



## Push-In Fitting Type for Pneumatic Piping

### ❖ See "Find Part #" for Imperial/Inch/ Metric/NPT Push-In fitting

● *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 Fittings.*

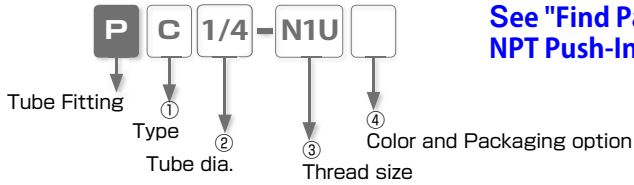
● *Rotatable Resin Body after Installation.*

● *Manifold 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)



See "Find Part #" for Inch NPT Push-In fitting models

### 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
O.D. (inch)	5/32	3/16	1/4	5/16	3/8	1/2	5/8						

※ Visit **MINI** fittings for 1/8" O.D. or 3mm, 2mm, 1.8mm O.D. and 1/4", 5/32", 4mm, 6mm O.D. with smaller body fitting.

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

Thread	UNF thread	National pipe taper thread				
	Code	U10U	N0U	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	Metric thread (mm)		British pipe taper 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

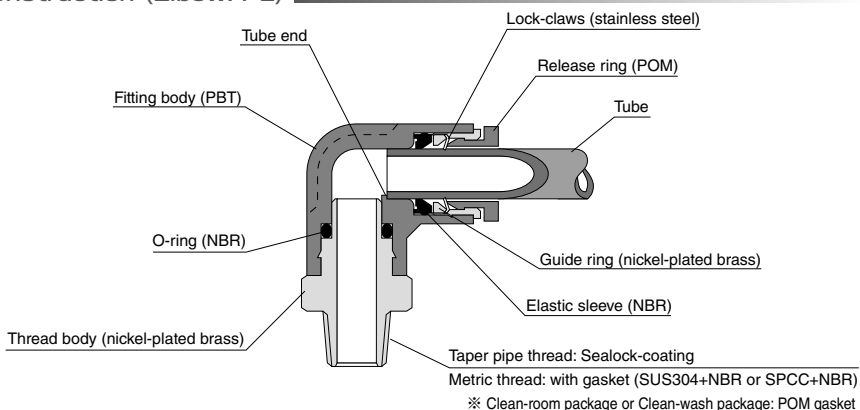
## Specifications

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.

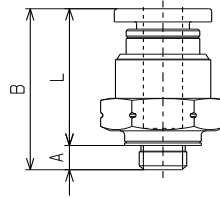
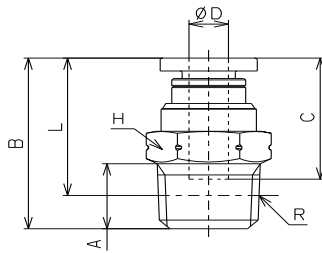
### Caution (Clean-wash package)

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.



# Straight

RoHS compliant



Unified thread

## ❖ NPT and UNF thread

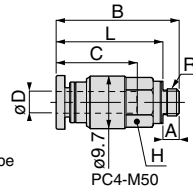
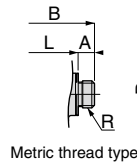
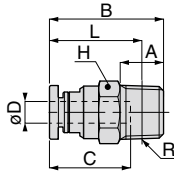
unit: inch

