		10				20.2					28				
PEG12-16 ④		16	25	25		24.1	33.2				12	24	33.1	25.6	9.9
PEG16-10 ④	16	10	25	25	24.1	20.7	33.1	4.2	12	24	35.8	25.6	8.5	53	PEG16-10
PEG16-12 ④		12				22.9					33.2				
PEG5/32-3/16 ④	5/32	3/16	13	13	14.9	17.4	19.5	3.2	8	16	20.5	13.5	2.8	11	PEG5_32-3_16
PEG5/32-1/4 ④		1/4				17					20.1				
PEG3/16-5/32 ④	3/16	5/32	13	13	17.4	14.9	20.45	3.2	8	16	19.5	13.5	2.8	11	PEG3_16-5_32
PEG3/16-1/4 ④		1/4				17					20.1				
PEG1/4-5/32 ④	1/4	5/32	13	13	17	14.9	20.05	3.2	8	16	19.5	13.5	2.8	11	PEG1_4-5_32
PEG1/4-3/16 ④		3/16				17.4					20.5				
PEG1/4-5/16 ④		5/16	15	15		18.1	22.25				9	18	22.2	15.6	4.3
PEG5/16-5/32 ④	5/16	5/32	14.5	12.5	18.1	14.9	22.2	3.2	9	18	21.7	15.1	2.8	16	PEG5_16-5_32
PEG5/16-3/16 ④		3/16				17.4					22.2				
PEG5/16-1/4 ④		1/4	17	22.3		14	14				PEG5_16-1_4				
PEG5/16-3/8 ④		3/8	17.5	17.5		20.2	24.9				4.2	12	24	25.2	18.2
PEG3/8-1/4 ④	3/8	1/4	17.5	14.5	20.2	17	25.2	4.2	12	24	25	18.2	5	22	PEG3_8-1_4
PEG3/8-5/16 ④		5/16				18.1					24.9				
PEG3/8-1/2 ④		1/2	21	21		23.2	28.2				14	28	28.5	21.7	7.5
PEG1/2-5/16 ④	1/2	5/16	21	17.5	23.7	18.1	28.7	4.2	14	28	27.7	21.7	6.2	30	PEG1_2-5_16
PEG1/2-3/8 ④		3/8				20.2					28				

PY Union Y

RoHS compliant



Unit : mm

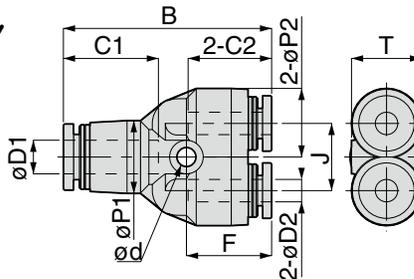
Model code	Tube O.D. øD	B	øP1	øP2	Tube end C	J	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
PY4④	4	32.8	10	10	14.9	11	3.2	14.1	10.4	2.6	7.6	PY4
PY6④	6	37.7	13	12.5	17	12	3.4	15.8	13.5	4.3	11	PY6
PY8④	8	42.4	15	14.5	18.1	14	3.4	17.2	15.1	5.7	16	PY8
PY10④	10	48.4	17.5	17.5	20.7	18	4.2	19.5	18.2	6.7	26	PY10
PY12④	12	54.8	21	21	23.4	20	4.2	22.2	21.7	8	37	PY12
PY16④	16	62.2	25	25	24.1	24	4.5	22.1	25	12.7	45	PY16
PY5/32④	5/32	32.8	10	10	14.9	11	3.2	14.1	10.4	2.6	7.6	PY5_32
PY3/16④	3/16	38.5	13	12.5	17.4	12	3.4	16.2	13.5	3.8	11	PY3_16
PY1/4④	1/4	37.7	13	12.5	17	12	3.4	15.8	13.5	4.7	11	PY1_4
PY5/16④	5/16	42.4	15	14.5	18.1	14	3.4	17.2	15.1	5.7	16	PY5_16
PY3/8④	3/8	48.4	17.5	17.5	20.7	18	4.2	19.5	18.2	6.8	26	PY3_8
PY1/2④	1/2	55.4	21	21	23.7	20	4.2	22.5	21.7	7.9	35	PY1_2

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PW Unequal Union Y

RoHS compliant



Unit : mm

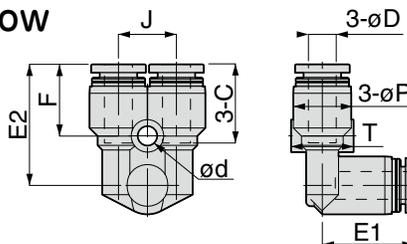
Model code	Tube O.D. øD1	Tube O.D. øD2	B	øP1	øP2	Tube end C1	Tube end C2	J	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name			
PW6-4④	6	4	37.2	13	12.5	17	14.9	12	3.4	15.2	13.5	3.7	11	PW6-4			
PW8-4④	8	4	41.9	14.5	12.5	18.1	14.9	14	3.4	16.7	15.1	3.9	13	PW8-4			
PW8-6④		6	42.5				17			17.3					5	PW8-6	
PW10-6④	10	6	48.2	17.5	14.5	20.2	17	18	4.5	19.3	18.2	5.7	19	PW10-6			
PW10-8④		8	48.1				18.1			19.2					6.5	20	PW10-8
PW12-8④	12	8	54.3	21	17.5	23.4	18.1	20	4.5	21.7	21.7	7.5	27	PW12-8			
PW12-10④		10	54.6				20.2			22					7.8	30	PW12-10
PW16-12④	16	12	62.3	25	25	24.1	23.4	24	4.5	22.2	25	9	48	PW16-12			
PW3/16-5/32④	3/16	5/32	37.6	13	12.5	17.4	14.9	12	3.4	15.2	13.5	3.7	11	PW3_16-5_32			
PW1/4-4④	1/4	4	37.2	13	12.5	17	14.9	12	3.4	15.2	13.5	3.7	11	PW1_4-4			
PW1/4-5/32④		5/32	37.2											17	17.4	4	PW1_4-5_32
PW1/4-3/16④		3/16	38.1											17.4	16.2	4	PW1_4-3_16
PW5/16-5/32④	5/16	5/32	41.9	14.5	12.5	18.1	14.9	14	3.4	16.7	15.1	3.9	13	PW5_16-5_32			
PW5/16-1/4④		1/4	42.5							17				17.3	5	PW5_16-1_4	
PW3/8-1/4④	3/8	1/4	48.2	17.5	14.5	20.2	17	18	4.5	19.3	18.2	5.7	19	PW3_8-1_4			
PW3/8-5/16④		5/16	48.1				18.1			19.2				6.5	20	PW3_8-5_16	
PW1/2-5/16④	1/2	5/16	54.6	21	17.5	23.7	18.1	20	4.5	21.7	21.7	7.5	27	PW1_2-5_16			
PW1/2-3/8④		3/8	54.9				20.2			22				7.8	30	PW1_2-3_8	

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PAU Branch Union Elbow

RoHS compliant

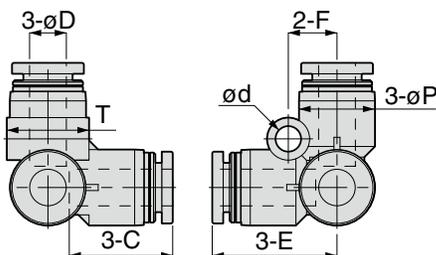


Unit : mm

Model code	Tube O.D. øD	E1	øP	Tube end C	J	E2	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
PAU4④	4	16.9	10	14.9	10.3	22.7	3.2	14.2	10.4	3.5	7.7	PAU4_
PAU6④	6	19.8	12.5	17	12.5	26.2	4.2	15.5	13.5	4.5	11	PAU6_
PAU8④	8	22.7	14.5	18.1	14.5	29.4	4.2	16.9	15.6	6.4	16	PAU8_
PAU10④	10	25	17.5	20.2	17.5	33.5	4.2	18.5	18.2	8.5	27	PAU10
PAU12④	12	29.4	21	23.4	21	35.2	4.2	20.4	21.7	10.4	39	PAU12_
PAU5/32④	5/32	16.9	10	14.9	10.3	22.7	3.2	14.2	10.4	3.5	7.7	PAU5_32_
PAU3/16④	3/16	20.2	12.5	17.4	12.5	26.6	4.2	15.9	13.5	4.4	12	PAU3_16_
PAU1/4④	1/4	19.8	12.5	17	12.5	26.2	4.2	15.5	13.5	4.8	11	PAU1_4_
PAU5/16④	5/16	22.7	14.5	18.1	14.5	29.4	4.2	16.9	15.6	6.4	16	PAU5_16_
PAU3/8④	3/8	25	17.5	20.2	17.5	33.5	4.2	18.5	18.2	8.5	27	PAU3_8_
PAU1/2④	1/2	29.7	21	23.7	21	35.5	4.2	20.7	21.7	10.4	38	PAU1_2_

PVU Tripod Union

RoHS compliant



Unit : mm

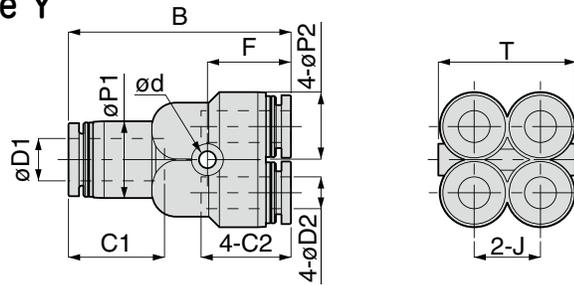
Model code	Tube O.D. øD	øP	Tube end C	E	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD ファイル名
PVU4④	4	10	14.9	17.8	3.2	6.5	10.4	3	7.2	PVU4_
PVU6④	6	12.5	17	20.5	4.2	8	13.5	4.6	10	PVU6_
PVU8④	8	14.5	18.1	22.7	4.2	10	15.6	6.7	15	PVU8_
PVU10④	10	17.5	20.2	26.2	4.2	12	18.2	8.3	25	PVU10_
PVU12④	12	21	23.4	30.2	4.2	14	21.7	10.3	35	PVU12_
PVU5/32④	5/32	10	14.9	17.8	3.2	6.5	10.4	3	7.2	PVU5_32_
PVU3/16④	3/16	12.5	17.4	20.9	4.2	8	13.5	4	10	PVU3_16_
PVU1/4④	1/4	12.5	17	20.5	4.2	8	13.5	5.3	11	PVU1_4_
PVU5/16④	5/16	14.5	18.1	22.7	4.2	10	15.6	6.7	15	PVU5_16_
PVU3/8④	3/8	17.5	20.2	26.2	4.2	12	18.2	8.2	25	PVU3_8_
PVU1/2④	1/2	21	23.7	30.5	4.2	14	21.7	11	34	PVU1_2_

Common caution in this page

- ※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package
- ※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PRG Unequal Double Y

RoHS compliant



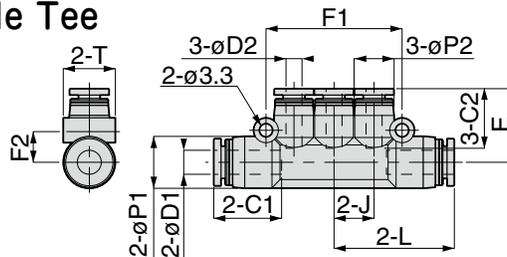
Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	B	øP1	øP2	Tube end C1	Tube end C2	J	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
PRG6-4④	6	4	37.5	12.5	10.5	17	14.9	10.3	3.2	14.2	21.3	3.2	14	PRG6-4_
PRG8-6④	8	6	42	14.5	13	18.1	17	12.5	3.2	15.8	26	4.6	21	PRG8-6_
PRG3/16-5/32④	3/16	5/32	37.9	12.5	10.5	17.4	14.9	10.3	3.2	14.2	21.3	3	15	PRG3_16-5_32_
PRG1/4-5/32④	1/4	5/32	37.5	12.5	10.5	17	14.9	10.3	3.2	14.2	21.3	3.2	14	PRG1_4-5_32_
PRG5/16-1/4④	5/16	1/4	42	14.5	13	18.1	17	12.5	3.2	15.8	26	4.7	20	PRG5_16-1_4_

Ask us for **PRG1/4-1/4**

PKG Unequal Triple Tee

RoHS compliant



Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	L	E	J	øP1	øP2	Tube end C1	Tube end C2	F1	F2	T	Orifice bore (ømm)	Weight (g)	CAD file name	
PKG6-4④	6	4	30.05	18.4	10	13	10	17	14.9	34	8	13	3	16	PKG6-4	
PKG8-4④	8	4	31.2	19.2	10	15	10	18.1	14.9	34	9.2	15	3	20	PKG8-4	
PKG8-6④		6	34.7	21.3	12		13		17	40.2	9		4.6	23	PKG8-6	
PKG10-6④	10	6	40	23.8	14	17.5	15	20.7	17	46.2	10.5	17.5	4.6	31	PKG10-6	
PKG10-8④		8		23.7					12					13	18.1	9
PKG3/16-5/32④	3/16	5/32	30.45	18.4	10	13	10	17.4	14.9	34	8	13	3	16	PKG3_16-5_32_	
PKG5/16-5/32④	5/16	5/32	31.2	19.2	10	15	13	18.1	14.9	34	9.2	15	3	20	PKG5_16-5_32_	
PKG5/16-3/16④		3/16	34.7	21.7	12				13	17.4	40.2		9	4	23	PKG5_16-3_16_
PKG5/16-1/4④		1/4	21.3	12	13				17	9	4.6		22	PKG5_16-1_4_		
PKG3/8-1/4④	3/8	1/4	40	23.8	14	17.5	15	20.7	17	46.2	10.5	17.5	4.6	32	PKG3_8-1_4_	
PKG3/8-5/16④		5/16		23.7					12				13	18.1	9	7

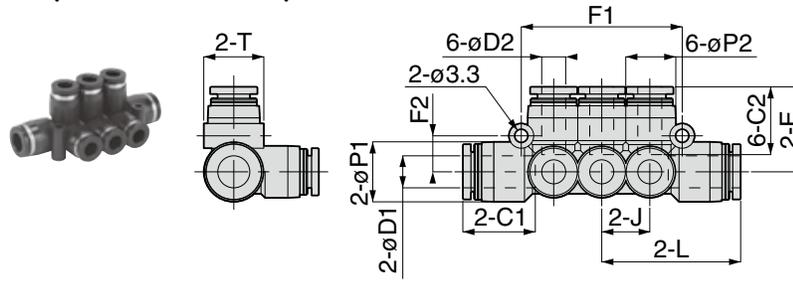
Ask us for **PKG1/4-1/4**

Common caution in this page

- ※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package
- ※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PKVG Unequal Twin Triple Tee

RoHS compliant

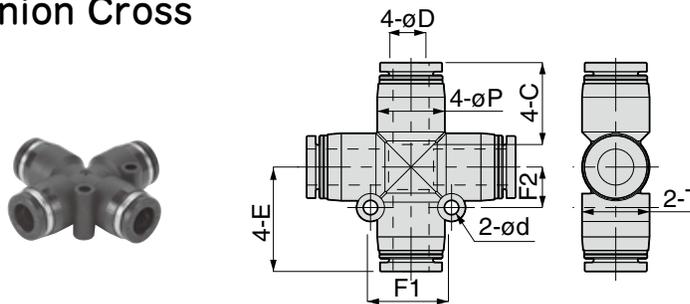


Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	L	E	J	øP1	øP2	Tube end C1	Tube end C2	F1	F2	T	Orifice bore (ømm)	Weight (g)	CAD file name
PKVG8-4④	8	4	34.7	20.7	12	15	13	18.1	14.9	40.2	9	15	3	31	PKVG8-4
PKVG8-6④		6		21.3					17						PKVG8-6
PKVG10-6④	10	6	40	23.8	14	17.5	15	20.2	17	46.2	10.5	17.5	4.6	44	PKVG10-6
PKVG10-8④		8		23.7					18.1						PKVG10-8
PKVG5/16-5/32④	5/16	5/32	34.7	20.7	12	15	13	18.1	14.9	40.2	9	15	3	31	PKVG5_16-5_32
PKVG5/16-3/16④		3/16		21.7					17.4						PKVG5_16-3_16
PKVG5/16-1/4④		1/4		21.3					17						PKVG5_16-1_4
PKVG3/8-3/16④	3/8	3/16	40	24.2	14	17.5	15	20.2	17.4	46.2	10.5	17.5	4	45	PKVG3_8-3_16
PKVG3/8-1/4④		1/4		23.8					17						PKVG3_8-1_4
PKVG3/8-5/16④		5/16		23.7					18.1						PKVG3_8-5_16

PZA Union Cross

RoHS compliant



Unit : mm

Model code	Tube O.D. øD	E	øP	Tube end C	F1	F2	ød	T	Orifice bore (ømm)	Weight (g)	CAD file name
PZA8④	8	23.2	15	18.2	18	9	3.2	15	7	20	PZA8
PZA10④	10	27	17.5	20.7	22.5	11.3	4.2	17.5	9	32	PZA10
PZA12④	12	30.7	21	23.4	24.5	12.3	4.2	21	11	46	PZA12
PZA1/4④	1/4	20.95	13	17	18	9	3.2	13	5	14	PZA1_4
PZA5/16④	5/16	23.2	15	18.2	18	9	3.2	15	7	20	PZA5_16
PZA3/8④	3/8	27	17.5	20.7	22.5	11.3	4.2	17.5	9	33	PZA3_8
PZA1/2④	1/2	31	21	23.7	24.5	12.3	4.2	21	11	44	PZA1_2

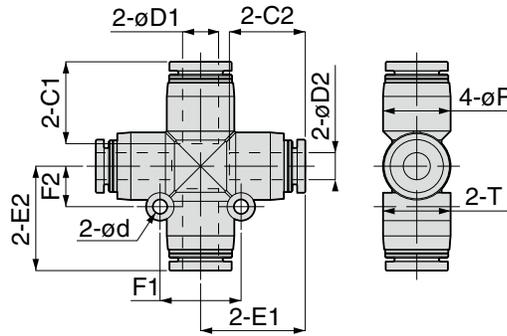
Common caution in this page

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PZB Unequal Cross

RoHS compliant

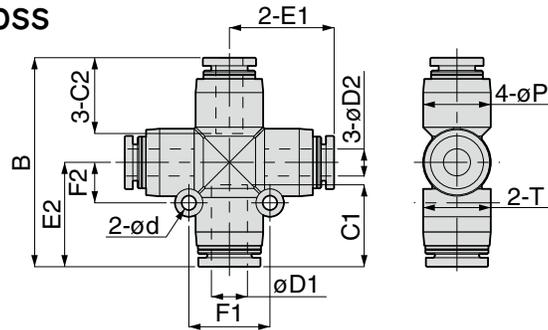


Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	E1	E2	øP	Tube end C1	Tube end C2	F1	F2	ød	T	Orifice bore (ømm)	Weight (g)	CAD file name
PZB8-6④	8	6	23.25	23.2	15	18.2	16.9	18	9	3.2	15	5	20	PZB8-6
PZB10-8④	10	8	26.7	27	17.5	20.7	18.2	22.5	11.3	4.2	17.5	7	29	PZB10-8
PZB12-10④	12	10	30.5	30.7	21	23.4	20.7	24.5	12.3	4.2	21	9	44	PZB12-10
PZB5/16-1/4④	5/16	1/4	23.25	23.2	15	18.2	16.9	18	9	3.2	15	5	19	PZB5_16-1_4
PZB3/8-5/16④	3/8	5/16	26.7	27	17.5	20.7	18.2	22.5	11.3	4.2	17.5	7	30	PZB3_8-5_16
PZB1/2-3/8④	1/2	3/8	30.5	31	21	23.7	20.7	24.5	12.3	4.2	21	9	44	PZB1_2-3_8

PZC Reducing Cross

RoHS compliant



Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	B	E1	E2	øP	Tube end C1	Tube end C2	F1	F2	ød	T	Orifice bore (ømm)	Weight (g)	CAD file name
PZC8-6④	8	6	46.5	23.25	23.2	15	18.2	16.9	18	9	3.2	15	5	19	PZC8-6
PZC10-8④	10	8	53.7	26.7	27	17.5	20.7	18.2	22.5	11.3	4.2	17.5	7	28	PZC10-8
PZC12-10④	12	10	61.2	30.5	30.7	21	23.4	20.7	24.5	12.3	4.2	21	9	44	PZC12-10
PZC5/16-1/4④	5/16	1/4	46.45	23.25	23.2	15	18.2	16.9	18	9	3.2	15	5	19	PZC5_16-1_4
PZC3/8-5/16④	3/8	5/16	53.7	26.7	27	17.5	20.7	18.2	22.5	11.3	4.2	17.5	7	28	PZC3_8-5_16
PZC1/2-3/8④	1/2	3/8	61.5	30.5	31	21	23.7	20.7	24.5	12.3	4.2	21	9	44	PZC1_2-3_8

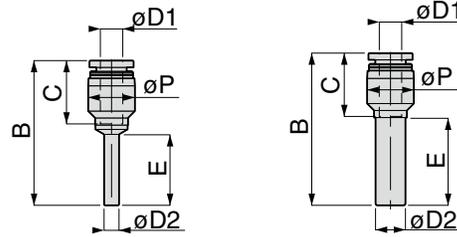
Common caution in this page

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PGJ Unequal Plug-in Straight

RoHS compliant



PGJ4-6, PGJ6-8
PGJ8-10, PGJ10-12

Unit : mm

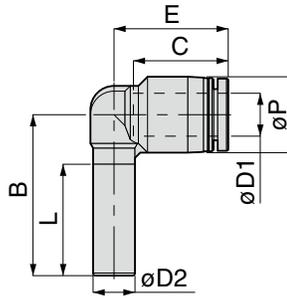
Model code	Tube O.D. øD1	Tube dia. øD2	B	E	øP	Tube end C	Orifice bore (ømm)	Weight (g)	CAD file name
PGJ4-6④	6	4	38.8	18.9	12.5	17	2.5	3.5	PGJ4-6
PGJ6-4④	4	6	37.7	22.3	10	14.9	2.8	2.9	PGJ6-4
PGJ6-8④	8		43.2	21.9	14.5	18.1	4	5.3	PGJ6-8
PGJ8-4④	4	8	40.2	23.3	12.5	14.9	2.8	3.8	PGJ8-4
PGJ8-6④	6		40.8			17	4.3	4	PGJ8-6
PGJ8-10④	10		46.5	22.9	17.5	20.2	6	8.7	PGJ8-10
PGJ8-1/4④	1/4	10	40.8	23.3	12.5	17	4.8	4	PGJ8-1_4
PGJ10-4④	4		42.2			28.3	12.5	14.9	2.8
PGJ10-6④	6		43.8	17	4.3			4.5	PGJ10-6
PGJ10-8④	8	10	43.7	24.8	14.5	18.1	6.1	5.8	PGJ10-8
PGJ10-12④	12		51.2			23.5	21	23.4	7.5
PGJ10-1/4④	1/4		43.8	28.3	12.5	17	4.8	4.5	PGJ10-1_4
PGJ10-5/16④	5/16	12	43.7	24.8	14.5	18.1	6.1	5.8	PGJ10-5_16
PGJ12-6④	6		48.8			33.5	14.5	17	4.3
PGJ12-8④	8		49.7	18.1	6.1			6.7	PGJ12-8
PGJ12-10④	10	12	50	28.8	17.5	20.2	8.1	9.6	PGJ12-10
PGJ12-1/4④	1/4		48.8			33.5	14.5	17	4.8
PGJ12-5/16④	5/16		49.7	18.1	6.1			6.7	PGJ12-5_16
PGJ12-3/8④	3/8	16	50	28.8	17.5	20.2	8.1	9.7	PGJ12-3_8
PGJ16-10④	10		55.2			30.8	21	20.2	8.1
PGJ16-12④	12	55.4	23.4	10	16			PGJ16-12	
PGJ1/4-5/32④	5/32	1/4	37.7	22.3	10	14.9	2.8	3	PGJ1_4-5_32
PGJ5/16-5/32④	5/32	5/16	40.2	23.3	12.5	14.9	2.8	3.8	PGJ5_16-5_32
PGJ5/16-1/4④	1/4		40.8			17	4.8	4	PGJ5_16-1_4
PGJ3/8-1/4④	1/4	3/8	43.8	28.3	12.5	17	4.8	4.3	PGJ3_8-1_4
PGJ3/8-5/16④	5/16		43.7			18.1	6.1	5.6	PGJ3_8-5_16
PGJ1/2-1/4④	1/4	1/2	48.8	33.5	14.5	17	4.8	6.5	PGJ1_2-1_4
PGJ1/2-5/16④	5/16		49.7			18.1	6.1	7.3	PGJ1_2-5_16
PGJ1/2-3/8④	3/8		50	28.8	17.5	20.2	8.1	11	PGJ1_2-3_8