Model	Tube O.D. φ D	R	A	B	L	C	Hex.	Orifice (φ mm)	Weight (g)
PC5/32-U10U	5/32	10-32UNF	0.11	0.78	0.67	0.59	7/16	2.4	6.2
PC5/32-N0U	5/32	1/16 NPT	0.31	0.83	0.67	0.59	7/16	3	6.5
PC5/32-N1U	5/32	1/8 NPT	0.31	0.83	0.67	0.59	7/16	3	8.3
PC5/32-N2U	5/32	1/4 NPT	0.43	0.89	0.66	0.59	9/16	3	17
PC3/16-U10U	3/16	10-32UNF	0.11	0.88	0.77	0.69	1/2	2.4	9.2
PC3/16-N0U	3/16	1/16 NPT	0.31	1.05	0.89	0.69	1/2	3	12
PC3/16-N1U	3/16	1/8 NPT	0.31	0.89	0.73	0.69	1/2	4	10
PC3/16-N2U	3/16	1/4 NPT	0.43	0.95	0.72	0.69	9/16	4	16
PC3/16-N3U	3/16	3/8 NPT	0.47	0.98	0.74	0.69	11/16	4	30
PC1/4-U10U	1/4	10-32UNF	0.11	0.86	0.75	0.67	1/2	2.4	8.6
PC1/4-N0U	1/4	1/16 NPT	0.31	1.03	0.87	0.67	1/2	3	11
PC1/4-N1U	1/4	1/8 NPT	0.31	0.88	0.71	0.67	1/2	5.3	8.6
PC1/4-N2U	1/4	1/4 NPT	0.43	0.93	0.70	0.67	9/16	5.3	15
PC1/4-N3U	1/4	3/8 NPT	0.47	0.96	0.72	0.67	11/16	5.3	29
PC5/16-N1U	5/16	1/8 NPT	0.31	1.10	0.94	0.72	9/16	6	14
PC5/16-N2U	5/16	1/4 NPT	0.43	1.05	0.82	0.72	9/16	7	15
PC5/16-N3U	5/16	3/8 NPT	0.47	1.00	0.76	0.72	11/16	7	26
PC3/8-N1U	3/8	1/8 NPT	0.31	1.19	1.03	0.81	11/16	6	23
PC3/8-N2U	3/8	1/4 NPT	0.43	1.17	0.94	0.81	11/16	8.5	20
PC3/8-N3U	3/8	3/8 NPT	0.47	1.15	0.91	0.81	11/16	8.5	26
PC3/8-N4U	3/8	1/2 NPT	0.59	1.20	0.88	0.81	7/8	8.5	49
PC1/2-N2U	1/2	1/4 NPT	0.43	1.41	1.18	0.91	7/8	8.5	38
PC1/2-N3U	1/2	3/8 NPT	0.47	1.25	1.01	0.91	7/8	11	31
PC1/2-N4U	1/2	1/2 NPT	0.59	1.33	1.01	0.91	7/8	11	45
PC5/8-N3U	5/8	3/8 NPT	0.47	1.55	1.31	0.98	1	11	61
PC5/8-N4U	5/8	1/2 NPT	0.59	1.63	1.31	0.98	1	13	69
PC4-U10U	4mm	10-32UNF	0.11	0.78	0.67	0.59	7/16	2.4	6.2
PC4-N0U	4mm	1/16 NPT	0.31	0.83	0.67	0.59	7/16	2.4	6.5
PC4-N1U	4mm	1/8 NPT	0.31	0.83	0.67	0.59	7/16	3	8.3
PC4-N2U	4mm	1/4 NPT	0.43	0.89	0.66	0.59	9/16	3	17
PC6-U10U	6mm	10-32UNF	0.11	0.86	0.75	0.67	1/2	2.4	8.7
PC6-N0U	6mm	1/16 NPT	0.31	1.03	0.87	0.67	1/2	2.4	11
PC6-N1U	6mm	1/8 NPT	0.31	0.88	0.71	0.67	1/2	5	8.8
PC6-N2U	6mm	1/4 NPT	0.43	0.93	0.70	0.67	9/16	5	15
PC6-N3U	6mm	3/8 NPT	0.47	0.96	0.72	0.67	11/16	5.3	30
PC8-N1U	8mm	1/8 NPT	0.31	1.10	0.94	0.72	9/16	6	14
PC8-N2U	8mm	1/4 NPT	0.43	1.05	0.82	0.72	9/16	7	15
PC8-N3U	8mm	3/8 NPT	0.47	1.00	0.76	0.72	11/16	7	26
PC10-N1U	10mm	1/8 NPT	0.31	1.19	1.03	0.81	11/16	6	23
PC10-N2U	10mm	1/4 NPT	0.43	1.17	0.94	0.81	11/16	8.5	20
PC10-N3U	10mm	3/8 NPT	0.47	1.15	0.91	0.81	11/16	9	25
PC10-N4U	10mm	1/2 NPT	0.59	1.20	0.88	0.81	7/8	9	48
PC12-N2U	12mm	1/4 NPT	0.43	1.41	1.19	0.92	7/8	8.5	39
PC12-N3U	12mm	3/8 NPT	0.47	1.26	1.02	0.92	7/8	11	32
PC12-N4U	12mm	1/2 NPT	0.59	1.33	1.02	0.92	7/8	11	46
PC16-N3U	16mm	3/8 NPT	0.47	1.55	1.31	0.98	1	11	61
PC16-N4U	16mm	1/2 NPT	0.59	1.63	1.31	0.98	1	13	69