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PLJ Plug-in Elbow

RoHS compliant

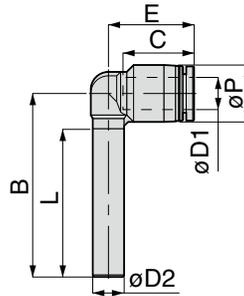


Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	L	øP	Tube end C	E	Orifice bore (ømm)	Weight (g)	CAD file name
PLJ4④	4	4	25	18.5	10	14.9	16.8	2.5	2.7	PLJ4
PLJ6④	6	6	28.5	21	12.5	17	19.8	4	3.9	PLJ6
PLJ8④	8	8	30.7	22	14.5	18.1	21.8	6	5.7	PLJ8
PLJ10④	10	10	33.7	23.5	17.5	20.2	24.9	7.5	9.6	PLJ10
PLJ12④	12	12	39	26.5	21	23.4	28.9	9	15	PLJ12
PLJ16④	16	16	45	31	25	24.1	38.1	12.1	23	PLJ16
PLJ5/32④	5/32	5/32	25	18.5	10	14.9	16.8	2.5	2.7	PLJ5_32
PLJ1/4④	1/4	1/4	28.5	21	12.5	17	19.8	4	4	PLJ1_4
PLJ5/16④	5/16	5/16	30.7	22	14.5	18.1	21.8	6	5.7	PLJ5_16
PLJ3/8④	3/8	3/8	33.7	23.5	17.5	20.2	24.9	7.5	9.5	PLJ3_8
PLJ1/2④	1/2	1/2	39	26.5	21	23.7	29.2	9	15	PLJ1_2

PLLJ Long Plug-in Elbow

RoHS compliant



Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	L	øP	Tube end C	E	Orifice bore (ømm)	Weight (g)	CAD file name
PLLJ4④	4	4	36	29.5	10	14.9	16.8	2.5	2.8	PLLJ4
PLLJ6④	6	6	42	34.5	12.5	17	19.8	4	4.2	PLLJ6
PLLJ8④	8	8	46.7	38	14.5	18.1	21.8	6	6.2	PLLJ8
PLLJ10④	10	10	51.7	41.5	17.5	20.2	24.9	7.5	11	PLLJ10
PLLJ12④	12	12	59.5	47	21	23.4	28.9	9	16	PLLJ12
PLLJ5/32④	5/32	5/32	36	29.5	10	14.9	16.8	2.5	2.8	PLLJ5_32
PLLJ1/4④	1/4	1/4	42	34.5	12.5	17	19.8	4	4.3	PLLJ1_4
PLLJ5/16④	5/16	5/16	46.7	38	14.5	18.1	21.8	6	6.2	PLLJ5_16
PLLJ3/8④	3/8	3/8	51.7	41.5	17.5	20.2	24.9	7.5	11	PLLJ3_8
PLLJ1/2④	1/2	1/2	59.5	47	21	23.7	29.2	9	17	PLLJ1_2

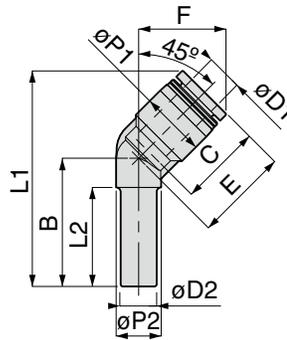
Common caution in this page

※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PLHJ 45° Plug-in Elbow

RoHS compliant

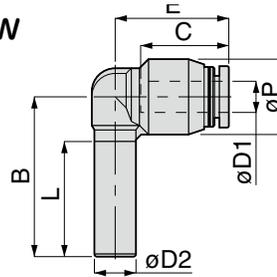


Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	øP1	øP2	Tube end C	L1	L2	E	F	Orifice bore (ømm)	Weight (g)	CAD file name
PLHJ8④	8	8	28.5	14.5	10	18.1	47.9	21	20.7	19.4	6	5.8	PLHJ8
PLHJ10④	10	10	31.5	17.5	11	20.2	54.3	23	24	22.8	7.5	9.5	PLHJ10
PLHJ12④	12	12	35.5	21	14	23.4	63.1	25.5	29.4	27.6	9	15	PLHJ12
PLHJ16④	16	16	41	25	17.6	24.1	70	30.2	29.8	29	13	18	PLHJ16

PLGJ Unequal Plug-in Elbow

RoHS compliant



Unit : mm

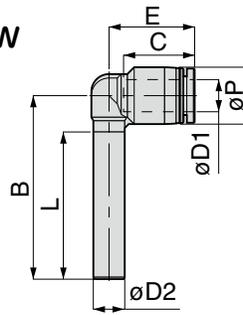
Model code	Tube O.D. øD1	Tube dia. øD2	B	L	øP	Tube end C	E	Orifice bore (ømm)	Weight (g)	CAD file name
PLGJ6-4④	4	6	28.5	21	12.5	14.9	17.7	3.2	3.6	PLGJ6-4
PLGJ8-4④	4	8	30.7	22	14.5	14.9	21.3	3.7	5	PLGJ8-4
PLGJ8-6④	6					17	21.9	4.7	5.2	PLGJ8-6
PLGJ10-6④	6	10	33.7	23.5	17.5	17	24.7	5.1	7.5	PLGJ10-6
PLGJ10-8④	8					18.1	24.6	6.5	8	PLGJ10-8
PLGJ12-8④	8	12	39	26.5	21	18.1	28.4	7	13	PLGJ12-8
PLGJ12-10④	10					20.2	28.7	8	14	PLGJ12-10
PLGJ16-12④	12	16	45	31	25	23.4	38.2	10.7	26	PLGJ16-12
PLGJ1/4-5/32④	5/32	1/4	28.5	21	12.5	14.9	17.7	3.2	3.7	PLGJ1_4-5_32
PLGJ1/4-3/16④	3/16					17.4	20.2	3.3	4.2	PLGJ1_4-3_16
PLGJ1/4-6④	6					17	19.8	4	4	PLGJ1_4-6
PLGJ5/16-3/16④	3/16	5/16	30.7	22	14.5	17.4	22.3	4.7	5.3	PLGJ5_16-3_16
PLGJ5/16-1/4④	1/4					17	21.9		5.1	7.3
PLGJ3/8-1/4④	1/4	3/8	33.7	23.5	17.5	17	24.7	5.1	7.3	PLGJ3_8-1_4
PLGJ3/8-5/16④	5/16					18.1	24.6	6.5	7.8	PLGJ3_8-5_16
PLGJ1/2-5/16④	5/16	1/2	39	26.5	21	18.1	28.4	7	13	PLGJ1_2-5_16
PLGJ1/2-3/8④	3/8					20.2	28.7	8	15	PLGJ1_2-3_8
PLGJ1/2-12④	12					23.4	28.9	9		PLGJ1_2-12

Common caution in this page

- ※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package
- ※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

PLLGJ Unequal Plug-in Long Elbow

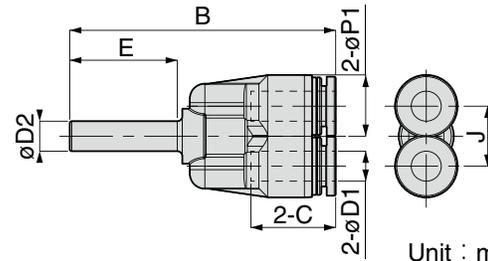
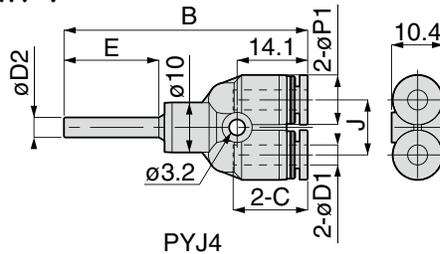
RoHS compliant



Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	L	øP	Tube end C	E	Orifice bore (ømm)	Weight (g)	CAD file name
PLLGJ6-4④	4	6	42	34.5	12.5	14.9	17.7	3.2	3.9	PLLGJ6-4

PYJ Plug-in Y

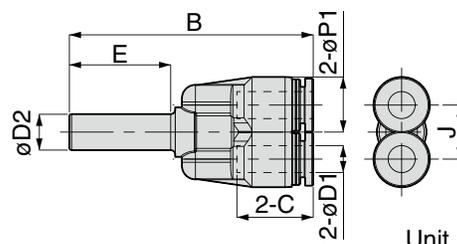
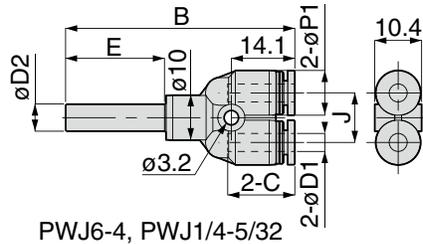


Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	øP1	Tube end C	E	J	Orifice bore (ømm)	Weight (g)	CAD file name
PYJ4④	4	4	48.7	10	14.9	19	11	2.5	6.5	PYJ4
PYJ6④	6	6	53.2	12.5	17	21.5	12	3.9	8.5	PYJ6
PYJ8④	8	8	56.1	14.5	18.1	22.5	14	5.9	13	PYJ8
PYJ10④	10	10	63.2	17.5	20.2	24	18	7.4	21	PYJ10
PYJ12④	12	12	71.3	21	23.4	28	20	8.9	31	PYJ12
PYJ16④	16	16	82.6	25	24.1	30	24	12.9	41	PYJ16
PYJ1/4④	1/4	1/4	53.2	12.5	17	21.5	12	3.9	8.6	PYJ1_4
PYJ5/16④	5/16	5/16	56.1	14.5	18.1	22.5	14	5.9	13	PYJ5_16
PYJ3/8④	3/8	3/8	63.2	17.5	20.2	24	18	7.4	21	PYJ3_8
PYJ1/2④	1/2	1/2	71.6	21	23.7	28	20	8.9	30	PYJ1_2

PWJ Unequal Plug-in Y

RoHS compliant

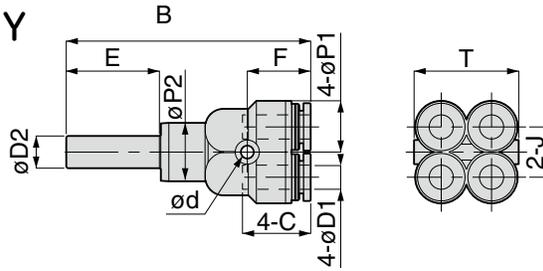


Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	øP1	Tube end C	E	J	Orifice bore (ømm)	Weight (g)	CAD file name
PWJ6-4④	4	6	50.9	10	14.9	22	11	2.6	6.8	PWJ6-4
PWJ8-6④	6	8	54.2	12.5	17	22.5	12	5.3	8.8	PWJ8-6
PWJ10-8④	8	10	57.6	14.5	18.1	24	14	5.9	13	PWJ10-8
PWJ12-10④	10	12	67.2	17.5	20.2	28	18	7.4	22	PWJ12-10
PWJ16-12④	12	16	73.3	21	23.4	30	20	8.9	32	PWJ16-12
PWJ1/4-5/32④	5/32	1/4	50.9	10	14.9	22.3	11	2.6	6.8	PWJ1_4-5_32
PWJ5/16-1/4④	1/4	5/16	54.2	12.5	17	22.5	12	5.3	8.7	PWJ5_16-1_4
PWJ3/8-5/16④	5/16	3/8	57.6	14.5	18.1	24	14	5.9	13	PWJ3_8-5_16
PWJ1/2-3/8④	3/8	1/2	67.2	17.5	20.2	28	18	7.4	22	PWJ1_2-3_8

PRJ Plug-in Double Y

RoHS compliant

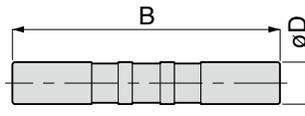


Unit : mm

Model code	Tube O.D. $\phi D1$	Tube dia. $\phi D2$	B	E	J	$\phi P1$	$\phi P2$	Tube end C	ϕd	F	T	Orifice bore (ϕ mm)	Weight (g)	CAD file name
PRJ6-4④	4	6	55	22	10.3	10.5	12.5	14.9	3.2	14.2	21.3	3.2	13	PRJ6-4_
PRJ8-6④	6	8	60.8	23.2	12.5	13	14.5	17	3.2	15.8	26	4.6	19	PRJ8-6_

PIJ Union Stem

RoHS compliant

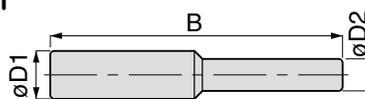


Unit : mm

Model code	Tube dia. ϕD	B	Orifice bore (ϕ mm)	Weight (g)	CAD file name
PIJ4④	4	34.8	2.5	0.3	PIJ4
PIJ6④	6	38.2	4	0.6	PIJ6
PIJ8④	8	41.4	6	1	PIJ8
PIJ10④	10	46.2	7.5	1.7	PIJ10
PIJ12④	12	52.8	9	2.8	PIJ12
PIJ16④	16	55.6	13	3.8	PIJ16
PIJ5/32④	5/32	34.8	2.5	0.3	PIJ5_32
PIJ3/16④	3/16	38.2	3	0.5	PIJ3_16
PIJ1/4④	1/4	38.2	4.5	0.7	PIJ1_4
PIJ5/16④	5/16	41.4	6	1	PIJ5_16
PIJ3/8④	3/8	46.2	6.9	1.7	PIJ3_8
PIJ1/2④	1/2	52.8	9.5	3.2	PIJ1_2

PIG Unequal Union Stem

RoHS compliant

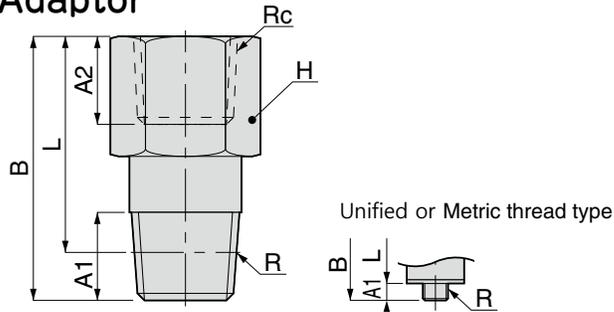


Unit : mm

Model code	Tube dia. $\phi D1$	Tube dia. $\phi D2$	B	Orifice bore (ϕ mm)	Weight (g)	CAD file name
PIG6-4④	6	4	36.7	2.5	0.5	PIG6-4
PIG8-4④	8	4	41.1	2.5	0.9	PIG8-4
PIG8-6④		6	40.5	4		PIG8-6
PIG10-6④	10	6	43.7	4	1.4	PIG10-6
PIG10-8④		8	44	6	1.3	PIG10-8
PIG12-8④	12	8	47.5	6	2.1	PIG12-8
PIG12-10④		10	49.6	7.5	2.2	PIG12-10
PIG16-10④	16	10	52.5	7.5	4.5	PIG16-10
PIG16-12④		12	54.4	9	4.2	PIG16-12
PIG3/16-5/32④	3/16	5/32	36.7	2.5	0.4	PIG3_16-5_32
PIG1/4-5/32④	1/4	5/32	36.7	2.5	0.5	PIG1_4-5_32
PIG1/4-3/16④		3/16	38.2	2.4	0.7	PIG1_4-3_16
PIG5/16-1/4④	5/16	1/4	40.5	4	0.9	PIG5_16-1_4
PIG3/8-5/16④	3/8	5/16	44	6	1.3	PIG3_8-5_16
PIG1/2-3/8④	1/2	3/8	49.6	7.1	2.4	PIG1_2-3_8



Extension Screw Adaptor



❖ NPT and UNF thread

unit: inch

Model	R	Rc	A1	A2	B	L	Hex. H	Orifice ϕ (mm)	Weight (g)
PFU10-U10U	No.10-32UNF	No.10-32UNF	0.12	0.20	0.77	0.65	5/16	1.8	5.2
PFU10-N1U	No.10-32UNF	1/8-27NPT	0.12	0.28	0.57	0.45	9/16	1.8	11
PFN1-U10U	1/8-27NPT	No.10-32UNF	0.31	0.24	0.47	0.31	7/16	4.2	6.4
PFN1-N1U	1/8-27NPT	1/8-27NPT	0.31	0.28	1.12	0.96	9/16	6	17
PFN1-N2U	1/8-27NPT	1/4-18NPT	0.31	0.37	0.83	0.67	11/16	6	20
PFN1-N3U	1/8-27NPT	3/8-18NPT	0.31	0.41	0.87	0.70	7/8	6	33
PFN2-U10U	1/4-18NPT	No.10-32UNF	0.43	0.24	0.63	0.40	9/16	4.2	17
PFN2-N1U	1/4-18NPT	1/8-27NPT	0.43	0.28	0.75	0.52	9/16	4.6	17
PFN2-N2U	1/4-18NPT	1/4-18NPT	0.43	0.37	1.30	1.07	11/16	8	35
PFN2-N3U	1/4-18NPT	3/8-18NPT	0.43	0.41	0.98	0.76	7/8	8	35
PFN2-N4U	1/4-18NPT	1/2-14NPT	0.43	0.51	1.18	0.95	1	8	48
PFN3-N1U	3/8-18NPT	1/8-27NPT	0.47	0.28	0.69	0.45	11/16	6	25
PFN3-N2U	3/8-18NPT	1/4-18NPT	0.47	0.37	0.89	0.65	11/16	8	27
PFN3-N3U	3/8-18NPT	3/8-18NPT	0.47	0.41	1.46	1.22	7/8	10	57
PFN3-N4U	3/8-18NPT	1/2-14NPT	0.47	0.51	1.22	0.98	1	10	52
PFN4-N4U	1/2-14NPT	1/2-14NPT	0.59	0.51	1.69	1.37	1	11	94

Unit : mm

Model code	R	Rc	A1	A2	B	L	Hex. H	Orifice bore (ϕ mm)	Weight (g)	CAD file name
PFM5-M5④	M5 × 0.8	M5 × 0.8	3 [3.2]	5	19.5	16.5 [16.3]	8	1.8	5.3	PFM5-M5[C]
PFM5-M5L④					23	20 [19.8]			6.2	PFM5-M5L[C]
PFM5-01④		Rc1/8		7	14.5	11.5 [11.3]			14	11
PF01-M5④	R1/8	M5 × 0.8	8	6	12	8	10	4.2	5.7	PF01-M5
PF01-01④				Rc1/8	7	28.5	24.5	14	18	PF01-01
PF01-02④		Rc1/4		9.5	21	17	17	6	19	PF01-02
PF01-03④		Rc3/8		10.5	22	18	21	28	PF01-03	
PF02-M5④	R1/4	M5 × 0.8	11	6	16	10	14	4.2	16	PF02-M5
PF02-01④				Rc1/8	7	19		13	4.6	17
PF02-02④		Rc1/4		9.5	33	27	17	8	32	PF02-02
PF02-03④		Rc3/8		10.5	25	19	21	32	PF02-03	
PF02-04④		Rc1/2		13	30	24	24	44	PF02-04	
PF03-01④	R3/8	Rc1/8	12	7	17.5	11.2	17	6	25	PF03-01
PF03-02④		Rc1/4		9.5	22.5	16.2		8	27	PF03-02
PF03-03④		Rc3/8		10.5	37	30.7	21	10	53	PF03-03
PF03-04④		Rc1/2		13	31	24.7	24		47	PF03-04
PF04-04④	R1/2	Rc1/2	15	13	43	34.8	24	11	86	PF04-04

※ 1. ④ in Model code / Replaced with "-C" for Clean-room package, "-UC" for Clean-wash and Clean-room package.

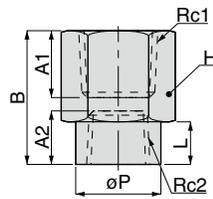
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 3. Dimensions in [] are for clean-room and clean-wash package products.

※ 4. Orifice bore is the smallest passage converted in terms of the diameter.

PPF Unequal Screw Union

RoHS compliant



Model	Rc1	Rc2	A1	A2	B	L	φP	Hex.	Orifice φ (mm)	Weight (g)
PFFN1-U10U	1/8-27NPT	No.10-32UNF	0.28	0.16	0.67	0.28	0.31	9/16	3	12
PFFN2-N1U	1/4-18NPT	1/8-27NPT	0.37	0.28	0.83	0.31	0.55	9/16	6.5	23
PFFN3-N1U	3/8-18NPT	1/8-27NPT	0.37	0.28	0.87	0.31	0.55	7/8	6.5	35
PFFN3-N2U	3/8-18NPT	1/4-18NPT	0.41	0.37	0.98	0.43	0.67	7/8	9	39
PFFN4-N2U	1/2-14NPT	1/4-18NPT	0.51	0.37	1.18	0.43	0.67	1	9	59
PFFN4-N3U	1/2-14NPT	3/8-18NPT	0.51	0.41	1.30	0.55	0.83	1	12	67

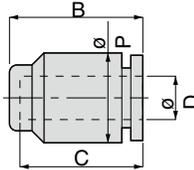
unit: inch

Model code	Rc1	Rc2	A1	A2	B	L	φP	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PFF01-M5 ④	Rc1/8	M5×0.8	7	4	17	7	8	14	4.2	12	PFF01-M5
PFF02-01 ④	Rc1/4	Rc1/8	9.5	7	21	8	14	17	6.5	23	PFF02-01
PFF03-01 ④	Rc3/8	Rc1/8	10.5	7	22	8	14	21	6.5	32	PFF03-01
PFF03-02 ④		Rc1/4		9.5	25	11	17		9	36	PFF03-02
PFF04-02 ④	Rc1/2	Rc1/4	13	9.5	30	11	17	24	9	51	PFF04-02
PFF04-03 ④		Rc3/8		10.5	33	14	21		12	58	PFF04-03

Unit : mm

PPF Cap

RoHS compliant

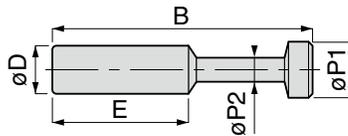


Unit : mm

Model code	Tube O.D. øD	B	φP	C	Weight (g)	CAD file name
PPF4 ④	4	16.4	10	14.9	2.4	PPF4
PPF6 ④	6	18.5	12.5	17	3.3	PPF6
PPF8 ④	8	19.9	14.5	18.4	4.7	PPF8
PPF10 ④	10	22.3	17.5	20.7	7.8	PPF10
PPF12 ④	12	24.9	21	22.9	12	PPF12
PPF16 ④	16	27.6	25	24.1	14	PPF16
PPF1/8 ④	1/8	14.8	10	11	1.6	PPF1_8
PPF5/32 ④	5/32	16.4	10	14.9	2.4	PPF5_32
PPF3/16 ④	3/16	18.9	12.5	17.4	3.4	PPF3_16
PPF1/4 ④	1/4	18.5	12.5	17	3.3	PPF1_4
PPF5/16 ④	5/16	19.9	14.5	18.4	4.7	PPF5_16
PPF3/8 ④	3/8	22.3	17.5	20.7	7.8	PPF3_8
PPF1/2 ④	1/2	25.2	21	23.2	12	PPF1_2

PP Plug

RoHS compliant



Unit : mm

Model code	Tube dia. øD	B	E	φP1	φP2	Weight (g)	CAD file name
PP4 ④	4	27.5	15	5	3	0.3	PP4
PP6 ④	6	32.5	17	7	3	0.7	PP6
PP8 ④	8	36.5	18.1	9	4	1.1	PP8
PP10 ④	10	42	20.2	11	5	1.9	PP10
PP12 ④	12	44	23.4	13	6	2.4	PP12
PP16 ④	16	46	24.1	17	8	4.2	PP16
PP5/32 ④	5/32	27.5	15	5	3	0.3	PP5_32
PP3/16 ④	3/16	32.5	17	7	3	0.5	PP3_16
PP1/4 ④	1/4	33	17	7.5	3	0.7	PP1_4
PP5/16 ④	5/16	36.5	18.1	9	4	0.9	PP5_16
PP3/8 ④	3/8	42	20.2	10.5	5	1.5	PP3_8
PP1/2 ④	1/2	44	23.4	13	6	2.9	PP1_2

※ The body color for inch sizes is white.

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...General rules and safety requirements for system and their components.

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

This Safety instructions are 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 case death or serious personal injury.

 **Caution** Hazardous conditions depending on usages. Improper use of PISCO products can cause personal injury or damages to properties.

Warning

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 malfunction.
2. The pneumatic equipments shall be handled by a person having enough knowledge and experiences.
 - 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.