1/8" O.D. and 5/32", 1/4" with smaller body fitting - see Fitting Mini

# PC Straight

RoHS compliant



## ❖ Metric thread

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	6	PC4-M6_[C]		
PC4-01④			R1/8	8	21		17	10	3	7.4	PC4-01_
PC4-02④		R1/4	11	22.5	16.5	14	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				3.8	22.9			19.1	12	3	8.5
PC6-01④		R1/8	8	22.3	18.3		14	5	8.2	15	PC6-01_
PC6-02④			R1/4	11	23.7				17.6	17	28
PC6-03④	R3/8	12	24.5	18.1	17	5	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	25	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			9	24	PC10-03_	
PC10-04④		R1/2	15	30.4	22.2			21	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			14	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				8	21			17	3	7.4	PC5_32-01_
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				8	22.7			18.7	4	9	PC3_16-01_
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				8	22.3			18.3	5.3	15	PC1_4-01_
PC1/4-02④		R1/4	11	23.7	17.6		14	15	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	25	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		25	25	PC3_8-03_		
PC3/8-04④		R1/2	15	30.4	22.2		21	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	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

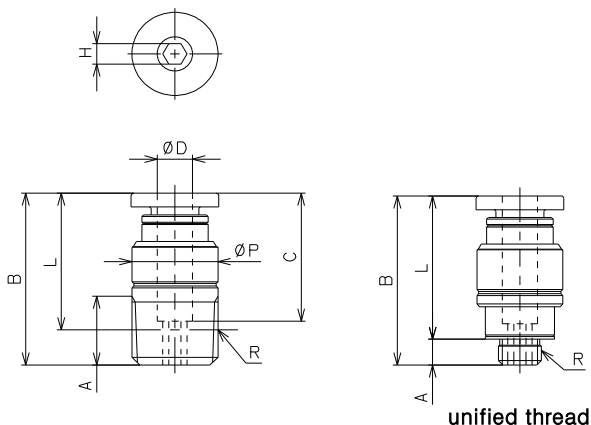
\*2. "L" is a reference value for height dimension after tightening taper thread.

\*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**

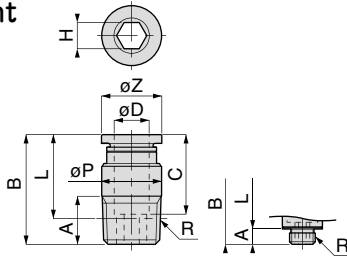
unit: inch

Model	Tube O.D. φD	R	A	B	L	C	Hex.	φ P	Orifice (φ mm)	Weight (g)
POC5/32-U10U	5/32	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 NPT	0.31	0.79	0.63	0.59	3/32	0.38	2.5	6.5
POC3/16-U10U	3/16	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 NPT	0.31	0.89	0.72	0.69	1/8	0.46	3.3	8.3
POC1/4-U10U	1/4	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 NPT	0.31	0.87	0.70	0.67	5/32	0.46	4.1	7.4
POC1/4-N2U	1/4	1/4 NPT	0.43	0.84	0.61	0.67	5/32	0.54	4.1	13
POC5/16-N1U	5/16	1/8 NPT	0.31	1.02	0.86	0.72	3/16	0.54	5	9
POC5/16-N2U	5/16	1/4 NPT	0.43	0.99	0.76	0.72	7/32	0.54	5.8	13
POC5/16-N3U	5/16	3/8 NPT	0.47	0.87	0.63	0.72	7/32	0.66	5.8	19
POC3/8-N1U	3/8	1/8 NPT	0.31	1.19	1.03	0.81	3/16	0.69	5	18
POC3/8-N2U	3/8	1/4 NPT	0.43	1.17	0.94	0.81	7/32	0.69	5.8	22
POC3/8-N3U	3/8	3/8 NPT	0.47	1.15	0.91	0.81	7/32	0.69	5.8	28
POC3/8-N4U	3/8	1/2 NPT	0.59	1.19	0.87	0.81	7/32	0.82	5.8	45
POC1/2-N2U	1/2	1/4 NPT	0.43	1.41	1.18	0.91	7/32	0.82	5.8	30
POC1/2-N3U	1/2	3/8 NPT	0.47	1.25	1.01	0.91	5/16	0.82	8.3	30
POC1/2-N4U	1/2	1/2 NPT	0.59	1.33	1.01	0.91	5/16	0.82	8.3	44
POC4-U10U	4mm	10-32UNF	0.11	0.78	0.67	0.59	3/32	0.38	2.5	4.6
POC4-N1U	4mm	1/8 NPT	0.31	0.79	0.63	0.59	3/32	0.38	2.5	6.5
POC6-U10U	6mm	10-32UNF	0.11	0.84	0.73	0.67	3/32	0.46	2.5	5.6
POC6-N1U	6mm	1/8 NPT	0.31	0.87	0.70	0.67	5/32	0.46	4.1	7.6
POC8-N1U	8mm	1/8 NPT	0.31	1.02	0.86	0.72	3/16	0.54	5	9
POC8-N2U	8mm	1/4 NPT	0.43	0.99	0.76	0.72	7/32	0.54	5.8	13