Warranty

1. When the product produces a trouble, which is caused by our responsibility, we will carry out either one of the following measures immediately.
 - ① Free-of-charge replacement of same product
 - ② Free-of-charge repair of the product at our factory

Disclaimer

When a cause of the trouble/malfunction applies to any of the following items, it is excluded from the coverage of the above warranty.

- ①. A case by a natural disaster, a fire except our responsibility, the act by the third person/party, the intention or fault of the customer.
- ②. A case when a product is used out of the specific range or in a method listed in the product catalog or the instruction manual.
- ③. A case by the remodeling of the product or by a change of structure, performance, or specifications which PISCO is not involved in.
- ④. A case by the event that is unpredictable by the evaluations and the measures at the time on or before the initial delivery.
- ⑤. A case caused by the phenomenon that is able to be evaded if your machine or equipment has functions or structures that are comprised in a common sense when this product is incorporated in your machine or equipment.

Additionally, the above warranty is limited simply to the product itself. The damage induced by the trouble of the product will not be compensated.



Common Safety Instructions for Products Listed in This Catalog

PISCO products are designed and manufactured for use in general industrial machines.

Danger

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.

Warning

1. Do not use PISCO products under the following conditions.
 - ① Beyond the specifications or conditions stated in the catalog, or the instructions.
 - ② Use at outdoors.
 - ③ Excessive vibrations and impacts.
 - ④ Exposure / adhere to corrosive gas, flammable gas, chemicals, seawater, water and vapor.
 - * Some products can be used under the condition above(④). Refer to the details of specifications and conditions of each product.
2. Do not disassemble or modify PISCO products, which affect the performance, function, and basic structure of the product.
3. Do not touch the release-ring of a 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.
4. Frequent switchover of compressed air may generate heat, and there is a risk of causing burn injury.
5. Avoid any load on PISCO products, such as, a tensile strength, twisting and bending.
6. 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.
7. 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 heat medium oil. Other PISCO products can be damaged by heat and hydrolysis under the condition above.
8. 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.

9. Use only Fittings with a characteristic of spatter-proof such as Anti-spatter or Brass series in a place where flame and weld spatter is produced. There is a risk of causing fire by sparks.
10. 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. Follow the instructions below in order to ensure the safety.
 - ① 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 the 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.
11. Take safety measures such as providing a protection cover if there is a risk of causing damages or fire on machine / facilities by a fluid leakage.

⚠ Caution

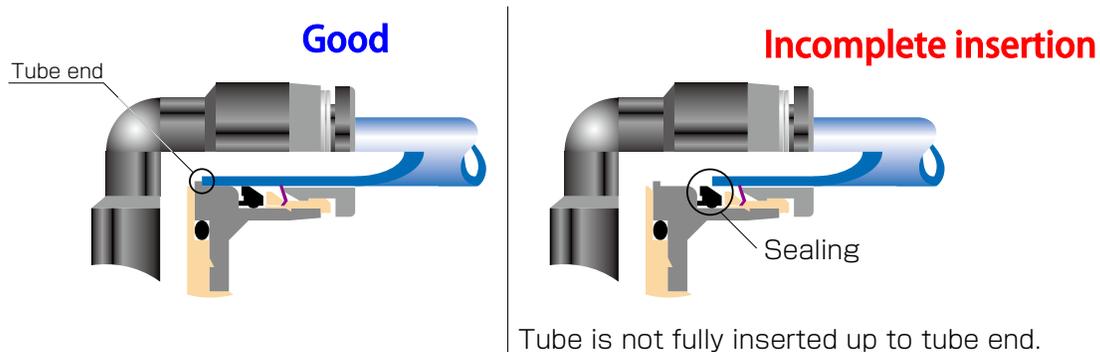
1. Remove dusts or drain before piping. They may get into the peripheral machine / facilities and cause malfunction.
2. When inserting an ultra-soft tube into a push-in fitting, make sure to place an Insert Ring into the tube edge. There is a risk of causing the escape of the tube and a fluid leakage 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.
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 and tube hardness are within the limits of Table 1.

● Table 1. Tube O.D. Tolerance

mm size	Nylon tube (SHORE D63)	Polyurethane tube (SHORE A98)	inch size	Nylon tube (SHORE D63)	Polyurethane tube (SHORE A98)
ø1.8mm	—	± 0.05mm	ø1/8	± 0.1mm	± 0.15mm
ø2mm	—	± 0.05mm	ø5/32	± 0.1mm	± 0.15mm
ø3mm	—	± 0.15mm	ø3/16	± 0.1mm	± 0.15mm
ø4mm	± 0.1mm	± 0.15mm	ø1/4	± 0.1mm	± 0.15mm
ø6mm	± 0.1mm	± 0.15mm	ø5/16	± 0.1mm	± 0.15mm
ø8mm	± 0.1mm	± 0.15mm	ø3/8	± 0.1mm	± 0.15mm
ø10mm	± 0.1mm	± 0.15mm	ø1/2	± 0.1mm	± 0.15mm
ø12mm	± 0.1mm	± 0.15mm	ø5/8	± 0.1mm	± 0.15mm
ø16mm	± 0.1mm	± 0.15mm			

6. Instructions for Tube Insertion

- ① Make sure that the cut end surface of the tube is at a right angle without a scratch on the tube surface or 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.



- 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 ② The 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 deep 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.

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 tightening torque. Do not exceed these limits to tighten a thread. Excessive tightening may break the thread part or deform the gasket to 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: Tightening torque / Sealock color / Gasket materials

Thread type	Thread size	Tightening torque	Sealock color	Gasket material
Metric thread	M3 × 0.5	0.7N·m	—	SPCC+NBR SUS304+NBR
	M5 × 0.8	1 ~ 1.5N·m		
	M6 × 1	2 ~ 2.7N·m		
	M3 × 0.5	0.7N·m		POM
	M5 × 0.8	1 ~ 1.5N·m		
	M6 × 0.75	0.8 ~ 1N·m		
Taper pipe thread	M8 × 0.75	1 ~ 2N·m	White	—
	R1/8	4.5 ~ 6.5N·m		
	R1/4	7 ~ 9N·m		
	R3/8	12.5 ~ 14.5N·m		
Unified thread	R1/2	20 ~ 22N·m	—	SPCC+NBR, SUS304+NBR
	No.10-32UNF	1 ~ 1.5N·m		
National Pipe Thread Taper (American standard)	1/16-27NPT	4.5 ~ 6.5N·m	White	—
	1/8-27NPT	4.5 ~ 6.5N·m		
	1/4-18NPT	7 ~ 9N·m		
	3/8-18NPT	12.5 ~ 14.5N·m		
	1/2-14NPT	20 ~ 22N·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 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 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.

11. Instructions for handling a fitting

- ① Impact caused by dropping or the like may lead to damage to the product and a fluid leakage.

Common Safety Instructions for Fittings

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

Warning

1. Use PISCO products within the range of the specifications for each series. Consult with PISCO for use outside the specifications.

Caution

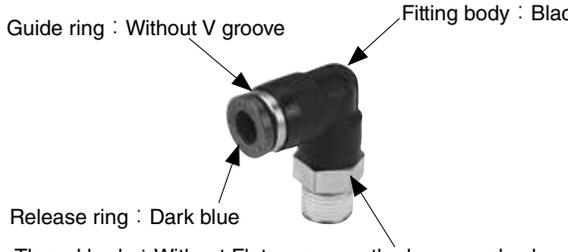
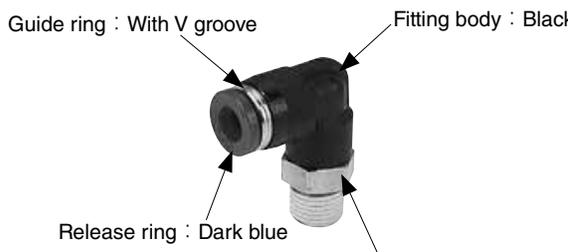
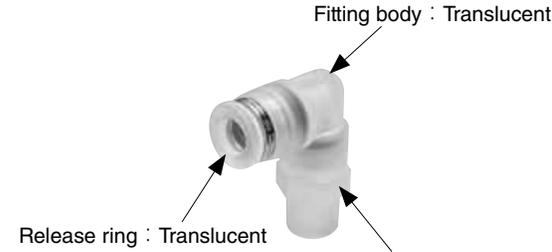
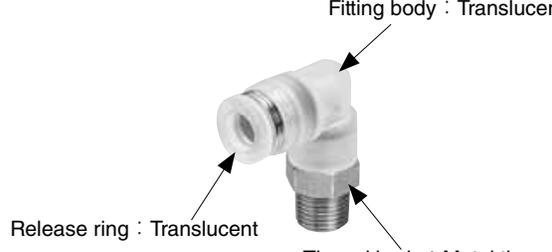
1. A bulkhead nut of Bulkhead Union (PM), Bulkhead Union P (PMP), and Bulkhead Union Elbow (PML) should be tightened within the specified tightening torque range.

● Bulkhead nut tightening torque

Series	Tube size	Tightening torque	
		Bulkhead Union (PM)	Bulkhead Union P (PMP), Bulkhead Union Elbow (PML)
Tube Fitting	4	12.0 ~ 14.0N·m	0.4 ~ 0.6N·m
	6	18.0 ~ 21.0N·m	0.9 ~ 1.1N·m
	8	18.0 ~ 21.0N·m	1.1 ~ 1.3N·m
	10	19.0 ~ 21.0N·m	2.3 ~ 2.7N·m
	12	19.0 ~ 21.0N·m	2.7 ~ 3.3N·m
	16	42.0 ~ 54.0N·m	—
Tube Fitting Mini	1.8	0.8 ~ 1.0N·m	—
	2	0.8 ~ 1.0N·m	
	3	2.5 ~ 3.5N·m	
	4	5.0 ~ 7.0N·m	
	6	12.0 ~ 14.0N·m	

2. If an object between the bulkhead nut and fitting body is deformable or has oil on its surface, the nut may loosen after tightening.
3. PISCO pneumatic fittings are designed for use with tube inserted. Air supply without tube insertion such as air flushing may cause an elastic sleeve to fly out of the fitting.

Identification of fittings

Tube Fitting Standard	Tube Fitting Standard Clean-room Package
 <p style="margin-left: 100px;">Fitting body : Black</p> <p style="margin-left: 10px;">Release ring : Black</p>	 <p style="margin-left: 100px;">Fitting body : Light-gray</p> <p style="margin-left: 10px;">Release ring : Light-blue</p>
Tube Fitting Mini	Tube Fitting Mini Clean-room Package
 <p style="margin-left: 100px;">Fitting body : Black</p> <p style="margin-left: 10px;">Release ring : Black</p>	 <p style="margin-left: 100px;">Fitting body : Light-gray</p> <p style="margin-left: 10px;">Release ring : Light-blue</p>
Tube Fitting Stainless SUS303 Equivalent Corrosivity	Tube Fitting Stainless SUS304
 <p style="margin-left: 10px;">Guide ring : Without V groove</p> <p style="margin-left: 100px;">Fitting body : Black</p> <p style="margin-left: 10px;">Release ring : Dark blue</p> <p style="margin-left: 10px;">Thread body : Without Flat groove on the hexagonal column</p>	 <p style="margin-left: 10px;">Guide ring : With V groove</p> <p style="margin-left: 100px;">Fitting body : Black</p> <p style="margin-left: 10px;">Release ring : Dark blue</p> <p style="margin-left: 10px;">Thread body : With Flat groove on the hexagonal column</p>
Tube Fitting PP (Thread material : PP)	Tube Fitting PP (Thread material : SUS304)
 <p style="margin-left: 100px;">Fitting body : Translucent</p> <p style="margin-left: 10px;">Release ring : Translucent</p> <p style="margin-left: 100px;">Thread body : Resin thread</p>	 <p style="margin-left: 100px;">Fitting body : Translucent</p> <p style="margin-left: 10px;">Release ring : Translucent</p> <p style="margin-left: 100px;">Thread body : Metal thread</p>

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

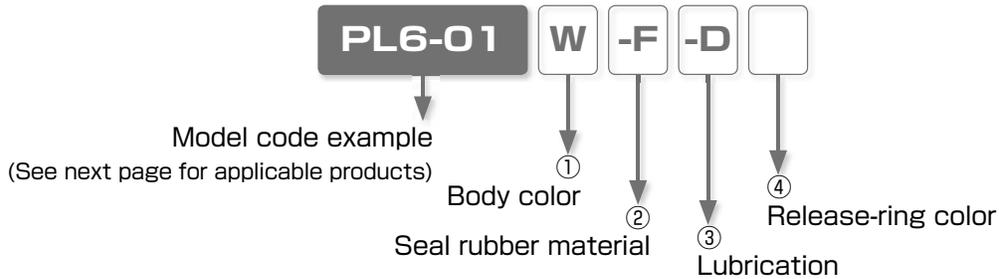
- *Non-purple option*

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.

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

■ Model Designation (Example)



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	-HN	No code
Material	FKM	EPDM (Oil-free)	HNBR	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	-P	No code
Option	Oil-free	Non-purple	Standard lubrication

※ 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.

※ 3. Non-purple option is not available with FKM option. No sealcoat is provided on the thread.

④ Release-ring color

Code	-RR	No code
Color	Red	Standard color

※ . 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

Series	Standard specification						Special specification								
	Body Color and Packaging / Cleaning option	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	FKM	EPDM	HNBR	Oil-free	Non-Purple	Red									
W*1	-F*2	-E*3	-HN	-D*4	-P*2	-RR									
Tube Fitting Standard Series	Standard	Black	Black	NBR	Turbin oil	With seallock coat	×	○*5	○	○	○	○			
	Light-gray	Light-gray	Light-gray				Std. option	○					○		
	Clean-room Pkg	Light-gray	Light-blue				×	○*6					○	×	
	Light-gray + Clean-room pkg	Light-gray	Light-gray				Std. option	○					○	×	
Clean washing + Clean-room pkg	Light-gray	Light-blue	Oil-free	×	×	○*6	Std. option	○	○	×					
Tube Fitting Mini Series	Standard	Black	Black	NBR	Turbin oil	With seallock coat	×	○*5,*10	○*10	○*10	○	○			
	Light-gray	Light-gray	Light-gray				Std. option	○					○		
	Clean-room Pkg	Light-gray	Light-blue				×	○*10					○*6,*10	×	
	Light-gray + Clean-room pkg	Light-gray	Light-gray				Std. option	○*10					○	×	
Tube Fitting Stainless SUS304 Series	—	Black	Dark-blue	FKM	Turbin oil	With seallock coat	×	Std. option	○*7	○	○*7	×	—		
Tube Fitting Stainless SUS303 Equiv. corrosivity	Standard	Black	Dark-blue	HNBR	Turbin oil	With seallock coat	○	○	○*7	Std. option	○*7	○	○		
	Clean washing + Clean-room pkg	Black	Dark-blue				×	×						Std. option	×
Tube Fitting EG Series	—	Black	Black	NBR	Turbin oil	With seallock coat	×	○	○*8	○	○*8	○	—		
Tube Fitting Brass Series	—	—	—	HNBR	Turbin oil	With seallock coat	×	—	×	Std. option	○	○	×		
				FKM				Std. option							
				NBR				—							
Tube Fitting Long Series	—	—	Black	NBR	Turbin oil	With seallock coat	×	○*5	○	○	○	○	○		
Main Block	Standard	Black	Black	NBR	Turbin oil	With seallock coat	×	○*5	○	○	—	×	○		
	Light-gray	Light-gray	Light-gray				Std. option	○							
Connector	—	Black	Black	NBR	Turbin oil	—	×	○*5	○	○	○	×	○		
Speed Controller Series	Standard	Black	Black	NBR	Turbin oil	With seallock coat	×	○*13	○*10	○*10,*11	—	○	○		
	Light-gray	Light-gray	Light-gray				Std. option	○							
	Clean-room Pkg	Light-gray	Light-blue				×	*10,*11						○*6,*10	×
	Light-gray + Clean-room pkg	Light-gray	Light-gray				Std. option	*12						○*10	×
Speed Controller SUS303 Equiv. corrosivity	—	Black	Dark-blue	HNBR	Turbin oil	With seallock coat	○	○*11,*12	○*7	Std. option	—	○	○		
Needle Valve Series	Standard	Black	Black	NBR	Turbin oil	With seallock coat	×	○*5,*12	○	○	—	○	○		
	Light-gray	Light-gray	Light-gray				Std. option	○							
	Clean-room Pkg	Light-gray	Light-blue				×	○*12						○*6	×
	Light-gray + Clean-room pkg	Light-gray	Light-gray				Std. option	○						○	×
Fixed orifice joint Series	—	Black	Black	NBR	Turbin oil	With seallock coat	○	○	○	○	○	○	○*9		
Regulator	—	Black	Black	NBR	Turbin oil	With seallock coat	×	×	×	×	×	○	○		
Check Valve (metal body)	—	—	Black	NBR	Turbin oil	With seallock coat	×	○	×	×	—	○	○		
Check Valve (resin body)		Light-gray	Light-gray				Std. option								
Low cracking pressure Check Valve	—	Light-gray	Light-gray	HNBR (Elastic sleeve)	Turbin oil	—	Std. option	○ (Elastic sleeve)	○ (Elastic sleeve)	Std. option	○	×	○		
				FKM (Poppet valve packing)				Std. option	×					×	

*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.

*2. Non-purple (-P) option is not available with seal rubber material FKM. No Seallock coating for Non-purple option.

*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. \varnothing 1.8mm and \varnothing 2mm.

*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.

※ 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)

Series	Resin color or Option	Tube dia. size	Seal rubber material		Lubrication	Release-ring color
			-F	-E	-D	-RR
			FKM	EPDM	Oil-free	Red
Tube Fitting Standard Series Tube Fitting Mini Series	-	(mm size)				
		(inch size)				
	Light-gray	(mm size)				
	Clean-room Pkg	(mm size)				
		(inch size)				
	Light-gray + Clean-room pkg	(mm size)				
Tube Fitting Standard Series	Clean washing + Clean-room pkg	(mm size)			Std. option	
		(inch size)			Std. option	
Tube Fitting Stainless SUS304 series	-	(mm size)		Std. option		
Tube Fitting Stainless SUS303 Equiv. corrosivity	-	(mm size)				
	Light-gray	(mm size)				
	Clean washing + Clean-room pkg	(mm size)			Std. option	

Make-to-order products

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

Series	Resin color or Option	Tube dia. size	Seal rubber material		Lubrication	Release-ring color		
			-F	-E	-D	-RR		
			FKM	EPDM	Oil-free	Red		
Tube Fitting Standard Series Tube Fitting Mini Series	-	(mm size)						
		(inch size)						
	Light-gray	(mm size)						
		(inch size)						
	Clean-room Pkg	(mm size)						
		(inch size)						
	Light-gray + Clean-room pkg	(mm size)						
	Clean washing + Clean-room pkg	(mm size)				Std. option		
		(inch size)				Std. option		
	Stainless SUS304 series	-	(mm size)		Std. option			
	Tube Fitting Stainless SUS303 Equiv. corrosivity	-	(mm size)					
		Light-gray	(mm size)					
Clean washing + Clean-room pkg		(mm size)				Std. option		

※ 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 (Speed controller and Needle Valve)

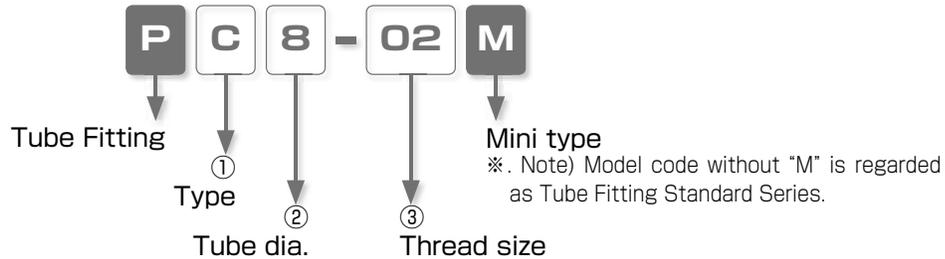
Series	Resin color or Option	Tube dia. size		Seal rubber material		Release-ring color
				-F	-E	-RR
				FKM	EPDM	Red
Speed Controller Series Needle Valve Series	-	(mm size)				
		(inch size)				
	Light-gray	(mm size)				
		(inch size)				
	Clean-room Pkg	(mm size)				
		(inch size)				
	Light-gray + Clean-room pkg	(mm size)				

Space-Saving Options

■ Characteristics

- *Suitable for Installing in Limited Spaces.*

■ Model Designation (Example)



① Type

Code	Type	Code	Type	Code	Type
L	Elbow	B	Branch Tee	D	Run Tee

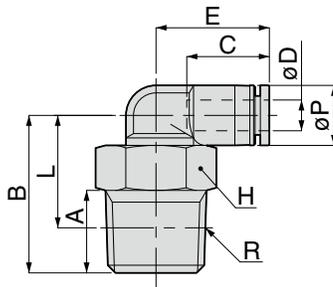
② Tube dia.

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

PL
Mini
Elbow

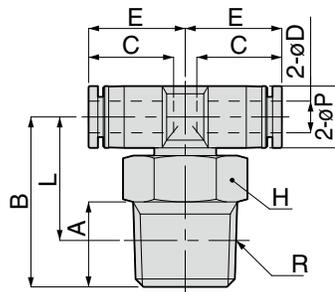


Unit : mm

Model code	Tube O.D. øD	R	A	B	Tube end C	L	Hex. H	E	øP	Weight (g)
PL8-01M	8	R1/8	8	22.5	18.1	18.5	12	21.9	15	11.9
PL8-02M		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.

PB
Mini
Branch Tee

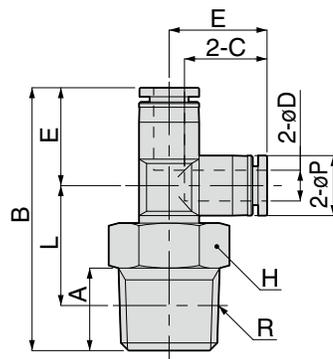


Unit : mm

Model code	Tube O.D. øD	R	A	B	Tube end C	L	Hex. H	E	øP	Weight (g)
PB8-01M	8	R1/8	8	22.5	18.1	18.5	12	21.9	15	12.8
PB8-02M		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			30.4

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

PD
Mini
Run Tee



Unit : mm

Model code	Tube O.D. øD	R	A	B	Tube end C	L	Hex. H	E	øP	Weight (g)
PD8-01M	8	R1/8	8	44.2	18.1	18.5	12	21.7	15	11.9
PD8-02M		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			28.8

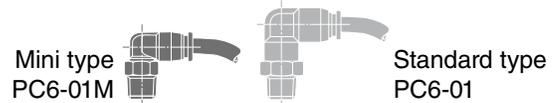
※ .L" is a reference value for height dimension after tightening thread.



Ultra Small Push-In Fitting Type for Pneumatic Piping

Tube Fitting Mini Series

- *Ultra Small Push-In Fitting for General Pneumatic Piping.*
- *40% Miniaturized compared to Standard Type.*



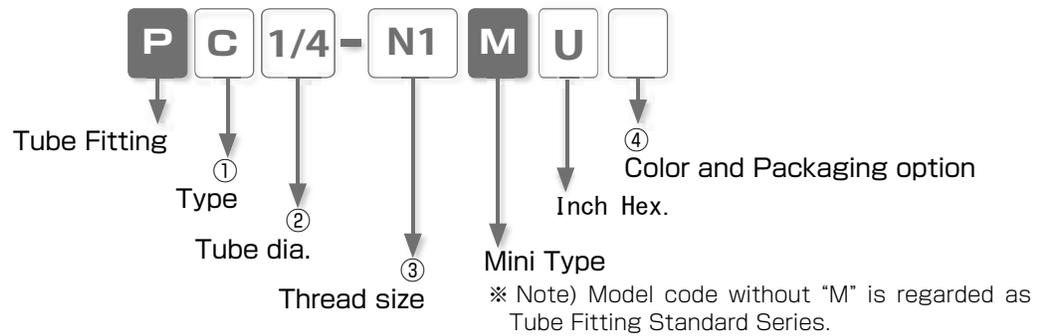
- *Easy Tube Release with Oval Release-Ring.*
- *ø1.8 Tube Size. The Industry's First Smallest Push-In Fitting. Suitable for Small Actuator Piping*



- *Optional Selection of Body Color (light-gray) and Clean-Room Package.*

Fluorine-based grease is used on O-ring for clean-room package.
 Products are packed in a clean room equivalent to ISO class 6.