1/8" O.D. and 5/32", 1/4" with smaller body fitting - see Fitting Mini

# POC Inner Hex. Straight

RoHS compliant



Metric thread type

## ❖ Metric thread

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-M5 <sup>(4)</sup>	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-M6 <sup>(4)</sup>		M6×1	3.8	20.7	16.9						5.4	POC4-M6_C
POC4-01 <sup>(4)</sup>		R1/8	8	20	16						6.6	POC4-01_
POC6-M5 <sup>(4)</sup>	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-M6 <sup>(4)</sup>		M6×1	3.8	22.3	18.5		3			6.3	POC6-M6_C	
POC6-01 <sup>(4)</sup>		R1/8	8	22.1	18.1		4			7.6	POC6-01_	
POC6-02 <sup>(4)</sup>		R1/4	11	21.3	15.2		13.7			13	POC6-02_	
POC8-01 <sup>(4)</sup>	8	R1/8	8	25.9	21.9	18.2	5	13.7	13.8	5.3	8.8	POC8-01_
POC8-02 <sup>(4)</sup>		R1/4	11	25.1	19.1		6			13	POC8-02_	
POC8-03 <sup>(4)</sup>		R3/8	12	22.2	15.9		16.8			19	POC8-03_	
POC10-01 <sup>(4)</sup>	10	R1/8	8	30.3	26.3	20.7	5	17.5	16.8	5.3	17	POC10-01_
POC10-02 <sup>(4)</sup>		R1/4	11	29.8	23.8		6			20	POC10-02_	
POC10-03 <sup>(4)</sup>		R3/8	12	29.3	23					6.3	26	POC10-03_
POC10-04 <sup>(4)</sup>		R1/2	15	30.3	22.1					20.8	45	POC10-04_
POC12-02 <sup>(4)</sup>	12	R1/4	11	35.9	29.9	23.3	6	20.8	19.8	6.3	29	POC12-02_
POC12-03 <sup>(4)</sup>		R3/8	12	31.9	25.6		8			31	POC12-03_	
POC12-04 <sup>(4)</sup>		R1/2	15	33.9	25.7					8.4	45	POC12-04_
POC16-03 <sup>(4)</sup>	16	R3/8	12	39.3	33	24.8	10	26	23	10.5	61	POC16-03_
POC16-04 <sup>(4)</sup>		R1/2	15	40.3	32.1		12			12.6	65	POC16-04_
POC1/4-M5 <sup>(4)</sup>	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
POC1/4-01 <sup>(4)</sup>		R1/8	8	22.1	18.1		4			7.5	POC1_4-01_	
POC1/4-02 <sup>(4)</sup>		R1/4	11	21.3	15.2		13.7			12	POC1_4-02_	
POC5/16-01 <sup>(4)</sup>	5/16"	R1/8	8	25.9	21.9	18.2	5	13.7	13.8	5.3	8.8	POC5_16-01_
POC5/16-02 <sup>(4)</sup>		R1/4	11	25.1	19.1		6			13	POC5_16-02_	
POC5/16-03 <sup>(4)</sup>		R3/8	12	22.2	15.9		16.8			19	POC5_16-03_	
POC3/8-02 <sup>(4)</sup>	3/8"	R1/4	11	29.8	23.8	20.7	6	17.5	16.8	6.3	21	POC3_8-02_
POC3/8-03 <sup>(4)</sup>		R3/8	12	29.3	23					27	POC3_8-03_	
POC3/8-04 <sup>(4)</sup>		R1/2	15	30.3	22.1					20.8	46	POC3_8-04_

\* 1. <sup>(4)</sup> 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

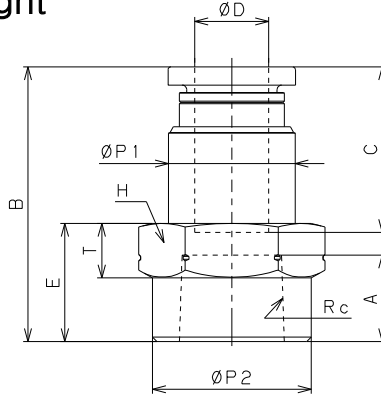
\* 2. "L" is a reference value for height dimension after tightening taper thread.

\* 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

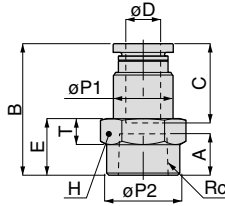
Model	Tube O.D. φ D	Rc	A	B	E	φ P1	φ P2	C	Hex.	T	Orifice (φ mm)	Wt. (g)
PCF5/32-U10U	5/32	10-32UNF	0.18	0.84	0.31	0.38	0.35	0.59	7/16	0.16	3	8.2
PCF5/32-N1U	5/32	1/8 NPT	0.28	0.94	0.39	0.38	0.54	0.59	9/16	0.20	3	13
PCF5/32-N2U	5/32	1/4 NPT	0.37	1.06	0.51	0.38	0.68	0.59	11/16	0.24	3	20
PCF3/16-U10U	3/16	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 NPT	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 NPT	0.37	1.16	0.51	0.46	0.68	0.69	11/16	0.24	4	23
PCF1/4-U10U	1/4	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	0.51	1.54	0.67	0.82	0.99	0.91	1	0.28	11	58
PCF4-N1U	4mm	1/8 NPT	0.28	0.94	0.39	0.38	0.54	0.59	9/16	0.20	3	13
PCF4-N2U	4mm	1/4 NPT	0.37	1.06	0.51	0.38	0.68	0.59	11/16	0.24	3	20
PCF6-N1U	6mm	1/8 NPT	0.28	1.02	0.39	0.46	0.54	0.67	9/16	0.20	5	15
PCF6-N2U	6mm	1/4 NPT	0.37	1.14	0.51	0.46	0.68	0.67	11/16	0.24	5	22
PCF8-N1U	8mm	1/8 NPT	0.28	1.07	0.39	0.54	0.54	0.72	9/16	0.20	7	16
PCF8-N2U	8mm	1/4 NPT	0.37	1.19	0.51	0.54	0.68	0.72	11/16	0.24	7	23
PCF10-N2U	10mm	1/4 NPT	0.37	1.29	0.51	0.69	0.66	0.81	11/16	0.24	9	29
PCF12-N2U	12mm	1/4 NPT	0.37	1.37	0.53	0.82	0.66	0.92	7/8	0.26	11	44
PCF12-N3U	12mm	3/8 NPT	0.41	1.43	0.55	0.82	0.86	0.92	7/8	0.26	11	48

1/8" O.D. and 5/32" with smaller body fitting - see Fitting Mini



# PCF Female Straight

RoHS compliant



## ❖ Metric thread

Unit : mm

Model code	Tube O.D. $\phi D$	Rc	A	B	E	$\phi P1$	$\phi P2$	Tube end C	Hex. H	T	Orifice bore ( $\phi$ 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	PCF6-01_
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					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					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					53	PCF1_2-04_	

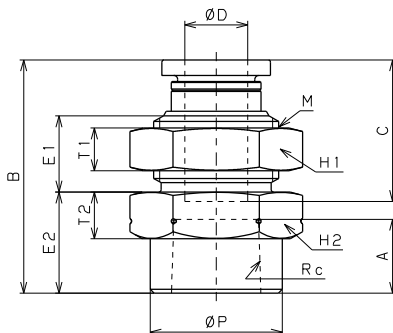
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

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



# Bulkhead Female Straight

RoHS compliant



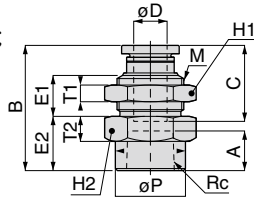
## ❖ NPT thread

unit: inch

Model	Tube O.D. φ D	Rc	M	B	E1	E2	A	C	φ P	Hex. H1	Hex. H2	T1	T2	Orifice (φ mm)	Wt (g)
PMF5/32-N1U	5/32	1/8 NPT	1/2 UNF	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 NPT	1/2 UNF	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 NPT	9/16 UNF	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 NPT	9/16 UNF	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 NPT	9/16 UNF	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 NPT	9/16 UNF	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 NPT	9/16 UNF	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 NPT	5/8 UNF	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 NPT	5/8 UNF	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 NPT	5/8 UNF	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 NPT	7/8 UNF	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 NPT	7/8 UNF	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 NPT	7/8 UNF	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 NPT	7/8 UNF	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 NPT	7/8 UNF	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 NPT	7/8 UNF	1.54	0.49	0.67	0.51	0.91	0.99	1	1	0.28	0.28	11	70
PMF4-N1U	4mm	1/8 NPT	1/2 UNF	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 NPT	9/16 UNF	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 NPT	9/16 UNF	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 NPT	5/8 UNF	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 NPT	5/8 UNF	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 NPT	7/8 UNF	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 NPT	7/8 UNF	1.43	0.49	0.55	0.41	0.92	0.82	1	1	0.28	0.28	11	68

# PMF Bulkhead Female Straight

RoHS compliant



Unit : mm

## ❖ Metric thread

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	17	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	19	4	6	5	25	PMF6-01_					
PMF6-02 ④		Rc1/4		28.7		12.3										9.5	16.8	19	6	26	PMF6-02_
PMF6-03 ④		Rc3/8		30.4		14										10.5	19.5	19	6	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	6	32	PMF8-02_
PMF8-03 ④		Rc3/8		31		14										10.5	19.5	19	6	30	PMF8-03_
PMF10-02 ④		Rc1/4		32.7		13										9.5	16.8	24	5	55	PMF10-02_
PMF10-03 ④	Rc3/8	33.7	14	10.5	20.8	24	7	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	7	67	PMF12-03_
PMF12-04 ④		Rc1/2		39.3		17										13	25	24	7	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	9	15	110

※ 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

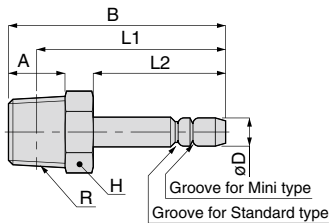
※ 2. Orifice bore is the smallest passage converted in terms of the diameter.