Model Designation (Example)



① Type

Code	Type	Code	Type	Code	Type	Code	Type
C	Straight	OC	Inner Hex. Straight	CC	Cartridge	L	Elbow
LL	Long Elbow	LH	45° Elbow	B	Branch Tee	D	Run Tee
OL	Hex. Holed Banjo	OLL	Hex. Holed Long Banjo	U	Union Straight	G	Unequal Union Straight
V	Union Elbow	E	Union Tee	EG	Unequal Union Tee	Y	Union Y
W	Unequal Union Y	M	Bulkhead Union	ZA	Cross A	ZB	Cross B
ZC	Cross C	GJ	Unequal Plug-in Straight	LJ	Plug-in Elbow	LGJ	Unequal Plug-in Elbow
LHJ	45° Plug-in Elbow	YJ	Plug-in Y	WJ	Unequal Plug-in Y	CF	Female Straight
F	Extension Screw Adaptor	IJ	Union Stem	PF	Cap	P	Plug

② Tube dia. (※ In case that ② indicates thread size, select thread size from table ③)

Tube dia.	inch size				mm size				
Code	1/8	5/32	3/16	1/4	180	2	3	4	6
Size O.D.	1/8"	5/32"	3/16"	1/4"	∅1.8	∅2	∅3	∅4	∅6

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

Thread	Unified thread	National pipe taper thread			
Code	U10U	NOU	N1U	N2U	N3U
Size	10-32UNF	1/16NPT	1/8NPT	1/4NPT	3/8NPT

※ The unit of wrench size is inch (the code suffix is "U").

Thread	Metric thread (mm)			Taper pipe thread			Cartridge size (mm)	
Code	M3	M5	M6	O1	O2	O3	M6	M8
Size	M3 × 0.5	M5 × 0.8	M6 × 1	R1/8	R1/4	R3/8	M6 × 0.75	M8 × 0.75

※ R thread is same as BSPT

④ Color option , Packaging option

Code	Color option		Packaging option	
	No code	W	No code	C
Specification	Standard spec.	Light-gray spec.	Standard package	Clean-room package
Release-ring color	Black, White	Light-gray, White	④ : Selected color	Light-blue (※ 1), White
Resin body color	Black	Light-gray	④ : Selected color	Light-blue, Black

※ 1. When "W" is selected on ④ Color option, body color is light-gray.

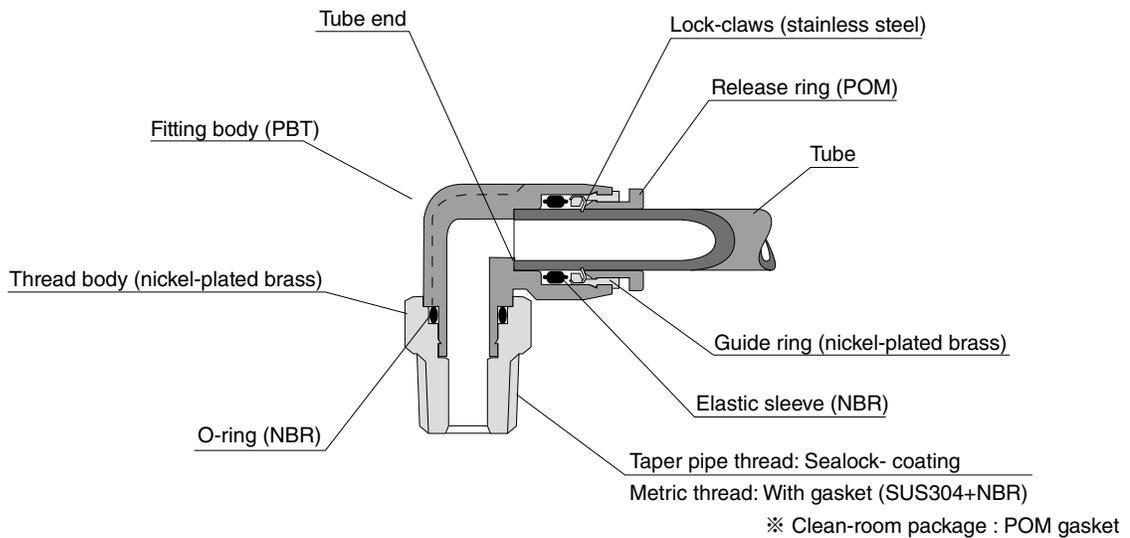
※ 2. Release-ring color is white for inch-size products.

※ 3. Imperial sizes – Clean room packaging comes with black resin body.

Specifications

Fluid medium	Air
Max. operating pressure	150psi (1.0MPa)
Max. vacuum	-29.5in. Hg (-100kPa)
Operating temp. range	32 ~ 140°F (0 ~ 60°C) (no freezing)

Construction (Elbow: PL)



- ※ M3 Thread: Thread body is nickel-plated free-cutting steel.
- ø1.8 fitting: Thread body is special stainless steel equivalent to SUS303.

⚠ Detailed Safety Instructions

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

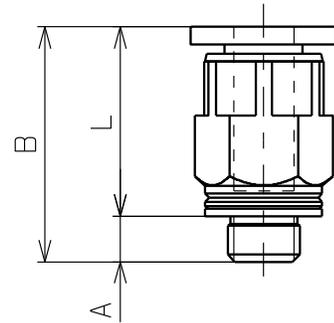
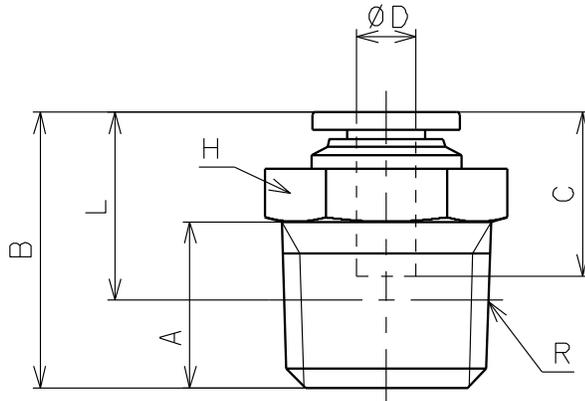
Caution (Clean-room package)

1.As for Push-In Fitting, the functional part where tube is inserted may slightly slide due to an internal pressure change and this may generate dusts. Avoid using the fitting in the clean room of ISO class from 1 to 5. Under the vibrating condition, check the amount of dust generated from the fitting and tubes by using actual facilities.



Straight

RoHS compliant



↑ unified thread

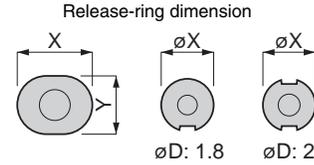
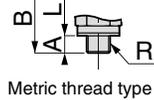
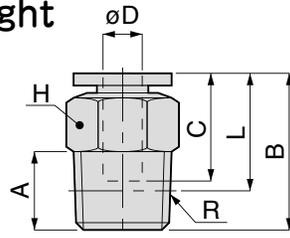
❖ **NPT and UNF thread**

unit: inch

Model	Tube O.D. φ D	R	A	B	L	C	Hex.	Orifice φ (mm)	Wt. (g)	CAD file name
PC1/8-U10MU	1/8	10-32UNF	0.12	0.61	0.50	0.43	5/16	2.0	3.2	PC1_8-U10MU
PC1/8-N0MU	1/8	1/16 NPT	0.31	0.70	0.54	0.43	7/16	2.0	7.3	PC1_8-N0MU
PC1/8-N1MU	1/8	1/8 NPT	0.31	0.61	0.45	0.43	7/16	2.0	7.6	PC1_8-N1MU
PC1/8-N2MU	1/8	1/4 NPT	0.43	0.72	0.49	0.43	9/16	2.0	16	PC1_8-N2MU
PC5/32-U10MU	5/32	10-32UNF	0.12	0.61	0.50	0.43	5/16	2.4	3.1	PC5_32-U10MU
PC5/32-N0MU	5/32	1/16 NPT	0.31	0.70	0.54	0.43	7/16	2.5	7.3	PC5_32-N0MU
PC5/32-N1MU	5/32	1/8 NPT	0.31	0.61	0.45	0.43	7/16	2.5	7.4	PC5_32-N1MU
PC5/32-N2MU	5/32	1/4 NPT	0.43	0.72	0.49	0.43	9/16	2.5	16	PC5_32-N2MU
PC1/4-U10MU	1/4	10-32UNF	0.12	0.63	0.52	0.45	7/16	2.4	5.2	PC1_4-U10MU
PC1/4-N0MU	1/4	1/16 NPT	0.31	0.78	0.62	0.45	7/16	3.5	7.1	PC1_4-N0MU
PC1/4-N1MU	1/4	1/8 NPT	0.31	0.74	0.58	0.45	7/16	4.6	7.7	PC1_4-N1MU
PC1/4-N2MU	1/4	1/4 NPT	0.43	0.74	0.51	0.45	9/16	4.6	14	PC1_4-N2MU
PC1/4-N3MU	1/4	3/8 NPT	0.47	0.78	0.54	0.45	11/16	4.6	27	PC1_4-N3MU
PC3-U10MU	3mm	10-32UNF	0.12	0.61	0.50	0.43	5/16	2.0	3.2	PC3-U10MU
PC3-N1MU	3mm	1/8 NPT	0.31	0.61	0.45	0.43	7/16	2.0	7.6	PC3-N1MU
PC4-U10MU	4mm	10-32UNF	0.12	0.61	0.50	0.43	5/16	2.4	3.1	PC4-U10MU
PC4-N1MU	4mm	1/8 NPT	0.31	0.61	0.45	0.43	7/16	2.5	7.4	PC4-N1MU
PC6-U10MU	6mm	10-32UNF	0.12	0.64	0.52	0.46	7/16	2.4	7.5	PC6-U10MU
PC6-N1MU	6mm	1/8 NPT	0.31	0.69	0.53	0.46	7/16	4.6	7.5	PC6-N1MU



Straight



❖ **Metric thread**

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	Tube end C	Hex. H	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name		
PC1/8-M3M ^④	1/8"	M3×0.5	2.5 [2.2]	15.1	12.6 [12.9]	10.9	8	9.8	7.8	0.9	2.5	PC1_8-M3M[C]		
PC1/8-M5M ^④		M5×0.8	3 [3.2]	15.6	12.6 [12.4]							PC1_8-M5M[C]		
PC1/8-M6M ^④		M6×1	3.9 [4]	16.6	12.7 [12.6]		PC1_8-M6M[C]							
PC1/8-01M ^④		R1/8	8	15.6	11.6		10					PC1_8-01M		
PC5/32-M3M ^④	5/32"	M3×0.5	2.5 [2.2]	15.1	12.6 [12.9]	10.9	8	9.8	7.8	0.9	2.4	PC5_32-M3M[C]		
PC5/32-M5M ^④		M5×0.8	3 [3.2]	15.6	12.6 [12.4]							PC5_32-M5M[C]		
PC5/32-M6M ^④		M6×1	3.9 [4]	16.6	12.7 [12.6]		PC5_32-M6M[C]							
PC5/32-01M ^④		R1/8	8	15.6	11.6		10					PC5_32-01M		
PC5/32-02M ^④		R1/4	11	17.3	11.3	14				6.1	15	PC5_32-02M		
PC1/4-M5M ^④	1/4"	M5×0.8	3 [3.2]	16.8	13.8 [13.6]	11.4	10	11.8	9.8	3.6	4.2	PC1_4-M5M[C]		
PC1/4-M6M ^④		M6×1	4	17.8	13.8							5.7	4.6	PC1_4-M6M[C]
PC1/4-M7M ^④		M7×1	Ask us for the dimensions									Non-standard item		
PC1/4-01M ^④		R1/8	8	18.4	14.4							14.1	6	PC1_4-01M
PC1/4-02M ^④		R1/4	11	17.9	11.9							14	13	PC1_4-02M
PC1/4-03M ^④	R3/8	12	19.9	13.6	17	26	PC1_4-03M							
PC180-M3M ^④	1.8	M3×0.5	2.5 [2.2]	12.1	9.6 [9.9]	8.4	5	4.8	-	0.7	1	PC180-M3M[C]		
PC180-M5M ^④		M5×0.8	3 [3.2]	11.8	8.8 [8.6]		7					2.3	PC180-M5M[C]	
PC180-01M ^④		R1/8	8	15.4	11.4		10					7.4	PC180-01M	
PC2-M3M ^④	2	M3×0.5	2.5 [2.2]	12.1	9.6 [9.9]	8.4	5	4.8	-	0.7	0.9	PC2-M3M[C]		
PC2-M5M ^④		M5×0.8	3 [3.2]	11.8	8.8 [8.6]		7					2.2	PC2-M5M[C]	
PC2-01M ^④		R1/8	8	15.4	11.4		10					7.4	PC2-01M	
PC3-M3M ^④	3	M3×0.5	2.5 [2.2]	13.1	10.6 [10.9]	10.9	5.5	9.8	7.8	0.7	1.1	PC3-M3M[C]		
PC3-M5M ^④		M5×0.8	3 [3.2]	15.6	12.6 [12.4]		8					3.4	PC3-M5M[C]	
PC3-M6M ^④		M6×1	3.9 [4]	16.6	12.7 [12.6]		10					3.7	PC3-M6M[C]	
PC3-01M ^④		R1/8	8	15.6	11.6		10					6.7	PC3-01M	
PC4-M3M ^④	4	M3×0.5	2.5 [2.2]	15.1	12.6 [12.9]	10.9	8	9.8	7.8	0.9	2.4	PC4-M3M[C]		
PC4-M5M ^④		M5×0.8	3 [3.2]	15.6	12.6 [12.4]							3.8	3.2	PC4-M5M[C]
PC4-M6M ^④		M6×1	3.9 [4]	16.6	12.7 [12.6]							6.3	3.6	PC4-M6M[C]
PC4-01M ^④		R1/8	8	15.6	11.6							10	6.6	PC4-01M
PC4-02M ^④		R1/4	11	17.8	11.8							14	15	PC4-02M
PC6-M5M ^④	6	M5×0.8	3 [3.2]	17	14 [13.8]	11.7	10	11.8	9.8	3.6	4.5	PC6-M5M[C]		
PC6-M6M ^④		M6×1	4	18	14							6.3	4.8	PC6-M6M[C]
PC6-01M ^④		R1/8	8	17.6	13.6							6	6	PC6-01M
PC6-02M ^④		R1/4	11	18.1	12.1							14	13	PC6-02M
PC6-03M ^④		R3/8	12	20.1	13.8							17	27	PC6-03M

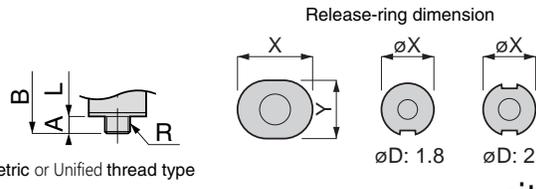
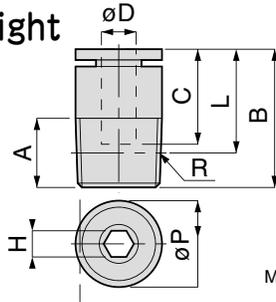
※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

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

※ 3. Dimensions in [] are for clean-room package products



Inner Hex. Straight



❖ NPT and UNF thread

unit: inch

Model	Tube O.D. φD	R	A	B	L	C	Hex P	φP	Orifice φ(mm)	Wt. (g)	CAD file name
POC1/8-U10MU	1/8	10-32UNF	0.12	0.61	0.50	0.43	5/64	0.31	2.0	3.4	POC1_8-U10MU
POC5/32-U10MU	5/32	10-32UNF	0.12	0.61	0.50	0.43	3/32	0.31	2.5	3	POC5_32-U10MU
POC5/32-N1MU	5/32	1/8 NPT	0.31	0.62	0.46	0.43	3/32	0.39	2.5	6.6	POC5_32-N1MU
POC1/4-U10MU	1/4	10-32UNF	0.12	0.63	0.52	0.45	3/32	0.39	2.5	3.2	POC1_4-U10MU
POC1/4-N0MU	1/4	1/16 NPT	0.31	0.77	0.61	0.45	5/32	0.39	4.2	4.2	POC1_4-N0MU
POC1/4-N1MU	1/4	1/8 NPT	0.31	0.72	0.56	0.45	5/32	0.39	4.2	5.9	POC1_4-N1MU
POC3/16-U10MU	3/16	10-32UNF	Ask us for the dimensions								
POC3/16-N1MU	3/16	1/8 NPT									

❖ Metric thread

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	Tube end C	Hex. H	øP	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name	
POC1/8-M3M④	1/8"	M3×0.5	2.5 [2.2]	15.1	12.6 [12.9]	10.9	1.5	8	9.8	7.8	1.8	2.3	POC1_8-M3M[C]	
POC1/8-M5M④		M5×0.8	3 [3.2]	15.6	12.6 [12.4]		2				3.3	3	POC1_8-M5M[C]	
POC1/8-M6M④		M6×1	3.9 [4]	16.6	12.7 [12.6]		9 [8]				3.1	3.6	POC1_8-M6M[C]	
POC5/32-M3M④	5/32"	M3×0.5	2.5 [2.2]	15.1	12.6 [12.9]	10.9	1.5	8	9.8	7.8	1.8	2.2	POC5_32-M3M[C]	
POC5/32-M5M④		M5×0.8	3 [3.2]	15.6	12.6 [12.4]		2.5				5.1	3	POC5_32-M5M[C]	
POC5/32-M6M④		M6×1	3.9 [4]	16.6	12.7 [12.6]		9 [8]				7	3.3	POC5_32-M6M[C]	
POC5/32-01M④		R1/8	8	15.8	11.8		3				10	7.4	6.2	POC5_32-01M
POC1/4-M5M④	1/4"	M5×0.8	3 [3.2]	17.1	14.1 [13.9]	11.4	2.5	9.8	11.8	9.8	4.8	3.8	POC1_4-M5M[C]	
POC1/4-M6M④		M6×1	4	17.7	13.7		3				7.3	4.1	POC1_4-M6M[C]	
POC1/4-M7M④		M7×1	Ask us for the dimensions		13.7		Ask us for the details				Non - standard item			
POC1/4-01M④		R1/8	8	17.7			4				10	5.2	12	POC1_4-01M
POC180-M3M④	1.8	M3×0.5	2.5 [2.2]	12.1	9.6 [9.9]	8.4	1.3	5	4.8	-	1	0.9	POC180-M3M[C]	
POC2-M3M④	2	M3×0.5	2.5 [2.2]	12.1	9.6 [9.9]	8.4	1.3	5	4.8	-	1	0.8	POC2-M3M[C]	
POC3-M3M④	3	M3×0.5	2.5 [2.2]	15.1	12.6 [12.9]	10.9	1.5	8	9.8	7.8	1.9	2.3	POC3-M3M[C]	
POC3-M5M④		M5×0.8	3 [3.2]	15.6	12.6 [12.4]		2				2.8	3.2	POC3-M5M[C]	
POC3-M6M④		M6×1	3.9 [4]	16.6	12.7 [12.6]		9 [8]				3	3.5	POC3-M6M[C]	
POC4-M3M④	4	M3×0.5	2.5 [2.2]	15.1	12.6 [12.9]	10.9	1.5	8	9.8	7.8	1.8	2.2	POC4-M3M[C]	
POC4-M5M④		M5×0.8	3 [3.2]	15.6	12.6 [12.4]		2.5				5.1	3	POC4-M5M[C]	
POC4-M6M④		M6×1	3.9 [4]	16.6	12.7 [12.6]		9 [8]				7	3.3	POC4-M6M[C]	
POC4-01M④		R1/8	8	15.8	11.8		3				10	7.4	6.2	POC4-01M
POC6-M5M④	6	M5×0.8	3 [3.2]	17.5	14.5 [14.3]	11.7	2.5	9.8	11.8	9.8	5.2	4.4	POC6-M5M[C]	
POC6-M6M④		M6×1	4	18	14		3				7.1	4.7	POC6-M6M[C]	
POC6-M7M④		M7×1	5.5	20.9	15.4		4				13	8.4	Non-standard item	
POC6-01M④		R1/8	8	17.9	13.9		4				13	5.6	POC6-01M	

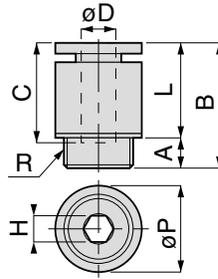
※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

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

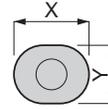
※ 3. Dimensions in [] are for clean-room package products

PCC Mini Cartridge

RoHS compliant



Release-ring dimension



❖ Metric thread

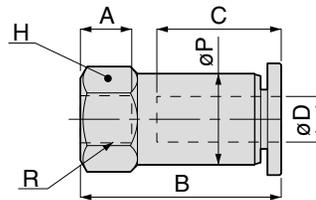
Unit : mm

Model code	Tube O.D. øD	R	A	B	L	Tube end C	Hex. H	øP	X	Y	Effective area (mm ²)	Weight (g)	CAD file name
PCC1/8-M6M④	1/8"	M6 × 0.75	3	14	11	10.9	2	8	9.8	7.8	3	2.7	PCC1_8-M6M
PCC4-M6M④	4	M6 × 0.75	3	14	11	10.9	2.5	8	9.8	7.8	5.1	2.6	PCC4-M6M
PCC4-M8M④		M8 × 0.75	3.4		10.6		3				10	7.3	4.9
PCC3-M6M④	3	M6 × 0.75	3	14	11	10.9	2	8	9.8	7.8	2.9	2.7	PCC3-M6M
PCC6-M8M④	6	M8 × 0.75	3.4	14.8	11.4	11.7	4	10	11.8	9.8	12.8	3.6	PCC6-M8M

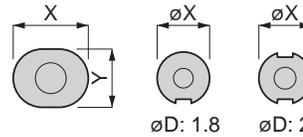
※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PCF Mini Female Straight

RoHS compliant



Release-ring dimension



❖ UNF thread

unit:

Model	Tube O.D. øD	M	A	B	øP	C	Hex.	Orifice ø (mm)	Weight (g)	CAD file name
PCF1/8-U10MU	1/8	10-32UNF	0.18	0.67	0.31	0.43	5/16	2.0	4.3	PCF1_8-U10MU
PCF5/32-U10MU	5/32	10-32UNF	0.18	0.67	0.31	0.43	5/16	2.0	4.2	PCF5_32-U10MU
PCF1/4-U10MU	1/4	10-32UNF	0.14	0.65	0.39	0.45	7/16	3.9	6.7	PCF1_4-U10MU
PCF4-U10MU	4mm	10-32UNF	0.18	0.67	0.31	0.43	5/16	2.0	4.2	n/a

❖ Metric thread

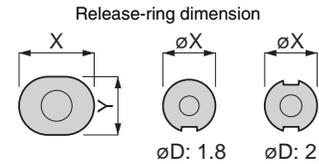
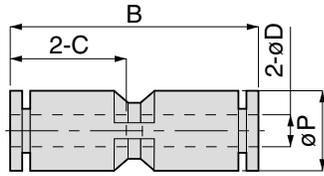
Unit : mm

Model code	Tube O.D. øD	R	A	B	øP	Tube end C	Hex. H	X	Y	Effective area (mm ²)	Weight (g)	CAD file name
PCF1/8-M3M④	1/8"	M3 × 0.5	4.5	15.4	8	10.9	8	9.8	7.8	3.5	3.7	PCF1_8-M3M
PCF1/8-M5M④		M5 × 0.8		17.6								
PCF5/32-M3M④	5/32"	M3 × 0.5	4.5	15.4	8	10.9	8	9.8	7.8	3.5	3.6	PCF5_32-M3M
PCF5/32-M5M④		M5 × 0.8		17.6								
PCF1/4-M5M④	1/4"	M5 × 0.8	5.1	16.5	10	11.4	10	11.8	9.8	11.1	5.8	PCF1_4-M5M
PCF180-M3M④	1.8	M3 × 0.5	4	13.9	5	8.4	5	4.8	-	0.9	1.4	PCF180-M3M
PCF2-M3M④	2	M3 × 0.5	4	13.9	5	8.4	5	4.8	-	0.9	1.4	PCF2-M3M
PCF3-M3M④	3	M3 × 0.5	4.4	13.8	5.5	9.4	5.5	7	6	1.4	1.5	PCF3-M3M
PCF3-M5M④		M5 × 0.8	4.5	15.4	8		8			2.8	4.2	PCF3-M5M
PCF4-M3M④	4	M3 × 0.5	4.5	15.4	8	10.9	8	9.8	7.8	3.5	3.6	PCF4-M3M
PCF4-M5M④		M5 × 0.8		17.6						2.6	4.3	PCF4-M5M
PCF6-M5M④	6	M5 × 0.8	5	16.7	10	11.7	10	11.8	9.8	9.1	6.1	PCF6-M5M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PU Mini Union Straight

RoHS compliant



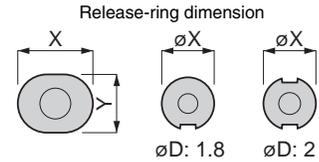
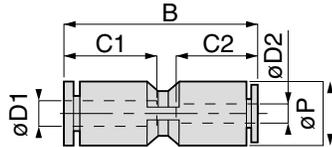
Unit : mm

Model code	Tube O.D. øD	B	øP	Tube end C	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name
PU1/8M④	1/8"	22.7	8	11	9.8	7.8	2.6	2.1	PU1_8M
PU5/32M④	5/32"	22.7	8	11	9.8	7.8	5.4	3.1	PU5_32M
PU1/4M④	1/4"	24.8	10.4	11.4	11.8	9.8	11.5	3.1	PU1_4M
PU180M④	1.8	18.5	6	8.4	4.8	—	0.6	1.1	PU180M
PU2M④	2	18.5	6	8.4	4.8	—	0.6	1.1	PU2M
PU3M④	3	19.6	6	9.3	7	6	2.7	1.1	PU3M
PU4M④	4	22.7	8	11	9.8	7.8	5.4	2	PU4M
PU6M④	6	24.4	10.4	11.6	11.8	9.8	11	3.1	PU6M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PG Mini Unequal Union Straight

RoHS compliant



Unit : mm

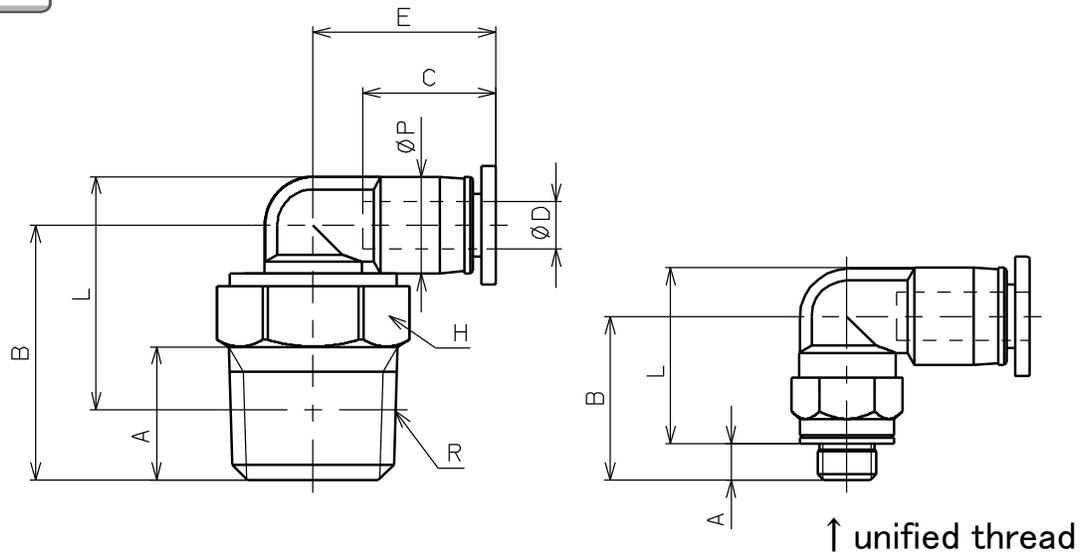
Model code	Tube O.D. øD1	Tube O.D. øD2	B	øP	Tube end C1	Tube end C2	øD1 release-ring		øD2 release-ring		Effective area (mm ²)	Weight (g)	CAD file name		
							X	Y	X(øX)	Y					
PG5/32-1/8M④	5/32"	1/8"	22.7	8	11	11	9.8	7.8	9.8	7.8	2.4	2.1	PG5_32-1_8M		
PG1/4-1/8M④	1/4"	1/8"	24.2	10.4	11.4	11	11.8	9.8	9.8	7.8	4.7	3	PG1_4-1_8M		
PG1/4-5/32M④		5/32"									3.8	3.9	PG1_4-5_32M		
PG1/4-6M④		6									Ask us for the dimensions		11.8	9.8	Ask us for the details
PG3/16-1/8M④	3/16"	1/8"	Ask us for the dimensions						9.8	7.8	Ask us for the details				
PG3-180M④	3	1.8	19.1	6	9.3	8.4	7	6	4.8	-	0.9	1.1	PG3-180M		
PG3-2M④		2									1	PG3-2M			
PG4-180M④	4	1.8	22.4	8	11	8.4	9.8	7.8	4.8	-	0.7	1.8	PG4-180M		
PG4-2M④		2											PG4-2M		
PG4-3M④		3											2.4	2.1	PG4-3M
PG4-1/8M④		1/8"													PG4-1_8M
PG6-1/8M④	6	1/8"	24	10.4	11.6	11	11.8	9.8	9.8	7.8	2.6	3	PG6-1_8M		
PG6-3M④		3									5.6		PG6-3M		
PG6-4M④		4									PG6-4M				

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package.

❖ Ask us for the dimensions of PG1/4-6M or PG3/16-1/8M

PL
Mini **Elbow**

RoHS compliant

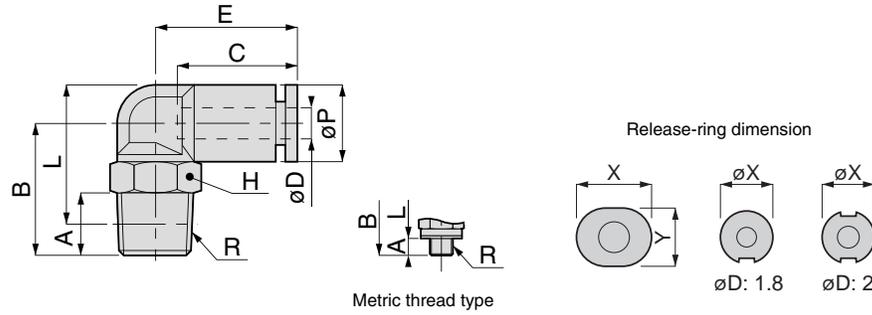


❖ NPT and UNF thread

unit: inch

Model	Tube O.D. φD	R	A	B	L	φP	C	E	Hex.	Orifice φ (mm)	Wt. (g)	CAD file name
PL1/8-U10MU	1/8	10-32UNF	0.12	0.53	0.57	0.31	0.43	0.59	5/16	2.4	3.4	PL1_8-U10MU
PL1/8-N0MU	1/8	1/16 NPT	0.31	0.73	0.72	0.31	0.43	0.59	7/16	2.5	7.5	PL1_8-N0MU
PL1/8-N1MU	1/8	1/8 NPT	0.31	0.63	0.63	0.31	0.43	0.59	7/16	2.5	7	PL1_8-N1MU
PL1/8-N2MU	1/8	1/4 NPT	0.43	0.83	0.76	0.31	0.43	0.59	9/16	2.5	18	PL1_8-N2MU
PL5/32-U10MU	5/32	10-32UNF	0.12	0.53	0.57	0.31	0.43	0.59	5/16	2.4	3.3	PL5_32-U10MU
PL5/32-N0MU	5/32	1/16 NPT	0.31	0.73	0.72	0.31	0.43	0.59	7/16	2.5	7.5	PL5_32-N0MU
PL5/32-N1MU	5/32	1/8 NPT	0.31	0.63	0.63	0.31	0.43	0.59	7/16	2.5	7	PL5_32-N1MU
PL5/32-N2MU	5/32	1/4 NPT	0.43	0.83	0.76	0.31	0.43	0.59	9/16	3.0	13	PL5_32-N2MU
PL1/4-U10MU	1/4	10-32UNF	0.12	0.57	0.66	0.41	0.45	0.64	5/16	2.4	3.9	PL1_4-U10MU
PL1/4-N0MU	1/4	1/16 NPT	0.31	0.77	0.81	0.41	0.45	0.64	7/16	3.5	8	PL1_4-N0MU
PL1/4-N1MU	1/4	1/8 NPT	0.31	0.67	0.71	0.41	0.45	0.64	7/16	4.0	7.5	PL1_4-N1MU
PL1/4-N2MU	1/4	1/4 NPT	0.43	0.87	0.85	0.41	0.45	0.64	9/16	4.0	18	PL1_4-N2MU
PL1/4-N3MU	1/4	3/8 NPT	0.47	0.92	0.88	0.41	0.45	0.64	11/16	4.0	22	PL1_4-N3MU
PL3-U10MU	3mm	10-32UNF	0.12	0.53	0.57	0.31	0.43	0.59	5/16	2.4	3.4	PL3-U10MU
PL3-N1MU	3mm	1/8 NPT	0.31	0.63	0.63	0.31	0.43	0.59	7/16	2.5	7	PL3-N1MU
PL4-U10MU	4mm	10-32UNF	0.12	0.53	0.57	0.31	0.43	0.59	5/16	2.4	3.3	PL4-U10MU
PL4-N1MU	4mm	1/8 NPT	0.31	0.63	0.63	0.31	0.43	0.59	7/16	2.5	6.9	PL4-N1MU
PL6-U10MU	6mm	10-32UNF	0.12	0.57	0.66	0.41	0.46	0.63	5/16	2.4	4	PL6-U10MU
PL6-N1MU	6mm	1/8 NPT	0.31	0.67	0.71	0.41	0.46	0.63	7/16	4.0	7.6	PL6-N1MU

PL Mini Elbow
RoHS compliant



❖ Metric thread

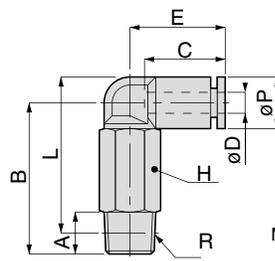
Unit : mm

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							
PL1/8-M3M ^④	1/8"	M3×0.5	2.5 [2.2]	14	15.5 [15.8]	8	11	15.1	8	9.8	7.8	0.9	3.1	PL1_8-M3M[C]							
PL1/8-M5M ^④		M5×0.8	3 [3.2]	13.5	14.5 [14.3]									PL1_8-M5M[C]							
PL1/8-M6M ^④		M6×1	3.9 [4]	14.5	14.6 [14.5]				PL1_8-M6M[C]												
PL1/8-01M ^④		R1/8	8	16	16				10					2	6.3	PL1_8-01M					
PL5/32-M3M ^④	5/32"	M3×0.5	2.5 [2.2]	14	15.5 [15.8]	8	11	15.1	8	9.8	7.8	1.3	3	PL5_32-M3M[C]							
PL5/32-M5M ^④		M5×0.8	3 [3.2]	13.5	14.5 [14.3]									PL5_32-M5M[C]							
PL5/32-M6M ^④		M6×1	3.9 [4]	14.5	14.6 [14.5]				PL5_32-M6M[C]												
PL5/32-01M ^④		R1/8	8	16	16				10					3.2	6.2	PL5_32-01M					
PL5/32-02M ^④		R1/4	11	21	19				14					4.9	13	PL5_32-02M					
PL1/4-M5M ^④	1/4"	M5×0.8	3 [3.2]	14.5	16.8 [16.6]				8			3	4.1	PL1_4-M5M[C]							
PL1/4-M6M ^④		M6×1	3.9 [4]	15.5	16.9 [16.8]									3.7	4.2	PL1_4-M6M[C]					
PL1/4-M7M ^④		M7×1	Ask us for the dimensions																		
PL1/4-01M ^④		R1/8	8	17	18.3				10.5					11.4	16.2	10	11.8	9.8	8.4	6.8	PL1_4-01M
PL1/4-02M ^④		R1/4	11	22.3	21.5											14				13	PL1_4-02M
PL1/4-03M ^④		R3/8	12	23.3	22.2											17			8.6	21	PL1_4-03M
PL180-M3M ^④	1.8	M3×0.5	2.5 [2.2]	12	12.5 [12.8]	6	8.4	10.3	5.5	4.8	-	0.5	1.4	PL180-M3M[C]							
PL180-M5M ^④		M5×0.8	3 [3.2]	13.5	13.5 [13.3]				8					0.7	2.8	PL180-M5M[C]					
PL180-01M ^④		R1/8	8	16	15				10					5.6	PL180-01M						
PL2-M3M ^④	2	M3×0.5	2.5 [2.2]	12	12.5 [12.8]	6	8.4	10.3	5.5	4.8	-	0.5	1.4	PL2-M3M[C]							
PL2-M5M ^④		M5×0.8	3 [3.2]	13.5	13.5 [13.3]				8					0.7	2.7	PL2-M5M[C]					
PL2-01M ^④		R1/8	8	16	15				10					5.5	PL2-01M						
PL3-M3M ^④	3	M3×0.5	2.5 [2.2]	12	12.5 [12.8]	6	9.3	10.8	5.5	7	6	1.8	2.8	PL3-M3M[C]							
PL3-M5M ^④		M5×0.8	3 [3.2]	13.5	13.5 [13.3]				8					3.1	PL3-M5M[C]						
PL3-M6M ^④		M6×1	3.9 [4]	14.5	13.6 [13.5]										PL3-M6M[C]						
PL3-01M ^④		R1/8	8	16	16				8					11	15.1	10	9.8	7.8	2.4	6.3	PL3-01M
PL4-M3M ^④	4	M3×0.5	2.5 [2.2]	14	15.5 [15.8]	8	11	15.1	8	9.8	7.8	1.3	3	PL4-M3M[C]							
PL4-M5M ^④		M5×0.8	3 [3.2]	13.5	14.5 [14.3]									2.2	3.4	PL4-M5M[C]					
PL4-M6M ^④		M6×1	3.9 [4]	14.5	14.6 [14.5]				3.9					3.7	PL4-M6M[C]						
PL4-01M ^④		R1/8	8	16	16				10					4.8	6.2	PL4-01M					
PL4-02M ^④		R1/4	11	21	19				14					4.9	13	PL4-02M					
PL6-M5M ^④		6	M5×0.8	3 [3.2]	14.5				16.8 [16.6]								8	11.8	9.8	3.5	4.1
PL6-M6M ^④	M6×1		3.9 [4]	15.5	16.9 [16.8]	3.6	4.4	PL6-M6M[C]													
PL6-01M ^④	R1/8		8	17	18.3	10	8.5	6	PL6-01M												
PL6-02M ^④	R1/4		11	22.3	21.5	14	8.4	13	PL6-02M												
PL6-03M ^④	R3/8		12	23.3	22.2	17	8.6	21	PL6-03M												

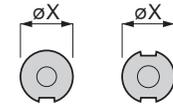
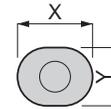
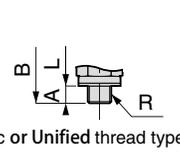
※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

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

※ 3. Dimensions in [] are for clean-room package products



Release-ring dimension



ØD: 1.8 ØD: 2

unit: inch

❖ NPT and UNF thread

Mode I	Tube O.D. ϕD	R	A	B	L	ϕP	C	E	Hex. H	Orifice ϕ (mm)	Wt. (g)	CAD file name
PLL1/8-U10MU	1/8	10-32UNF	0.12	0.98	1.02	0.31	0.43	0.59	5/16	2.4	8	PLL1_8-U10MU
PLL1/8-NOMU	1/8	1/16 NPT	0.31	1.12	1.12	0.31	0.43	0.59	7/16	2.5	16	PLL1_8-NOMU
PLL1/8-N1MU	1/8	1/8 NPT	0.31	1.12	1.12	0.31	0.43	0.59	7/16	2.5	16	PLL1_8-N1MU
PLL5/32-U10MU	5/32	10-32UNF	0.12	0.98	1.02	0.31	0.43	0.59	5/16	2.4	7.9	PLL5_32-U10MU
PLL5/32-NOMU	5/32	1/16 NPT	0.31	1.12	1.12	0.31	0.43	0.59	7/16	2.5	16	PLL5_32-NOMU
PLL5/32-N1MU	5/32	1/8 NPT	0.31	1.12	1.12	0.31	0.43	0.59	7/16	2.5	16	PLL5_32-N1MU
PLL5/32-N2MU	5/32	1/4 NPT	0.43	1.32	1.25	0.31	0.43	0.59	9/16	3.0	27	PLL5_32-N2MU
PLL1/4-U10MU	1/4	10-32UNF	0.12	1.02	1.11	0.41	0.45	0.64	5/16	2.4	8.5	PLL1_4-U10MU
PLL1/4-NOMU	1/4	1/16 NPT	0.31	1.26	1.31	0.41	0.45	0.64	7/16	3.5	18	PLL1_4-NOMU
PLL1/4-N1MU	1/4	1/8 NPT	0.31	1.16	1.20	0.41	0.45	0.64	7/16	4.0	17	PLL1_4-N1MU
PLL1/4-N2MU	1/4	1/4 NPT	0.43	1.37	1.35	0.41	0.45	0.64	9/16	4.0	27	PLL1_4-N2MU
PLL1/4-N3MU	1/4	3/8 NPT	0.47	1.41	1.37	0.41	0.45	0.64	11/16	4.0	43	PLL1_4-N3MU

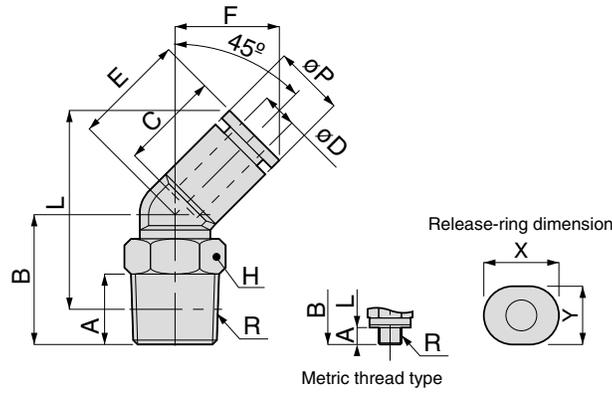
❖ Metric thread

Unit : mm

Model code	Tube O.D. ϕD	R	A	B	L	ϕP	Tube end C	E	Hex. H	X (ϕX)	Y	Effective area (mm ²)	Weight (g)	CAD file name		
PLL1/8-M3M④	1/8	M3×0.5	2.5 [2.2]	23	24.5 [24.8]	8	11	15.1	8	9.8	7.8	0.9	6.8	PLL1_8-M3M(C)		
PLL1/8-M5M④		M5×0.8	3 [3.2]	25	26 [25.8]				8			2.5		PLL1_8-M5M(C)		
PLL1/8-M6M④		M6×1	3.9 [4]	26	26.1 [26]				10			2.1		PLL1_8-M6M(C)		
PLL1/8-01M④		R1/8	8	28.5	28.5				10			2.3		13	PLL1_8-01M	
PLL5/32-M3M④	5/32	M3×0.5	2.5 [2.2]	23	24.5 [24.8]	8	11	15.1	8	9.8	7.8	0.9	6.8	PLL5_32-M3M(C)		
PLL5/32-M5M④		M5×0.8	3 [3.2]	25	26 [25.8]				8			3		8.3	PLL5_32-M5M(C)	
PLL5/32-M6M④		M6×1	3.9 [4]	26	26.1 [26]				10			3.7		8.4	PLL5_32-M6M(C)	
PLL5/32-01M④		R1/8	8	28.5	28.5				10			4.2		14	PLL5_32-01M	
PLL5/32-02M④		R1/4	11	33.5	31.5				14			4.9		26	PLL5_32-02M	
PLL1/4-M5M④	1/4	M5×0.8	3 [3.2]	26	28.3 [28.1]	10.5	11.4	16.2	8	11.8	9.8	3.5	8.8	PLL1_4-M5M(C)		
PLL1/4-M6M④		M6×1	3.9 [4]	27	28.4 [28.3]				14			3.6		8.8	PLL1_4-M6M(C)	
PLL1/4-01M④		R1/8	8	29.5	30.8				10			8.4		14	14	PLL1_4-01M
PLL1/4-02M④		R1/4	11	34.8	34				14			8.3		26	14	PLL1_4-02M
PLL1/4-03M④		R3/8	12	35.8	34.7				17			8.3		40	17	PLL1_4-03M
PLL180-M3M④	1.8	M3×0.5	2.5 [2.2]	19	19.5 [19.8]	6	8.4	10.3	5.5	4.8	-	0.5	2.7	PLL180-M3M(C)		
PLL180-M5M④		M5×0.8	3 [3.2]	25	25 [24.8]				8			0.6		7.6	PLL180-M5M(C)	
PLL2-M3M④	2	M3×0.5	2.5 [2.2]	19	19.5 [19.8]	6	8.4	10.3	5.5	4.8	-	0.5	2.7	PLL2-M3M(C)		
PLL2-M5M④		M5×0.8	3 [3.2]	25	25 [24.8]				8			0.6		7.6	PLL2-M5M(C)	
PLL3-M3M④	3	M3×0.5	2.5 [2.2]	19	19.5 [19.8]	6	9.3	10.8	5.5	7	6	0.6	2.8	PLL3-M3M(C)		
PLL3-M5M④		M5×0.8	3 [3.2]	25	25 [24.8]				8			1.8		7.7	PLL3-M5M(C)	
PLL3-M6M④		M6×1	3.9 [4]	26	25.1 [25]				8			2.1		7.7	PLL3-M6M(C)	
PLL3-01M④		R1/8	8	28.5	28.5				8			11		15.1	10	9.8
PLL4-M3M④	4	M3×0.5	2.5 [2.2]	23	24.5 [24.8]	8	11	15.1	8	9.8	7.8	0.9	6.8	PLL4-M3M(C)		
PLL4-M5M④		M5×0.8	3 [3.2]	25	26 [25.8]				8			3		8.3	PLL4-M5M(C)	
PLL4-M6M④		M6×1	3.9 [4]	26	26.1 [26]				10			3.7		8.4	PLL4-M6M(C)	
PLL4-01M④		R1/8	8	28.5	28.5				10			4.2		14	PLL4-01M	
PLL4-02M④		R1/4	11	33.5	31.5				14			4.9		26	PLL4-02M	
PLL6-M5M④	6	M5×0.8	3 [3.2]	26	28.3 [28.1]	10.5	11.6	16	8	11.8	9.8	3.3	9	PLL6-M5M(C)		
PLL6-M6M④		M6×1	3.9 [4]	27	28.4 [28.3]				8			3.7		8.4	PLL6-M6M(C)	
PLL6-01M④		R1/8	8	29.5	30.8				10			7.6		14	PLL6-01M	
PLL6-02M④		R1/4	11	34.8	34				14			8.3		26	PLL6-02M	
PLL6-03M④		R3/8	12	35.8	34.7				17			8.3		40	PLL6-03M	

PLH Mini 45° Elbow

RoHS compliant



❖ Metric thread

Metric thread type

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	øP	Tube end C	E	F	Hex. H	X	Y	Effective area (mm ²)	Weight (g)	CAD file name
PLH3-M3M④	3	M3×0.5	2.5 [2.2]	12.8	22.3 [22.6]	8	11	12.2	12	8	9.8	7.8	0.8	2.9	PLH3-M3M
PLH3-M5M④		M5×0.8	3 [3.2]	12.3	21.3 [21.1]								1.9	3.3	PLH3-M5M
PLH4-M3M④	4	M3×0.5	2.5 [2.2]	12.8	22.3 [22.6]	8	11	12.2	12	8	9.8	7.8	1	2.8	PLH4-M3M
PLH4-M5M④		M5×0.8	3 [3.2]	12.3	21.3 [21.1]								2.9	3.3	PLH4-M5M
PLH4-M6M④		M6×1	3.9	13.3	21.4								4	3.6	PLH4-M6M
PLH4-01M④		R1/8	8	14.8	22.8					10	6.1	PLH4-01M			
PLH6-M5M④	6	M5×0.8	3 [3.2]	14.1	23.9 [23.7]	10.5	11.6	12.3	12.8	8	11.8	9.8	3.6	3.9	PLH6-M5M
PLH6-M6M④		M6×1	3.9	15.1	24					10			4.2	PLH6-M6M	
PLH6-01M④		R1/8	8	16.6	25.4					10			6.8	PLH6-01M	
PLH6-02M④		R1/4	11	21.6	28.4					14			18	PLH6-02M	

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

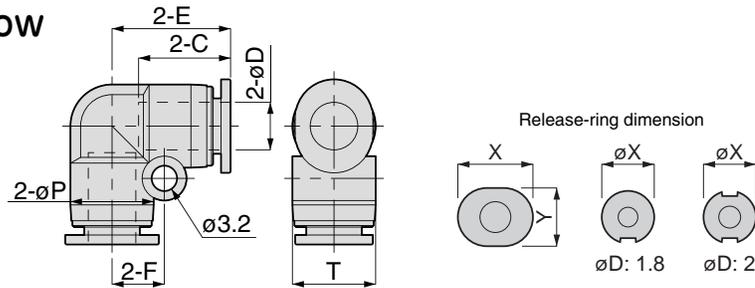
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 3. Dimensions in [] are for clean-room package products

※ 4. Visit PISCO website for CAD data of clean-room package products.