# PTJ PT Jack

RoHS compliant



Metric thread type



## ❖ Metric thread

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		R3/8	12	41.5	35.2		17		8	30

※ 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.

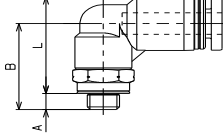
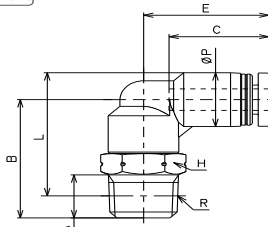
※ 5. Dimensions in [ ] are for clean-room and clean-wash package products

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

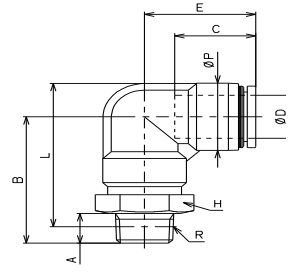


# Elbow

RoHS compliant



Unified thread



5/8 inch, 16mm x NPT

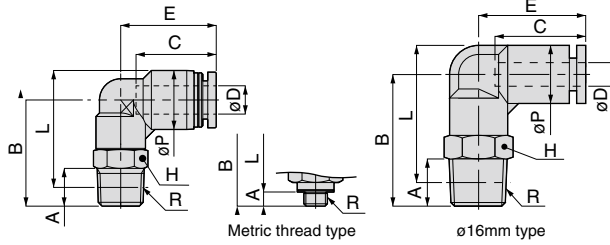
## ❖ NPT and UNF thread

unit: inch

Model	Tube O.D. φ D	R	A	B	L	φ P	C	E	Hex.	Orifice (φ mm)	Weight (g)
PL5/32-U10U	5/32	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 NPT	0.31	0.87	0.90	0.39	0.59	0.74	7/16	2.8	12
PL5/32-N1U	5/32	1/8 NPT	0.31	0.87	0.90	0.39	0.59	0.74	7/16	2.8	11
PL5/32-N2U	5/32	1/4 NPT	0.43	1.14	1.11	0.39	0.59	0.81	9/16	2.8	18
PL3/16-U10U	3/16	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 NPT	0.31	0.89	0.97	0.49	0.69	0.81	7/16	3.3	14
PL3/16-N1U	3/16	1/8 NPT	0.31	0.89	0.97	0.49	0.69	0.81	7/16	3.3	12
PL3/16-N2U	3/16	1/4 NPT	0.43	1.10	1.12	0.49	0.69	0.87	9/16	3.3	19
PL3/16-N3U	3/16	3/8 NPT	0.47	1.17	1.18	0.49	0.68	0.80	11/16	3.9	37
PL1/4-U10U	1/4	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 NPT	0.31	0.89	0.97	0.49	0.67	0.80	7/16	4.6	13
PL1/4-N1U	1/4	1/8 NPT	0.31	0.89	0.97	0.49	0.67	0.80	7/16	4.6	12
PL1/4-N2U	1/4	1/4 NPT	0.43	1.10	1.12	0.49	0.67	0.86	9/16	5.3	19
PL1/4-N3U	1/4	3/8 NPT	0.47	1.24	1.25	0.49	0.67	0.94	11/16	5.3	31
PL5/16-N1U	5/16	1/8 NPT	0.31	0.94	1.07	0.57	0.71	0.89	1/2	6	15
PL5/16-N2U	5/16	1/4 NPT	0.43	1.10	1.16	0.57	0.71	0.93	9/16	6.7	20
PL5/16-N3U	5/16	3/8 NPT	0.47	1.22	1.27	0.57	0.71	0.97	11/16	6.7	32
PL3/8-N1U	3/8	1/8 NPT	0.31	0.98	1.17	0.69	0.80	1.00	1/2	6	19
PL3/8-N2U	3/8	1/4 NPT	0.43	1.12	1.24	0.69	0.80	1.02	9/16	8	24