PV Mini Union Elbow

RoHS compliant



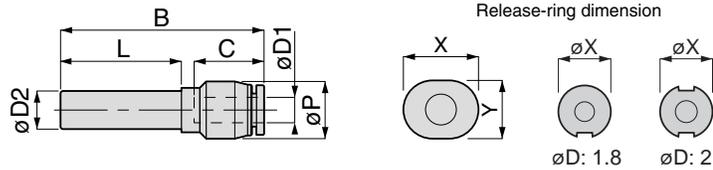
Unit : mm

Model code	Tube O.D. øD	øP	Tube end C	E	F	T	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name
PV1/8M④	1/8"	8	11	13.1	5.6	8	9.8	7.8	2.1	2.4	PV1_8M
PV5/32M④	5/32"	8	11	13.1	5.6	8	9.8	7.8	4.8	2.3	PV5_32M
PV1/4M④	1/4"	10.5	11.4	15.2	6.6	10.5	11.8	9.8	10.7	3.4	PV1_4M
PV180M④	1.8	6	8.4	10.3	4.5	6	4.8	—	0.7	1.2	PV180M
PV2M④	2	6	8.4	10.3	4.5	6	4.8	—	0.7	1.1	PV2M
PV3M④	3	6	9.3	10.8	4.5	6	7	6	2.3	1.2	PV3M
PV4M④	4	8	11	13.1	5.6	8	9.8	7.8	4.8	2.3	PV4M
PV6M④	6	10.5	11.6	15	6.6	10.5	11.8	9.8	9	3.6	PV6M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PGJ Mini Unequal Plug-in Straight (Reducer/Expander)

RoHS compliant



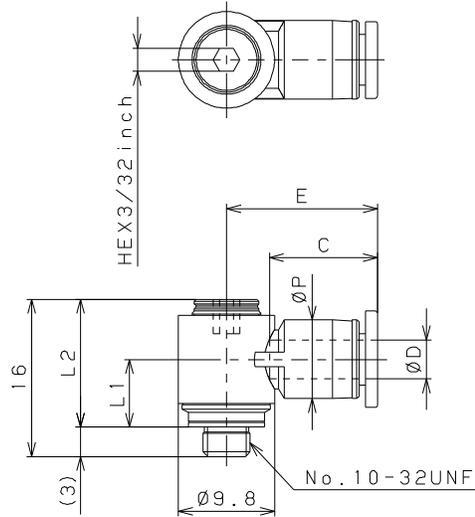
Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	L	øP	Tube end C	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name
PGJ1/8-5/32M④	5/32"	1/8"	31	17	9	11	9.8	7.8	1.2	1.3	PGJ1_8-5_32M
PGJ1/8-1/4M④	1/4"		31.6		10.5	11.4	11.8	9.8		1.7	PGJ1_8-1_4M
PGJ5/32-1/8M④	1/8"	5/32"	32	18	9	11	9.8	7.8	2.5	1.5	PGJ5_32-1_8M
PGJ5/32-1/4M④	1/4"		32.6		10.5	11.4	11.8	9.8	3.7	1.7	PGJ5_32-1_4M
PGJ3/16-1/8M④	1/8"	3/16"	34	21	9	11	9.8	7.8	2.5	1.6	PGJ3_16-1_8M
PGJ3/16-5/32M④	5/32"			20.5					3.4	1.5	PGJ3_16-5_32M
PGJ3/16-1/4M④	1/4"		34.6	20.5	10.5	11.4	11.8	9.8	5	1.9	PGJ3_16-1_4M
PGJ1/4-1/8M④	1/8"	1/4"	35.5	22.5	9	11	9.8	7.8	2.5	1.8	PGJ1_4-1_8M
PGJ1/4-5/32M④	5/32"								3.4	1.7	PGJ1_4-5_32M
PGJ1/4-6M④	6								35.9	10.5	11.6
PGJ3-1/8M④	1/8"	3	31	17	9	11	9.8	7.8	1.2	1.4	PGJ3-1_8M
PGJ3-180M④	1.8		26.3	15	6	8.4	4.8	-	0.9	0.6	PGJ3-180M
PGJ3-2M④	2			6							8.4
PGJ3-4M④	4		31	17	9	11	9.8	7.8	1.2	1.3	PGJ3-4M
PGJ3-6M④	6		31.4	10.5	11.6	11.8	9.8	9.8		1.8	PGJ3-6M
PGJ4-1/8M④	1/8"	4	32	18	9	11	9.8	7.8	2.5	1.5	PGJ4-1_8M
PGJ4-180M④	1.8		26.3	17	6	8.4	4.8	-	0.8	0.7	PGJ4-180M
PGJ4-2M④	2										6
PGJ4-3M④	3		26.8	9.3	7	6	2.4	0.8	PGJ4-3M		
PGJ4-6M④	6		32.4	18	10.5	11.6	11.8	9.8	3.7	1.8	PGJ4-6M
PGJ6-1/8M④	1/8"	6	32	19	9	11	9.8	7.8	2.5	1.7	PGJ6-1_8M
PGJ6-1/4M④	1/4"		32.6		10.5	11.4	11.8	9.8	9.2	1.9	PGJ6-1_4M
PGJ6-3M④	3		32	9	11	9.8	7.8	2.5	1.7	PGJ6-3M	
PGJ6-4M④	4							3.4	1.6	PGJ6-4M	

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

POL Mini Hex. Holed Banjo

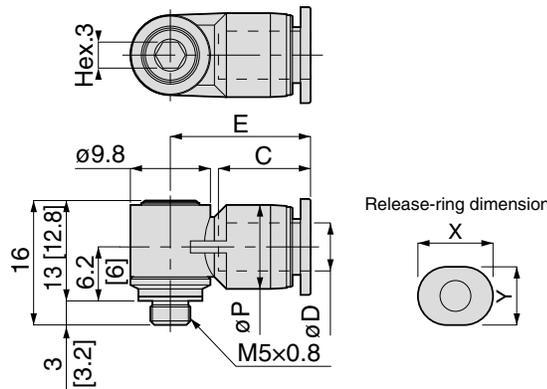
RoHS compliant



❖ UNF thread

unit: inch

Model	Tube O.D. φD	L1	L2	φP	C	E	Orifice φ (mm)	Weight (g)	CAD file name
POL1/8-U10MU	1/8	0.27	0.51	0.31	0.43	0.61	2.4	5.1	POL1_8-U10MU
POL5/32-U10MU	5/32	0.27	0.51	0.31	0.43	0.61	2.4	5.1	POL5_32-U10MU



❖ Metric thread

Unit : mm

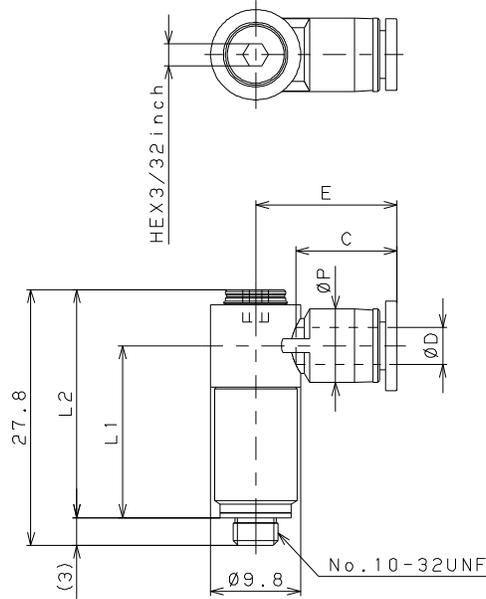
Model code	Tube O.D. øD	øP	Tube end C	E	X	Y	Effective area (mm ²)	Weight (g)	CAD file name(※4)
POL1/8-M5M④	1/8"	8	11	15.4	9.8	7.8	1.7	5	POL1_8-M5M
POL5/32-M5M④	5/32"	8	11	15.4	9.8	7.8	2.1	5	POL5_32-M5M
POL3-M5M④	3	8	11	15.4	9.8	7.8	2.1	5	POL3-M5M
POL4-M5M④	4	8	11	15.4	9.8	7.8	2.1	5	POL4-M5M
POL6-M5M④	6	10.5	11.6	17.5	11.8	9.8	2.1	6	POL6-M5M

※ 1.④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

※ 2. Dimensions in [] are for clean-room package products

POLL Mini Hex. Holed Long Banjo

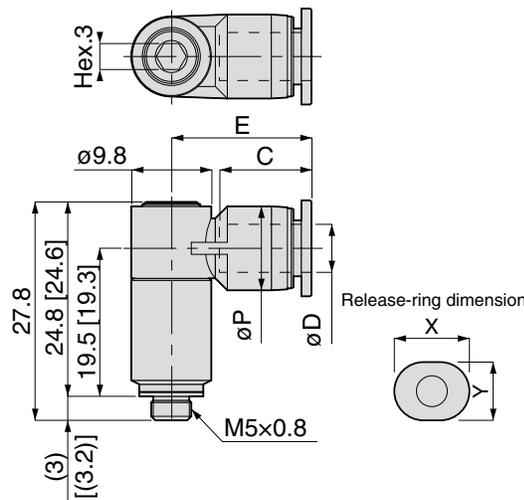
RoHS compliant



❖ UNF thread

unit: inch

Model	Tube O.D. φD	L1	L2	φP	C	E	Orifice φ (mm)	Wt. (g)	CAD file name
POLL1/8-U10MU	1/8	0.74	0.98	0.31	0.43	0.61	2.4	11	POLL1_8-U10MU
POLL5/32-U10MU	5/32	0.74	0.98	0.31	0.43	0.61	2.4	11	POLL5_32-U10MU



❖ Metric thread

Unit : mm

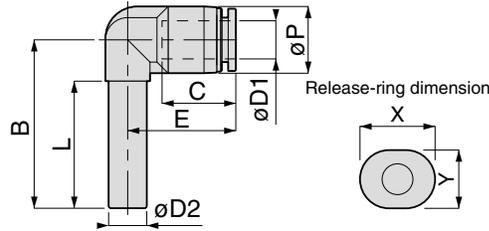
Model code	Tube O.D. øD	øP	Tube end C	E	X	Y	Effective area (mm ²)	Weight (g)	CAD file name(※4)
POLL1/8-M5M④	1/8"	8	11	15.4	9.8	7.8	1.7	11	POLL1_8-M5M
POLL5/32-M5M④	5/32"	8	11	15.4	9.8	7.8	2.1	11	POLL5_32-M5M
POLL3-M5M④	3	8	11	15.4	9.8	7.8	2.1	11	POLL3-M5M
POLL4-M5M④	4	8	11	15.4	9.8	7.8	2.1	11	POLL4-M5M
POLL6-M5M④	6	10.5	11.6	17.5	11.8	9.8	2.1	13	POLL6-M5M

※ 1.④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

※ 2. Dimensions in [] are for clean-room package products.

PLJ Mini Plug-in Elbow

RoHS compliant



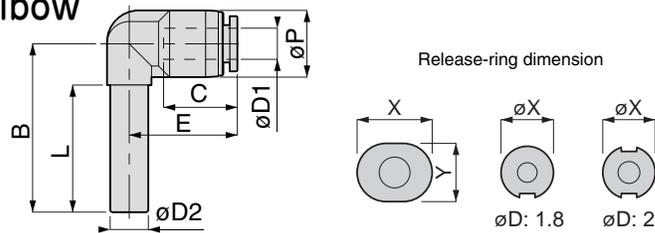
Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	øP	Tube end C	E	L	X	Y	Effective area (mm ²)	Weight (g)	CAD file name
PLJ1/8M ^④	1/8"	1/8"	25	9	11	14.1	17	9.8	7.8	1.2	1.7	PLJ1_8M
PLJ5/32M ^④	5/32"	5/32"	27.5	9	11	14.1	18	9.8	7.8	2.9	1.7	PLJ5_32M
PLJ3/16M ^④	3/16"	3/16"	29	10.5	11.7	17.1	20.5	11.8	9.8	4.8	2.5	PLJ3_16M
PLJ1/4M ^④	1/4"	1/4"	24	10.5	11.4	17.2	22.5	11.8	9.8	8.2	2.4	PLJ1_4M
PLJ3M ^④	3	3	25	9	11	14.1	17	9.8	7.8	1.2	1.1	PLJ3M
PLJ4M ^④	4	4	26.5	9	11	14.1	18	9.8	7.8	3.2	1.8	PLJ4M
PLJ6M ^④	6	6	24	10.5	11.6	17	20	11.8	9.8	5.1	3.1	PLJ6M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PLGJ Mini Unequal Plug-in Elbow

RoHS compliant



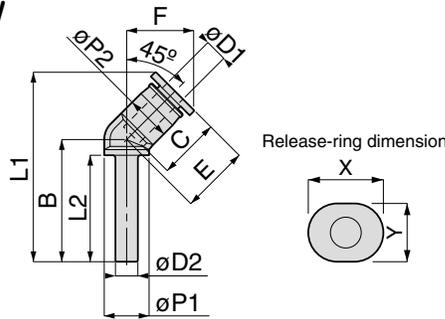
Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	øP	Tube end C	E	L	X	Y	Effective area (mm ²)	Weight (g)	CAD file name	
PLGJ1/8-5/32M ^④	5/32"	1/8"	24	9	11	14.1	17	9.8	7.8	1.2	1.6	PLGJ1_8-5_32M	
PLGJ1/8-1/4M ^④	1/4"		24.5	10.5	11.4	17.2		11.8	9.8		2.1	PLGJ1_8-1_4M	
PLGJ1/8-3M ^④	3	5/32"	24	9	11	14.1	18	9.8	7.8	2.3	1.7	PLGJ1_8-3M	
PLGJ5/32-1/8M ^④	1/8"		25	9	11	14.1		9.8	7.8		1.7	PLGJ5_32-1_8M	
PLGJ5/32-1/4M ^④	1/4"	3/16"	25.5	10.5	11.4	17.2	20.5	11.8	9.8	3.3	2.1	PLGJ5_32-1_4M	
PLGJ3/16-1/8M ^④	1/8"		27	9	11	14.1		9.8	7.8		2.3	1.8	PLGJ3_16-1_8M
PLGJ3/16-5/32M ^④	5/32"		27.5	10.5	11.4	17.2						2.9	1.7
PLGJ3/16-1/4M ^④	1/4"	1/4"	27.5	10.5	11.4	17.2	22.5	11.8	9.8	4.8	2.2	PLGJ3_16-1_4M	
PLGJ1/4-1/8M ^④	1/8"		28.5	9	11	14.1		9.8	7.8		2.4	6	PLGJ1_4-1_8M
PLGJ1/4-5/32M ^④	5/32"		29	10.5	11.6	17						2.9	1.9
PLGJ1/4-6M ^④	6		29	10.5	11.6	17		11.8	9.8		8.2	2.5	PLGJ1_4-6M
PLGJ3-180M ^④	1.8	3	21	6	8.4	10.3	17	4.8	-	0.7	0.7	PLGJ3-180M	
PLGJ3-2M ^④	2						16.5					PLGJ3-2M	
PLGJ3-4M ^④	4		24	9	11	14.1	17	9.8	7.8	1.2	1.6	PLGJ3-4M	
PLGJ3-6M ^④	6		24.5	10.5	11.6	17		11.8	9.8		2.2	PLGJ3-6M	
PLGJ3-1/8M ^④	1/8"	24	9	11	14.1	18	9.8	7.8	2.3	1.7	PLGJ3-1_8M		
PLGJ4-180M ^④	1.8	21	6	8.4	10.3		17	4.8		-	0.7	0.8	PLGJ4-180M
PLGJ4-2M ^④	2						16.5						PLGJ4-2M
PLGJ4-3M ^④	3	25	9	11	14.1		18	9.8		7.8	2.3	1.7	PLGJ4-3M
PLGJ4-6M ^④	6	25.5	10.5	11.6	17	11.8		9.8	3.3	2.2		PLGJ4-6M	
PLGJ4-1/8M ^④	1/8"	25	9	11	14.1	20	9.8	7.8	2.3	1.7	PLGJ4-1_8M		
PLGJ6-1/8M ^④	1/8"	26	9	11	14.1		9.8	7.8		2.3	1.9	PLGJ6-1_8M	
PLGJ6-1/4M ^④	1/4"											26.5	10.5
PLGJ6-3M ^④	3	26	9	11	14.1		9.8	7.8		2.3	1.9	PLGJ6-3M	
PLGJ6-4M ^④	4					2.9			1.8			PLGJ6-4M	

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PLHJ Mini 45° Plug-in Elbow

RoHS compliant



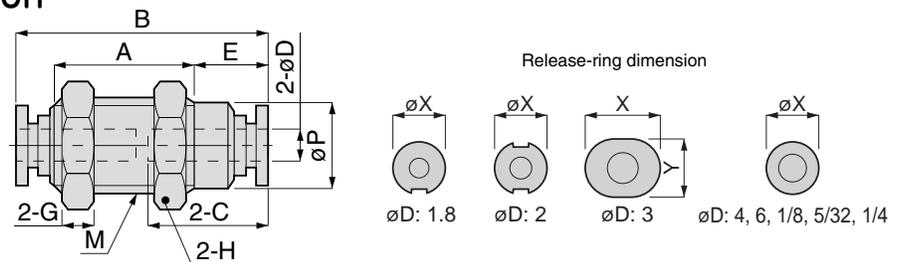
Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	øP1	øP2	Tube end C	L1	L2	E	F	X	Y	Effective area (mm ²)	Weight (g)	CAD file name
PLHJ4M④	4	4	21.8	8	8	11	33.8	18.5	12.2	12	9.8	7.8	3	1.3	PLHJ4M
PLHJ6M④	6	6	24.5	8	10.5	11.6	37.4	19.5	12.3	12.8	11.8	9.8	5.9	2.1	PLHJ6M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PM Mini Bulkhead Union

RoHS compliant



❖ **Unified thread Bulkhead**

unit: inch

Model	Tube O.D. øD	M	B	E	A	øP	C	Hex.	G	Orifice ø (mm)	Wt (g)	CAD file name
PM1/8MU	1/8	7/16-20UNF	0.91	0.23	0.56	0.35	0.43	1/2	0.12	2.0	6.6	PM1_8MU
PM5/32MU	5/32	7/16-20UNF	0.91	0.23	0.56	0.35	0.43	1/2	0.12	3.0	6.5	PM5_32MU
PM1/4MU	1/4	1/2-20UNF	1.02	0.25	0.63	0.43	0.45	9/16	0.20	4.6	9.5	PM1_4MU

❖ **Metric thread Bulkhead**

Unit : mm

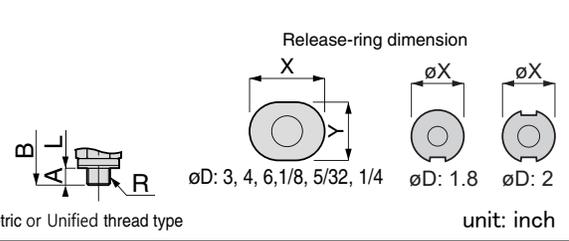
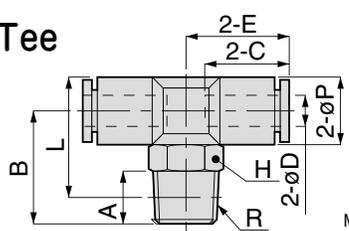
Model code	Tube O.D. øD	M	B	E	A	øP	Tube end C	Hex. H	G	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name
PM1/8M④	1/8"	M10×1	23.2	5.8	14.1	8.9	10.9	12	3	7.8	-	2.1	6.1	PM1_8M
PM5/32M④	5/32"	M12×1	23.2	5.8	14.1	8.9	10.9	12	3	7.8	-	3.7	6	PM5_32M
PM1/4M④	1/4"	M10×1	24.6	6.4	14.8	10.8	11.4	14	4	9.8	-	11.2	8.8	PM1_4M
PM180M④	1.8	M10×1	17.6	2.1	13.5	-	8.4	8	2	4.8	-	1	1.5	PM180M
PM2M④	2	M12×1	17.6	2.1	13.5	-	8.4	8	2	4.8	-	1	2	PM2M
PM3M④	3	M6×0.75	19.5	4.8	11.7	7	9.4	10	2	7	6	2.4	3.1	PM3M
PM4M④	4	M6×0.75	23.2	5.8	14.1	8.9	10.9	12	3	7.8	-	3.7	6	PM4M
PM6M④	6	M8×0.75	25	6.6	14.8	10.8	11.7	14	4	9.8	-	10.5	9	PM6M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package



Branch Tee

RoHS compliant



❖ NPT and UNF thread

Metric or Unified thread type

unit: inch

Model	O.D. ϕ D	R	A	B	L	ϕ P	C	E	Ex2	Hex.	Orifice ϕ (mm)	Wt (g)	CAD file name
PB1/8-U10MU	1/8	10-32UNF	0.12	0.57	0.61	0.31	0.43	0.49	0.98	5/16	2.5	4.4	PB1_8-U10MU
PB1/8-NOMU	1/8	1/16 NPT	0.31	0.77	0.76	0.31	0.43	0.49	0.98	7/16	2.5	8.5	PB1_8-NOMU
PB1/8-N1MU	1/8	1/8 NPT	0.31	0.67	0.67	0.31	0.43	0.49	0.98	7/16	2.5	8	PB1_8-N1MU
PB1/8-N2MU	1/8	1/4 NPT	0.43	0.87	0.80	0.31	0.43	0.49	0.98	9/16	2.5	19	PB1_8-N1MU
PB5/32-U10MU	5/32	10-32UNF	0.12	0.57	0.61	0.31	0.43	0.49	0.98	5/16	2.5	4.3	PB5_32-U10MU
PB5/32-NOMU	5/32	1/16 NPT	0.31	0.77	0.76	0.31	0.43	0.49	0.98	7/16	2.5	8.4	PB5_32-NOMU
PB5/32-N1MU	5/32	1/8 NPT	0.31	0.67	0.67	0.31	0.43	0.49	0.98	7/16	2.5	7.9	PB5_32-N1MU
PB5/32-N2MU	5/32	1/4 NPT	0.43	0.87	0.80	0.31	0.43	0.49	0.98	9/16	3.0	14	PB5_32-N2MU
PB1/4-U10MU	1/4	10-32UNF	0.12	0.61	0.70	0.41	0.45	0.56	1.11	5/16	2.5	5.3	PB1_4-U10MU
PB1/4-NOMU	1/4	1/16 NPT	0.31	0.81	0.85	0.41	0.45	0.56	1.11	7/16	3.5	9.4	PB1_4-NOMU
PB1/4-N1MU	1/4	1/8 NPT	0.31	0.71	0.75	0.41	0.45	0.56	1.11	7/16	4.0	8.9	PB1_4-N1MU
PB1/4-N2MU	1/4	1/4 NPT	0.43	0.92	0.89	0.41	0.45	0.56	1.12	9/16	4.0	15	PB1_4-N2MU
PB1/4-N3MU	1/4	3/8 NPT	0.47	0.96	0.92	0.41	0.45	0.56	1.12	11/16	4.0	24	PB1_4-N3MU

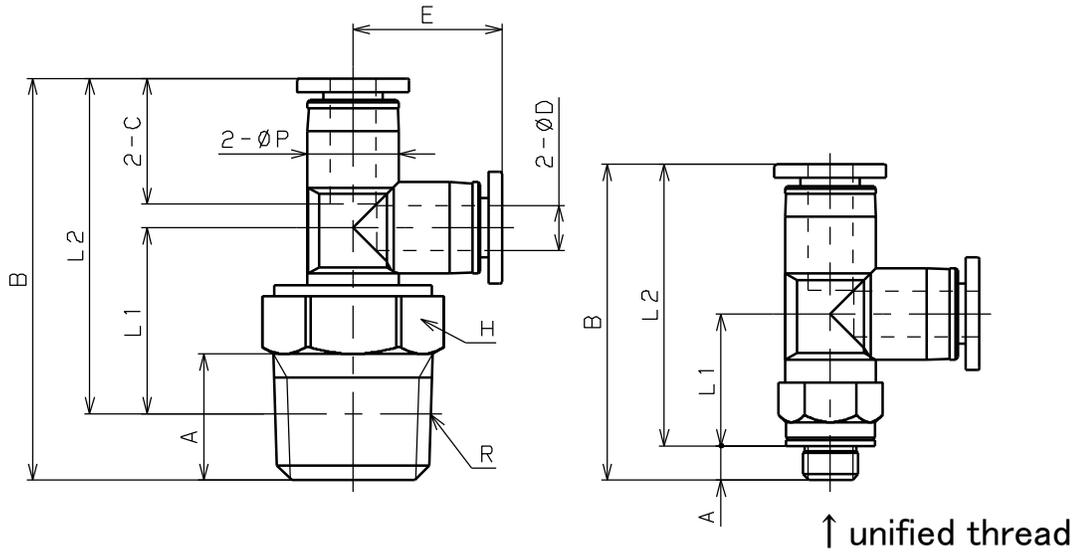
❖ Metric thread

Unit : mm

Model code	Tube O.D. ϕ D	R	A	B	L	ϕ P	Tube end C	E	Hex. H	X (ϕ X)	Y	Effective area (mm ²)	Weight (g)	CAD file name
PB1/8-M3M④	1/8"	M3×0.5	2.5 [2.2]	15	16.5 [16.8]	8	11	12.5	8	9.8	7.8	0.9	4.1	PB1_8-M3M[C]
PB1/8-M5M④		M5×0.8	3 [3.2]	14.5	15.5 [15.3]							2.1	4.4	PB1_8-M5M[C]
PB1/8-M6M④		M6×1	3.9 [4]	15.5	15.6 [15.5]				2.2			4.7	PB1_8-M6M[C]	
PB1/8-01M④		R1/8	8	17	17				2.3			7.3	PB1_8-01M	
PB5/32-M3M④	5/32"	M3×0.5	2.5 [2.2]	15	16.5 [16.8]	8	11	12.5	8	9.8	7.8	1.4	3.9	PB5_32-M3M[C]
PB5/32-M5M④		M5×0.8	3 [3.2]	14.5	15.5 [15.3]							2.8	4.3	PB5_32-M5M[C]
PB5/32-M6M④		M6×1	3.9 [4]	15.5	15.6 [15.5]				2.9			4.6	PB5_32-M6M[C]	
PB5/32-01M④		R1/8	8	17	17				3.3			7.2	PB5_32-01M	
PB5/32-02M④	R1/4	11	22	20	4.4	13	PB5_32-02M							
PB1/4-M5M④	1/4"	M5×0.8	3 [3.2]	15.5	17.8 [17.6]	10.5	11.4	14.1	8	11.8	9.8	3.3	5.3	PB1_4-M5M[C]
PB1/4-M6M④		M6×1	3.9 [4]	16.5	17.9 [17.8]							3.6	5.6	PB1_4-M6M[C]
PB1/4-01M④		R1/8	8	18	19.3			8	8.1			PB1_4-01M		
PB1/4-02M④		R1/4	11	23.3	22.5			14	15			PB1_4-02M		
PB1/4-03M④	R3/8	12	24.3	23.2	17	8.5	22	PB1_4-03M						
PB180-M3M④	1.8	M3×0.5	2.5 [2.2]	12	12.5 [12.8]	6	8.4	10.25	5.5	4.8	-	0.5	1.9	PB180-M3M[C]
PB180-M5M④		M5×0.8	3 [3.2]	13.5	13.5 [13.3]				0.6			3.2	PB180-M5M[C]	
PB2-M3M④	2	M3×0.5	2.5 [2.2]	12	12.5 [12.8]	6	8.4	10.25	5.5	4.8	-	0.5	1.9	PB2-M3M[C]
PB2-M5M④		M5×0.8	3 [3.2]	13.5	13.5 [13.3]				0.6			3.2	PB2-M5M[C]	
PB3-M3M④	3	M3×0.5	2.5 [2.2]	12	12.5 [12.8]	6	9.3	10.8	5.5	7	6	0.7	1.9	PB3-M3M[C]
PB3-M5M④		M5×0.8	3 [3.2]	13.5	13.5 [13.3]				2			3.3	PB3-M5M[C]	
PB3-M6M④		M6×1	3.9 [4]	14.5	13.6 [13.5]			1.9	3.6			PB3-M6M[C]		
PB3-01M④		R1/8	8	17	17			8	11			12.5	10	9.8
PB4-M3M④	4	M3×0.5	2.5 [2.2]	15	16.5 [16.8]	8	11	12.5	8	9.8	7.8	1.4	3.9	PB4-M3M[C]
PB4-M5M④		M5×0.8	3 [3.2]	14.5	15.5 [15.3]							3.7	4.3	PB4-M5M[C]
PB4-M6M④		M6×1	3.9 [4]	15.5	15.6 [15.5]			2.8	4.6			PB4-M6M[C]		
PB4-01M④		R1/8	8	17	17			4.6	7.2			PB4-01M		
PB4-02M④	R1/4	11	22	20	4.4	13	PB4-02M							
PB6-M5M④	6	M5×0.8	3 [3.2]	15.5	17.8 [17.6]	10.5	11.6	13.9	8	11.8	9.8	3.5	5.6	PB6-M5M[C]
PB6-M6M④		M6×1	3.9 [4]	16.5	17.9 [17.8]							3.6	5.9	PB6-M6M[C]
PB6-01M④		R1/8	8	18	19.3			8	8.4			PB6-01M		
PB6-02M④		R1/4	11	23.3	22.5			14	15			PB6-02M		
PB6-03M④	R3/8	12	24.3	23.2	17	8.5	22	PB6-03M						



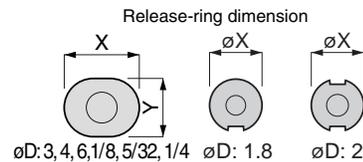
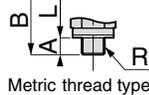
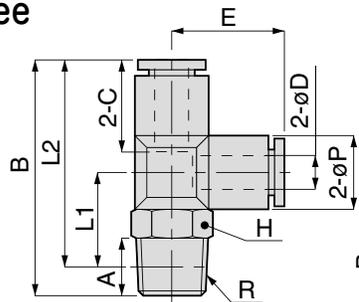
Run Tee



❖ **NPT and UNF thread**

unit: inch

Model	O.D. φD	R	A	B	L1	L2	φP	C	E	Hex.	Orifice φ (mm)	Wt (g)	CAD file name
PD1/8-U10MU	1/8	10-32UNF	0.12	1.09	0.45	0.97	0.31	0.43	0.52	5/16	2.4	4.4	PD1_8-U10MU
PD1/8-N0MU	1/8	1/16 NPT	0.31	1.28	0.61	1.12	0.31	0.43	0.52	7/16	2.5	8.6	PD1_8-N0MU
PD1/8-N1MU	1/8	1/8 NPT	0.31	1.19	0.51	1.02	0.31	0.43	0.52	7/16	2.5	8.1	PD1_8-N1MU
PD1/8-N2MU	1/8	1/4 NPT	0.43	1.38	0.64	1.15	0.31	0.43	0.52	9/16	2.5	19	PD1_8-N1MU
PD5/32-U10MU	5/32	10-32UNF	0.12	1.09	0.45	0.97	0.31	0.43	0.52	5/16	2.4	4.3	PD5_32-U10MU
PD5/32-N0MU	5/32	1/16 NPT	0.31	1.28	0.61	1.12	0.31	0.43	0.52	7/16	2.5	8.5	PD5_32-N0MU
PD5/32-N1MU	5/32	1/8 NPT	0.31	1.19	0.51	1.02	0.31	0.43	0.52	7/16	2.5	8	PD5_32-N1MU
PD5/32-N2MU	5/32	1/4 NPT	0.43	1.38	0.64	1.15	0.31	0.43	0.52	9/16	2.5	14	PD5_32-N2MU
PD1/4-U10MU	1/4	10-32UNF	0.12	1.21	0.49	1.09	0.41	0.45	0.60	5/16	2.4	5.4	PD1_4-U10MU
PD1/4-N0MU	1/4	1/16 NPT	0.31	1.41	0.65	1.24	0.41	0.45	0.60	7/16	3.5	9.5	PD1_4-N0MU
PD1/4-N1MU	1/4	1/8 NPT	0.31	1.31	0.55	1.14	0.41	0.45	0.60	7/16	4.0	9	PD1_4-N1MU
PD1/4-N2MU	1/4	1/4 NPT	0.43	1.50	0.68	1.28	0.41	0.45	0.60	9/16	4.0	15	PD1_4-N2MU
PD1/4-N3MU	1/4	3/8 NPT	0.47	1.54	0.70	1.30	0.41	0.45	0.60	11/16	4.0	24	PD1_4-N3MU



❖ Metric thread

Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	øP	Tube end C	E	Hex. H	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name		
PD1/8-M3M ^④	1/8"	M3×0.5	2.5 [2.2]	28.1	12.5 [12.8]	25.6 [25.9]	8	11	13.1	8	9.8	7.8	0.9	4.1	PD1_8-M3M[C]		
PD1/8-M5M ^④		M5×0.8	3 [3.2]	27.6	11.5 [11.3]	24.6 [24.4]									PD1_8-M5M[C]		
PD1/8-M6M ^④		M6×1	3.9 [4]	28.6	11.6 [11.5]	24.7 [24.6]				PD1_8-M6M[C]							
PD1/8-01M ^④		R1/8	8	30.1	13	26.1				10					PD1_8-01M		
PD5/32-M3M ^④	5/32"	M3×0.5	2.5 [2.2]	28.1	12.5 [12.8]	25.6 [25.9]	8	11	13.1	8	9.8	7.8	0.9	4	PD5_32-M3M[C]		
PD5/32-M5M ^④		M5×0.8	3 [3.2]	27.6	11.5 [11.3]	24.6 [24.4]									PD5_32-M5M[C]		
PD5/32-M6M ^④		M6×1	3.9 [4]	28.6	11.6 [11.5]	24.7 [24.6]				3.1					4.7	PD5_32-M6M[C]	
PD5/32-01M ^④		R1/8	8	30.1	13	26.1				10					7.3	PD5_32-01M	
PD5/32-02M ^④		R1/4	11	35.1	16	29				14					3.3	14	PD5_32-02M
PD1/4-M5M ^④	1/4"	M5×0.8	3 [3.2]	30.7	12.5 [12.3]	27.7 [27.5]	10.5	11.4	15.2	8	11.8	9.8	3.6	5.4	PD1_4-M5M[C]		
PD1/4-M6M ^④		M6×1	3.9 [4]	31.7	12.6 [12.5]	27.8 [27.7]									3.7	5.6	PD1_4-M6M[C]
PD1/4-01M ^④		R1/8	8	33.2	14	29.2				10					8.5	8.2	PD1_4-01M
PD1/4-02M ^④		R1/4	11	38.2	17	32.1				14					8.8	15	PD1_4-02M
PD1/4-03M ^④		R3/8	12	39.2	17.7	32.8				17					8.9	23	PD1_4-03M
PD180-M3M ^④	1.8	M3×0.5	2.5 [2.2]	22.3	9.5 [9.8]	19.8 [20.1]	6	8.4	10.3	5.5	4.8	-	0.5	1.9	PD180-M3M[C]		
PD180-M5M ^④		M5×0.8	3 [3.2]	23.8	10.5 [10.3]	20.8 [20.6]				8					0.8	3.2	PD180-M5M[C]
PD2-M3M ^④	2	M3×0.5	2.5 [2.2]	22.3	9.5 [9.8]	19.8 [20.1]	6	8.4	10.3	5.5	4.8	-	0.5	1.9	PD2-M3M[C]		
PD2-M5M ^④		M5×0.8	3 [3.2]	23.8	10.5 [10.3]	20.8 [20.6]				8					0.8	3.2	PD2-M5M[C]
PD3-M3M ^④	3	M3×0.5	2.5 [2.2]	22.8	9.5 [9.8]	20.3 [20.6]	6	9.3	10.8	5.5	7	6	0.7	1.9	PD3-M3M[C]		
PD3-M5M ^④		M5×0.8	3 [3.2]	24.3	10.5 [10.3]	21.3 [21.1]				8					2.2	3.2	PD3-M5M[C]
PD3-M6M ^④		M6×1	3.9 [4]	25.3	10.6 [10.5]	21.4 [21.3]				2					3.6	PD3-M6M[C]	
PD3-01M ^④		R1/8	8	30.1	13	26.1				8					11	13.1	10
PD4-M3M ^④	4	M3×0.5	2.5 [2.2]	28.1	12.5 [12.8]	25.6 [25.9]	8	11	13.1	8	9.8	7.8	0.9	4	PD4-M3M[C]		
PD4-M5M ^④		M5×0.8	3 [3.2]	27.6	11.5 [11.3]	24.6 [24.4]									2.1	4.4	PD4-M5M[C]
PD4-M6M ^④		M6×1	3.9 [4]	28.6	11.6 [11.5]	24.7 [24.6]				2.2					4.7	PD4-M6M[C]	
PD4-01M ^④		R1/8	8	30.1	13	26.1				10					4.6	7.3	PD4-01M
PD4-02M ^④		R1/4	11	35.1	16	29				14					3.3	14	PD4-02M
PD6-M5M ^④	6	M5×0.8	3 [3.2]	30.5	12.5 [12.3]	27.5 [27.3]	10.5	11.6	15	8	11.8	9.8	2.2	5.6	PD6-M5M[C]		
PD6-M6M ^④		M6×1	3.9 [4]	31.5	12.6 [12.5]	27.6 [27.5]									3.3	5.9	PD6-M6M[C]
PD6-01M ^④		R1/8	8	33	14	29				10					8.5	8.4	PD6-01M
PD6-02M ^④		R1/4	11	38	17	31.9				14					6.6	15	PD6-02M
PD6-03M ^④		R3/8	12	39	17.7	32.6				17					8.9	23	PD6-03M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

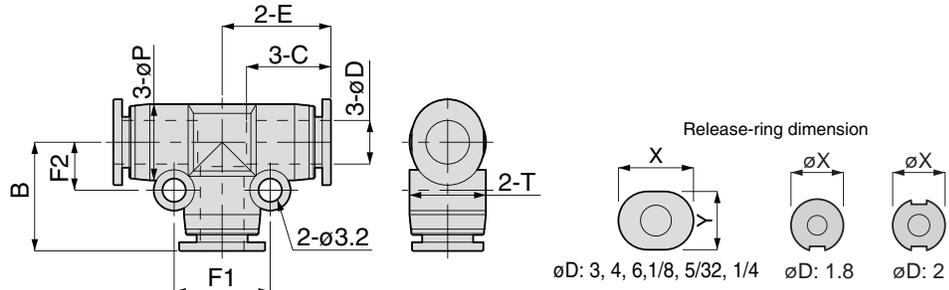
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 3. Dimensions in [] are for clean-room package products

PE Union Tee

Mini

RoHS compliant



Unit : mm

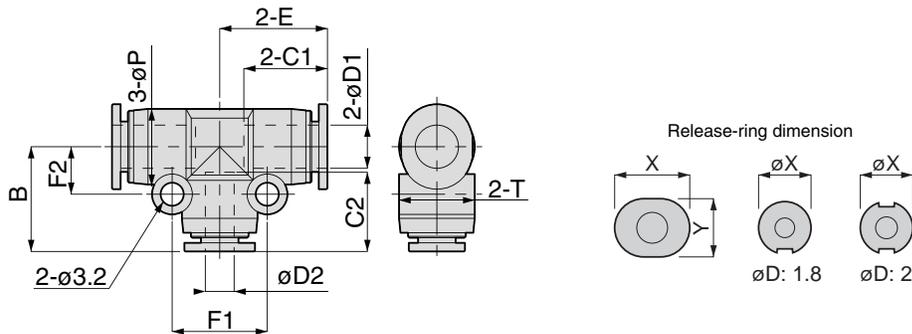
Model code	Tube O.D. øD	B	øP	Tube end C	E	F1	F2	T	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name
PE1/8M④	1/8"	13.1	8	11	13.05	11.2	5.6	8	9.8	7.8	2.1	3.4	PE1_8M
PE5/32M④	5/32"	13.1	8	11	13.05	11.2	5.6	8	9.8	7.8	4.6	3.3	PE5_32M
PE1/4M④	1/4"	15.2	10.5	11.4	15.15	13.2	6.6	11	11.8	9.8	11.4	5	PE1_4M
PE180M④	1.8	10.3	6	8.4	10.25	9	4.5	6	4.8	-	0.6	1.7	PE180M
PE2M④	2	10.3	6	8.4	10.25	9	4.5	6	4.8	-	0.6	1.6	PE2M
PE3M④	3	10.8	6	9.3	10.8	9	4.5	6	7	6	1.9	1.7	PE3M
PE4M④	4	13.1	8	11	13.05	11.2	5.6	8	9.8	7.8	4.6	3.3	PE4M
PE6M④	6	15	10.5	11.6	14.95	13.2	6.6	11	11.8	9.8	8.9	5.3	PE6M

※1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PEG Unequal Union Tee

Mini

RoHS compliant



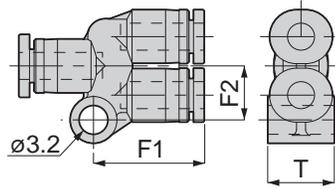
Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	B	øP	Tube end C1	Tube end C2	E	F1	F2	T	D1 release-ring		D2 release-ring		Effective area (mm ²)	Weight (g)	CAD file name
											X	Y	X(øX)	Y			
PEG1/8-5/32M④	1/8"	5/32"	13.1	8	11	11	13.05	11.2	5.6	8	9.8	7.8	9.8	7.8	1.7	3.4	PEG1_8-5_32M
PEG5/32-1/8M④	5/32"	1/8"	13.1	8	11	11	13.05	11.2	5.6	8	9.8	7.8	9.8	7.8	2.3	3.3	PEG5_32-1_8M
PEG5/32-1/4M④		1/4"	15.2	10.5		11.4	14.55	13.2	6.6	11			11.8	9.8	3.7	4.8	PEG5_32-1_4M
PEG1/4-5/32M④	1/4"	5/32"	14.6	10.5	11.4	11	15.15	13.2	6.6	11	11.8	9.8	9.8	7.8	3.6	5.9	PEG1_4-5_32M
PEG3-180M④	3	1.8	10.3	6	9.3	8.4	10.8	9	4.5	6	7	6	4.8	-	0.8	1.7	PEG3-180M
PEG3-2M④		2															PEG3-2M
PEG3-4M④		4															13.1
PEG4-1/8M④	4	1/8"	13.1	8	11	11	13.05	11.2	5.6	8	9.8	7.8	9.8	7.8	2.3	3.3	PEG4-1_8M
PEG4-6M④		6	15	10.5		11.6	14.55	13.2	6.6	11			11.8	9.8	3.7	4.9	PEG4-6M
PEG4-3M④		3	13.1	8		11	13.05	11.2	5.6	8			9.8	7.8	2.4	3.3	PEG4-3M
PEG6-4M④	6	4	14.6	10.5	11.6	11	14.95	13.2	6.6	11	11.8	9.8	9.8	7.8	5.3	5.1	PEG6-4M

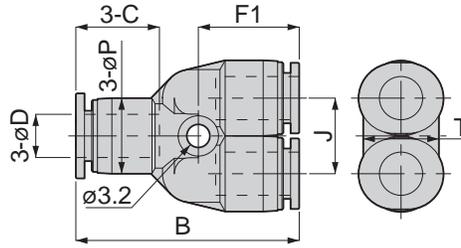
※1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PY Mini Union Y

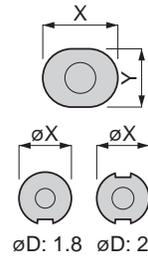
RoH compliant



PY180M□, PY2M□, PY3M□ types



Release-ring dimension



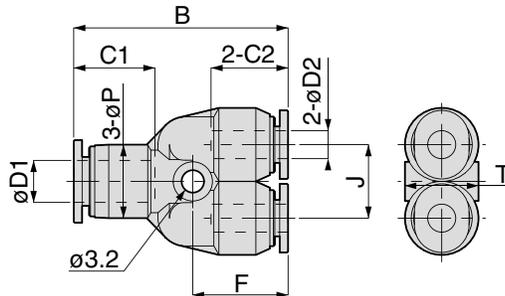
Unit : mm

Model code	Tube O.D. øD	B	øP	Tube end C	J	F1	F2	T	X (øX)	Y	Effective area (mm ²)	Weight (g)	CAD file name
PY1/8M④	1/8"	27.6	8	11	8	12.6	-	10.2	9.8	7.8	1.1	3.7	PY1_8M
PY5/32M④	5/32"	27.6	8	11	8	12.6	-	10.2	9.8	7.8	2.3	3.5	PY5_32M
PY1/4M④	1/4"	31.4	10.5	11.4	10.5	14.2	-	10.5	11.8	9.8	9.6	5.3	PY1_4M
PY180M④	1.8	19.5	6	8.4	6.5	11.8	6	7.4	4.8	-	0.4	1.7	PY180M
PY2M④	2	19.5	6	8.4	6.5	11.8	6	7.4	4.8	-	0.6	1.7	PY2M
PY3M④	3	20.6	6	9.3	6.5	12.3	6	7.4	7	6	1.6	1.8	PY3M
PY4M④	4	27.6	8	11	8	12.6	-	10.2	9.8	7.8	2.3	3.5	PY4M
PY6M④	6	31	10.5	11.6	10.5	14	-	10.5	11.8	9.8	6.8	5.5	PY6M

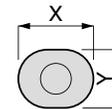
※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PW Mini Unequal Union Y

RoHS compliant



Release-ring dimension



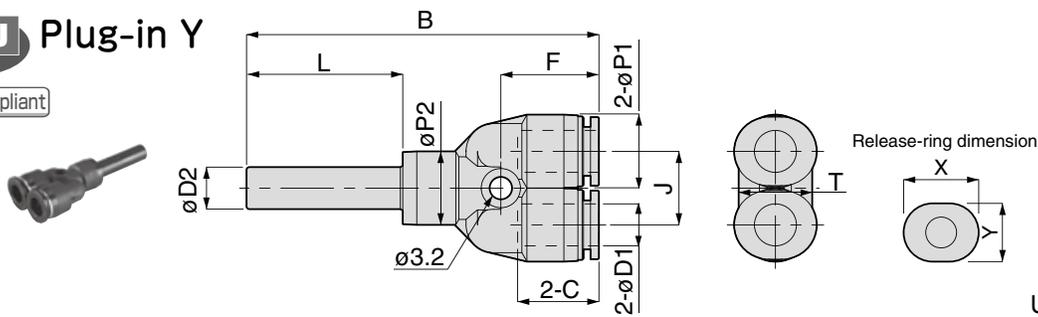
Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	B	øP	Tube end C1	Tube end C2	J	F	T	D1 release-ring		D2 release-ring		Effective area (mm ²)	Weight (g)	CAD file name
										X	Y	X	Y			
PW5/32-1/8M④	5/32"	1/8"	27.6	8	11	11	8	12.6	10.2	9.8	7.8	9.8	7.8	1.8	3.6	PW5_32-1_8M
PW1/4-1/8M④	1/4"	1/8"	30.8	10.5	11.4	11	10.5	13.6	10.5	11.8	9.8	9.8	7.8	2.5	5.2	PW1_4-1_8M
PW1/4-5/32M④		5/32"												3.6	6.9	PW1_4-5_32M
PW1/8-3M④	1/8"	3	27.6	8	11	11	8	12.6	10.2	9.8	7.8	9.8	7.8	1.7	3.7	PW1_8-3M
PW4-1/8M④	4	1/8"	27.6	8	11	11	8	12.6	10.2	9.8	7.8	9.8	7.8	1.8	3.6	PW4-1_8M
PW4-3M④		3										ø7.8	-			2.1
PW6-1/8M④	6	1/8"	30.6	10.5	11.6	11	10.5	13.6	10.5	11.8	9.8	9.8	7.8	2.4	5.4	PW6-1_8M
PW6-3M④		3												2.5	5.3	PW6-3M
PW6-4M④		4														4.2

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PYJ Plug-in Y

RoHS compliant



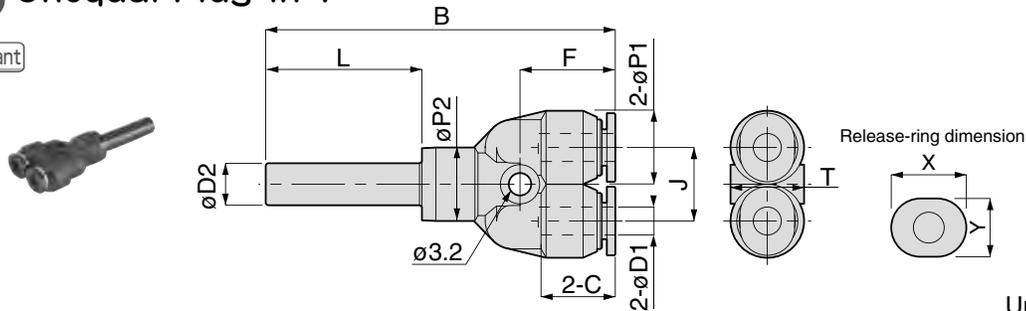
Unit : mm

Model code	Tube O.D. φD1	Tube dia. φD2	B	φP1	φP2	Tube end C	L	F	J	T	X	Y	Effective area (mm ²)	Weight (g)	CAD file name
PYJ1/8M④	1/8"	1/8"	42.6	8	8	11	16.6	12.6	8	8	9.8	7.8	1.1	3.2	PYJ1_8M
PYJ5/32M④	5/32"	5/32"	45	8	8	11	19	12.6	8	8	9.8	7.8	2.2	3.2	PYJ5_32M
PYJ3M④	3	3	42.8	8	8	9.3	17.4	12.8	8	8	7	6	0.8	2.6	PYJ3M
PYJ4M④	4	4	45	8	8	11	19	12.6	8	8	9.8	7.8	2.2	3.2	PYJ4M
PYJ6M④	6	6	50.3	10.5	10.5	11.6	22	14	10.5	10.5	11.8	9.8	5.6	5.4	PYJ6M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PWJ Unequal Plug-in Y

RoHS compliant



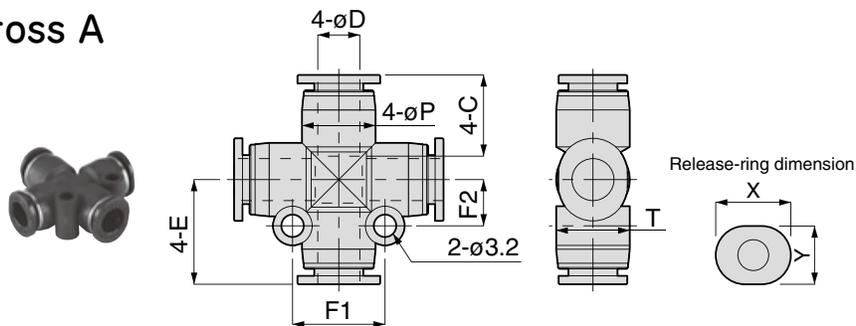
Unit : mm

Model code	Tube O.D. φD1	Tube dia. φD2	B	φP1	φP2	Tube end C	L	F	J	T	X	Y	Effective area (mm ²)	Weight (g)	CAD file name
PWJ5/32-1/8M④	1/8"	5/32"	44.6	8	8	11	19	12.6	8	8	9.8	7.8	1.7	3.3	PWJ5_32-1_8M
PWJ4-3M④	3	4	44.8	8	8	9.3	19	12.8	8	8	7	6	2.6	2.8	PWJ4-3M
PWJ4-1/8M④	1/8"		44.6			11					9.8	7.8	1.7	3.3	PWJ4-1_8M
PWJ6-1/8M④	1/8"	6	49.9	10.5	10.5	11	22	13.6	10.5	10.5	9.8	7.8	5.3	5.2	PWJ6-1_8M
PWJ6-3M④	3												4.5	5.2	PWJ6-3M
PWJ6-4M④	4												5.3	5.1	PWJ6-4M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PZA Cross A

RoHS compliant

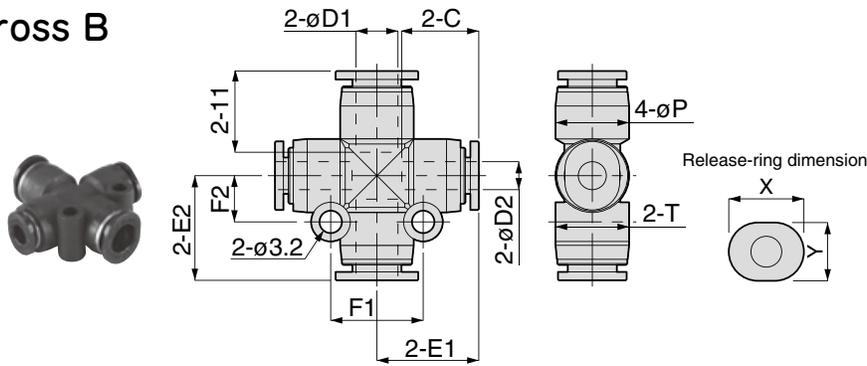


Unit : mm

Model code	Tube O.D. φD	E	φP	Tube end C	F1	F2	T	X	Y	Effective area (mm ²)	Weight (g)	CAD file name
PZA1/8M④	1/8"	13.05	8	11	11.2	5.6	8	9.8	7.8	4.8	4.5	PZA1_8M
PZA5/32M④	5/32"	13.05	8	11	11.2	5.6	8	9.8	7.8	4.8	4.3	PZA5_32M
PZA3M④	3	13.05	8	11	11.2	5.6	8	9.8	7.8	2.2	4.6	PZA3M
PZA4M④	4	13.05	8	11	11.2	5.6	8	9.8	7.8	4.8	4.3	PZA4M
PZA6M④	6	14.95	10.5	11.6	13.2	6.6	10.5	11.8	9.8	8.8	6.7	PZA6M

※ 1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PZB Cross B
Mini
RoHS compliant

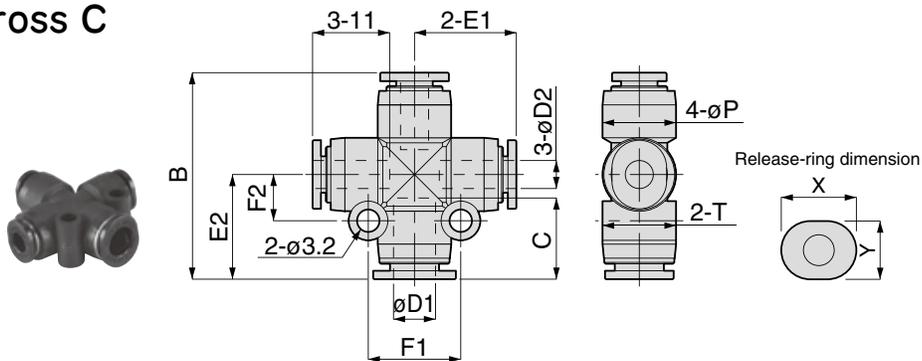


Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	E1	E2	øP	Tube end C	F1	F2	T	D1 release-ring		D2 release-ring		Effective area (mm ²)	Weight (g)	CAD file name
										X	Y	X	Y			
PZB5/32-1/8M④	5/32"	1/8"	13.05	13.05	8	11	11.2	5.6	8	9.8	7.8	9.8	7.8	2.2	4.4	PZB5_32-1_8M
PZB1/8-3M④	1/8"	3	13.05	13.05	8	11	11.2	5.6	8	9.8	7.8	9.8	7.8	2.2	4.5	PZB1_8-3M
PZB4-1/8M④	4	1/8"	13.05	13.05	8	11	11.2	5.6	8	9.8	7.8	9.8	7.8	4.8	4.4	PZB4-1_8M
PZB4-3M④		3												2.2		PZB4-3M
PZB6-1/8M④	6	1/8"	14.55	14.95	10.5	11.6	13.2	6.6	10.5	11.8	9.8	9.8	7.8	5.3	6.5	PZB6-1_8M
PZB6-4M④		4												5.3		PZB6-4M

※1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PZC Cross C
Mini
RoHS compliant



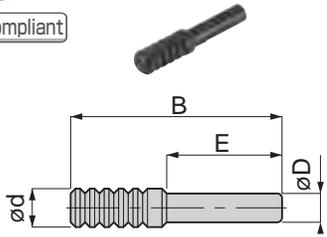
Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	B	E1	E2	øP	Tube end C	F1	F2	T	D1 release-ring		D2 release-ring		Effective area (mm ²)	Weight (g)	CAD file name
											X	Y	X	Y			
PZC5/32-1/8M④	5/32"	1/8"	26.1	13.05	13.05	8	11	11.2	5.6	8	9.8	7.8	9.8	7.8	2.2	4.4	PZC5_32-1_8M
PZC1/8-3M④	1/8"	3	26.1	13.05	13.05	8	11	11.2	5.6	8	9.8	7.8	9.8	7.8	1.9	4.5	PZC1_8-3M
PZC4-1/8M④	4	1/8"	26.1	13.05	13.05	8	11	11.2	5.6	8	9.8	7.8	9.8	7.8	2.2	4.4	PZC4-1_8M
PZC4-3M④		3															PZC4-3M
PZC6-1/8M④	6	1/8"	29.5	14.55	14.95	10.5	11.6	13.2	6.6	10.5	11.8	9.8	9.8	7.8	2.4	6.5	PZC6-1_8M
PZC6-4M④		4													4.9		PZC6-4M

※1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

PP Plug

RoHS compliant



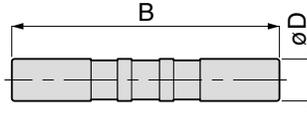
Unit : mm

Model code	øD	ød	B	E	Weight (g)	CAD file name
PP1/8M ^④	1/8"	4	22	11.8	0.2	PP1_8M
PP180M ^④	1.8	3	20	9.8	0.1	PP180M
PP2M ^④	2	3	20	9.8	0.1	PP2M
PP3M ^④	3	4	22	11.8	0.2	PP3M

※. The color of PP1/8M is white.

PIJ Union Stem

RoHS compliant



Unit : mm

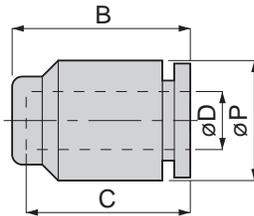
Model code	Tube dia. øD	B	Effective area (mm ²)	Weight (g)	CAD file name
PIJ1/8M ^④	1/8"	27.1	2.5	0.2	PIJ1_8M
PIJ3M ^④	3	27.1	2.5	0.2	PIJ3M

※1. ④ in Model code / Replaced with "W" for Light-gray color and/or "C" for Clean-room package

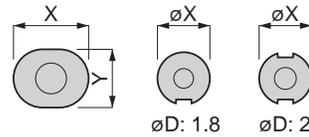
※2. The color of PIJ1/8 is solid white

PPF Cap

RoHS compliant



Release-ring dimension



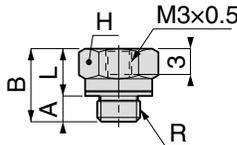
Unit : mm

Model code	Tube O.D. øD	B	øP	Tube end C	X (øX)	Y	Weight (g)	CAD file name
PPF180M ^④	1.8	9.8	6	8.4	4.8	-	0.5	PPF180M
PPF2M ^④	2	9.8	6	8.4	4.8	-	0.5	PPF2M
PPF3M ^④	3	10.3	6	9.3	7	6	0.6	PPF3M

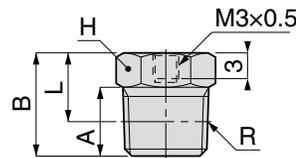
※1. 1/8" O.D. cap is listed as PPF1/8 in Standard fitting category.

PF Extension Screw Adaptor

RoHS compliant



Metric thread type



Taper pipe thread type

Unit : mm

❖ Metric thread

Model code	R	A	B	L	Hex. H	Effective area (mm ²)	Weight (g)	CAD file name
PFM5-M3M ^④	M5 × 0.8	3 [3.2]	8.5	5.5 [5.3]	8	4.5	2.4	PFM5-M3M
PF01-M3M ^④	R1/8	8	12	8	10	4.5	6.8	PF01-M3M

※ 1. ④ in Model code / Replaced with "C" for Clean-room package

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

※ 3. Dimensions in [] are for clean-room package products

※ 4. Visit PISCO website for CAD data of clean-room package products.

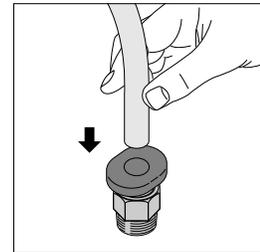
■ How to insert and disconnect

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.

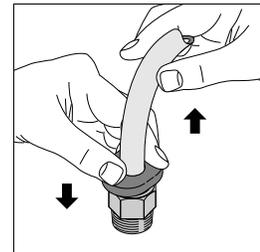
Refer to "2. Instructions for Tube Insertion" under "Common Safety Instructions for Fittings".



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.



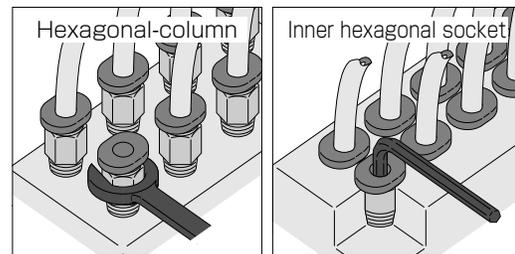
2. How to tighten thread

① Tightening thread

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

Note) The recommended torque force of the model code "POC180-M3M" is 0.3N·m



■ Straight Tube for General Pneumatic Piping

Polyurethane Tube

Characteristics

- This polyurethane tube has achieved 20% cost saving compared to conventional Polyurethane Tube (UB).
- Excelled in mechanical strength and oil resistance, this ester base polyurethane tube is best suitable for air piping in factories.
- The polyurethane tube, featuring excellent flexibility, helps compact piping requiring small bending radius.
- The useful cut marks at 500mm interval are printed on the tube.
- Feet rolls are available in certain colors as standard.

Specifications

Model	UBT1/8	UBT5/32	UBT3/16	UBT1/4	UBT5/16	UBT3/8	UBT1/2	UBT0425	UBT0640	UBT0850	UBT1065	UBT1280
O.D.xI.D. (mm)	3.18x2	4x2.5	4.76x3	6.35x4.15	8x5	9.53x6	12.7x8.5	4x2.5	6x4	8x5	10x6.5	12x8
Tube length (m)	20 · 100						20 · 50 (**) · 100					
Tube color (○ : available)	Black (B)	○	○			○				○		
	Red (R)	○	—			○				○		
	Orange (O)	○	—			○				○		
	Yellow (Y)	○				○				○		
	Green (G)	○				○				○		
	Blue (Bu)	○	—			○				○		
	Clear blue (CB)	○	○			○				○		
	Transparent (C)	○	○			○				○		
	Milk-white (W)	○	—			○				○		
Fluid medium	Air											
Max. operating pressure	116psi (0.8MPa) (65%RH at 20°C *)											
Max. vacuum	-29.5in. Hg (-100kPa)											
Operating temp. range	-5 ~ 140°F (-15 ~ 60°C) (no freezing)											
Min. bending Radius (JIS) (mm)	8	10	15	20	30	10	15	20	30			
Min. Mounting Radius (VICE) (mm)	12	15	23	30	45	15	23	30	45			

* 1. 50M length is available only in black color with tube dia. metric sizes (not available with inch sizes)
 * 2. The value of max. operating pressure at 20°C 65%RH. When Tubes are used in different conditions, consider a safety ratio of the pressure with an enough margin, referring to Burst Pressure Curve. When Tubes are frequently swung and bent, there is a possibility of generating heat between molecules, and damaging the products.

Model Designation (Example)



- (1) Name of tube
- (2) Tube dia. (O.D./I.D.)

	inch size						
Code	1/8	5/32	3/16	1/4	5/16	3/8	1/2
O.D.	ø1/8in.	ø5/32in.	ø3/16in.	ø1/4in.	ø5/16in.	ø3/8in.	ø1/2in.
I.D.	ø0.08in.	ø0.10in.	ø0.12in.	ø0.16in.	ø0.20in.	ø0.24in.	ø0.33in.

	mm size				
Code	0425	0640	0850	1065	1280
O.D.	ø4mm	ø6mm	ø8mm	ø10mm	ø12mm
I.D.	ø2.5mm	ø4mm	ø5mm	ø6.5mm	ø8mm

- (3) Tube length

Code	20	50	100
Length	20m 65.6ft.	50m 164ft.	100m 328ft.

* Inch dia. tubings come in either 20m or 100m, or in feet rolls of either 100' or 500', are available in certain colors as standard.
 * 100m or 500' length comes on a reel while 20m and 100' is in a plastic bag.
 * The standard UBT 50m comes in black only for metric sizes only.

- (4) Tube color

Code	B	R	O	Y	G	Bu	CB	C	W
Color	Black	Red	Orange	Yellow	Green	Blue	Clear blue	Transparent	Milk-white
mm size	○	○	○	○	○	○	○	○	○
inch size	○	○	○	○	○	○	○	○	○
size	3/16	○	—	—	—	—	○	○	—

* The colors marked with ○ are available as standard.



UBT Polyurethane Tube	Model	
	mm	inch
	UBT0425-(3)-(4)	UBT1/8-(3)-(4)
	UBT0640-(3)-(4)	UBT5/32-(3)-(4)
	UBT0850-(3)-(4)	UBT3/16-(3)-(4)
	UBT1065-(3)-(4)	UBT1/4-(3)-(4)
	UBT1280-(3)-(4)	UBT5/16-(3)-(4)
		UBT3/8-(3)-(4)
		UBT1/2-(3)-(4)



Cautions

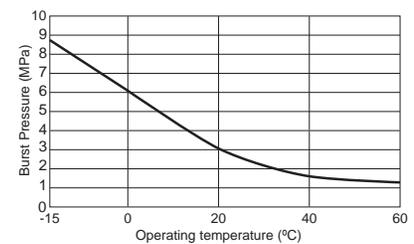
*Tube can be sold at desirable length as build-to-order production. Please make inquiry about the availability of feet length roll.



Package specifications

20M lengths /bag: Applicable to all types
 50M lengths/bag: Only black color in MM size is available

Burst Pressure Curve (Reference Value)



Note: In the American market, UBT tubing is often more readily available than UB tubing due to local stocking practices.

Polyurethane Tube

Straight Tube for General Pneumatic Piping

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)



(1) Polyurethane Tube

(2) Tube dia. (O.D.xI.D.)

Code	mm size (mm)								
	01810	0212	0320	0425(5/32)	0640	0850(5/16)	1065	1280	1611(5/8)
O.D.	ø1.8	ø2	ø3	ø4	ø6	ø8	ø10	ø12	ø16
I.D.	ø1	ø1.2	ø2	ø2.5	ø4	ø5	ø6.5	ø8	ø11

Code	inch size (inch)							
	1/8	0425 (5/32)	3/16	1/4	0850 (5/16)	3/8	1/2	1611 (5/8)
O.D.	ø1/8	ø5/32	ø3/16	ø1/4	ø5/16	ø3/8	ø1/2	ø5/8
I.D.	ø0.08	ø0.10	ø0.12	ø0.16	ø0.20	ø0.24	ø0.33	ø0.43

*1. Consult us when using non-PISCO brand tube fittings for our Polyurethane tube with tube O.D. 1.8 mm. It may cause fluid leakage or tube escape.

*2. The values in () in the row Code represent the tube O.D. in inches.

(3) Tube length

Code	20	50	100
Length (m)	20	50	100

*1. UB01810, UB0212, UB1611, and UB5/8 are available only in 20 m length.

*2. 50 m length is available only in black color with tube dia. of mm size.

(4) Tube color (○: Available)

Code	B	R	O	YB	Y	G	BU	CB	C	W
Tube color	Black	Red	Orange	Ocher	Yellow	Green	Blue	Clear blue	Transparent	Milky white
mm size	○	○	○	○	○	○	○	○	○	○
inch size	○	○	○		○	○	○		○	

*Standard colors of tube size UB0212 do not include ocher.

(5) Packaging spec. (Optional)

Code	No code	-C
Packaging	Standard packaging	Clean-room package

*Clean-room packaging is only available for Transparent with outer diameters of dia. 4 to 12 mm and total tube length of 20 m.

Characteristics

Best suitable for compact piping.

Featuring excellent flexibility and can be used with small bending radius.

A wide variety of tube colors.

Pipings can be identified by color or can be completed in the same colors as the devices.

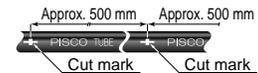
Ultra-small diameter 1.8 mm and 2 mm are available.

NEW New color dia. 2 mm tubes are now available.

Six new colors, including red, orange, yellow, green, blue, and milky white, are now available.

The cut marks at 500 mm interval are printed on the tube as a guide.

*The marks are just as a guide and the accuracy is not guaranteed.



Tubings longer than the packaged length can be requested as make-to-order production.

Tube diameter/Length List

Model code	Length (m)
UB0320	300
UB0425	500
UB0640	500
UB0850	500
UB1065	250
UB1280	200
UB1611	100

*1. The minimum order quantity of tubings longer than the packaged length is 500 m or more per order.

*2. Contact us for lengths not listed.

*3. Contact us for the reel winding.

*4. Contact us for tubes longer than the packaged length in inch size.

● Clean-room package (Optional)

Suitable for clean environment.

Cleaned and packaged in cleanroom ISO class 6 equivalent. Packaged in antistatic packaging material that prevents dust from sticking.

Specifications (○: Available)

Model code		mm size (mm)									inch size (inch)				
		UB01810	UB0212	UB0320	UB0425 (5/32")	UB0640	UB0850 (5/16")	UB1065	UB1280	UB1611 (5/8")	UB1/8	UB3/16	UB1/4	UB3/8	UB1/2
Size	O.D.xI.D.	1.8x1	2x1.2	3x2	4x2.5	6x4	8x5	10x6.5	12x8	16x11	1/8x0.08	3/16x0.12	1/4x0.16	3/8x0.24	1/2x0.33
	Tube length (m)	20									20 · 100				
Tube color: 10 colors	Black (B)	○	○				○								○
	Red (R)	○	○				○								○
	Orange (O)	○	○				○								○
	Ocher (YB)	○	-				○								-
	Yellow (Y)	○	○				○								○
	Green (G)	○	○				○								○
	Blue (BU)	○	○				○								○
	Clear blue (CB)	○	○				○								-
	Transparent (C)	○	○				○								○
	Milky white (W)	○	○				○								-
Specifications	Fluid medium	Air, Water (Conditional ^{*1})													
	Max. operating pressure (MPa)	1.0 (65% RH at 20°C ^{*2})													
	Max. vacuum (kPa)	-100													
	Operating temp. range (°C)	Air: -20 to 70 (No freezing)							Water: -15 to 60 (No freezing)						
	Min. bending radius (JIS) (mm)	4	8	10	15	20	30	60	8	15	20	30			
	Min. installation radius (Vice) (mm)	6	12	15	23	30	45	90	12	23	30	45			

△ Warning

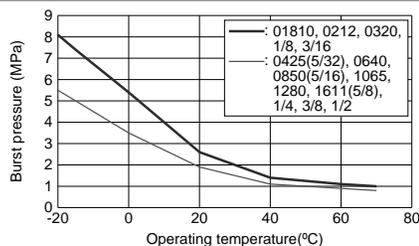
*1. The following conditions must be observed when the fluid medium is water.

- (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 place Insert Ring (WR) into the tube edge when tube is inserted into push-in fittings and using water as a fluid medium. Except UB01810, 0212.

*2. The value of max. operating pressure is measured at 20°C and 65% RH. For other temperatures, the Burst Pressure Curve should be used with a sufficient safety margin. In addition, if the tube is in a moving part, such as a swinging or bending part, the temperature may rise due to self-heating caused by intermolecular heat generation, which may cause the tube to break.

⊕Note* 50 m Length is available only in Black.

Burst Pressure Curve (Reference Value)



Related product



Tube End Marker (not for sale)

- ▶ Enables to mark the tube insertion dimension and prevent insufficient insertion.
- ▶ Can be used for PISCO Push-in fittings.

Contact us for more information about Tube End Markers.

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

Tube type	Model code
Polyurethane Tube UB	UB01810-20- <u>4</u>
	UB0212-20- <u>4</u>
	UB0320- <u>3</u> - <u>4</u>
	UB0425- <u>3</u> - <u>4</u> - <u>5</u>
	UB0640- <u>3</u> - <u>4</u> - <u>5</u>
	UB0850- <u>3</u> - <u>4</u> - <u>5</u>
	UB1065- <u>3</u> - <u>4</u> - <u>5</u>
	UB1280- <u>3</u> - <u>4</u> - <u>5</u>
	UB1611-20- <u>4</u>
	UB ^{1/8} - <u>3</u> - <u>4</u>
	UB ^{3/16} - <u>3</u> - <u>4</u>
	UB ^{1/4} - <u>3</u> - <u>4</u>
	UB ^{3/8} - <u>3</u> - <u>4</u>
	UB ^{1/2} - <u>3</u> - <u>4</u>



Notes

- *1. Tubes with desired length are available as make-to-order items. Contact us for the price.
- *2. For 3 in model code, please select a code of tube length, for 4, please select a tube color code.



Packaging specifications

- 20 M lengths/bag: Applicable to all types
- 50 M lengths/bag: Only black color in mm size except UB01810, 0212 is available
- 100 M lengths/box: All types except UB01810, 0212, 1611.



Option

- 5 : -C ⇒ Clean-room package

Note: In the American market, UBT tubing is often more readily available than UB tubing due to local stocking practices.