PL3/8-N3U	3/8	3/8 NPT	0.47	1.26	1.37	0.69	0.80	1.06	11/16	8.2	36
PL3/8-N4U	3/8	1/2 NPT	0.59	1.42	1.44	0.69	0.80	1.08	7/8	8.2	60
PL1/2-N2U	1/2	1/4 NPT	0.43	1.17	1.36	0.83	0.93	1.15	9/16	8	26
PL1/2-N3U	1/2	3/8 NPT	0.47	1.28	1.45	0.83	0.93	1.18	11/16	10	38
PL1/2-N4U	1/2	1/2 NPT	0.59	1.44	1.53	0.83	0.93	1.22	7/8	10.9	63
PL5/8-N3U	5/8	3/8 NPT	0.43	1.85	2.10	0.98	0.95	1.30	1	11	90
PL5/8-N4U	5/8	1/2 NPT	0.59	2.01	2.18	0.98	0.95	1.30	1	13	94
PL4-U10U	4mm	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 NPT	0.31	0.87	0.90	0.39	0.59	0.74	7/16	2.8	12
PL4-N1U	4mm	1/8 NPT	0.31	0.87	0.90	0.39	0.59	0.74	7/16	2.8	11
PL4-N2U	4mm	1/4 NPT	0.43	1.14	1.11	0.39	0.59	0.81	9/16	2.8	18
PL6-U10U	6mm	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 NPT	0.31	0.89	0.97	0.49	0.67	0.80	7/16	4.2	13
PL6-N1U	6mm	1/8 NPT	0.31	0.89	0.97	0.49	0.67	0.80	7/16	4.2	12
PL6-N2U	6mm	1/4 NPT	0.43	1.10	1.12	0.49	0.67	0.86	9/16	4.3	19
PL6-N3U	6mm	3/8 NPT	0.47	1.24	1.25	0.49	0.67	0.94	11/16	4.3	31
PL8-N1U	8mm	1/8 NPT	0.31	0.94	1.07	0.57	0.71	0.89	1/2	6	15
PL8-N2U	8mm	1/4 NPT	0.43	1.10	1.16	0.57	0.71	0.93	9/16	6.7	20
PL8-N3U	8mm	3/8 NPT	0.47	1.22	1.27	0.57	0.71	0.97	11/16	6.7	32
PL10-N1U	10mm	1/8 NPT	0.31	0.98	1.17	0.69	0.80	1.00	1/2	6	19
PL10-N2U	10mm	1/4 NPT	0.43	1.12	1.24	0.69	0.80	1.02	9/16	8	24
PL10-N3U	10mm	3/8 NPT	0.47	1.26	1.37	0.69	0.80	1.06	11/16	8.3	36
PL10-N4U	10mm	1/2 NPT	0.59	1.42	1.44	0.69	0.80	1.08	7/8	8.3	60
PL12-N2U	12mm	1/4 NPT	0.43	1.17	1.36	0.83	0.92	1.14	9/16	8	27
PL12-N3U	12mm	3/8 NPT	0.47	1.28	1.45	0.83	0.92	1.17	11/16	10	39
PL12-N4U	12mm	1/2 NPT	0.59	1.44	1.53	0.83	0.92	1.21	7/8	10.3	63
PL16-N3U	16mm	3/8 NPT	0.43	1.85	2.10	0.98	0.95	1.30	1	11	90
PL16-N4U	16mm	1/2 NPT	0.59	2.01	2.18	0.98	0.95	1.30	1	13	94

# PL Elbow

RoHS compliant



Metric thread type

$\phi 16\text{mm}$  type

Unit : mm

## ✦ Metric thread

Model code	Model code	R	A	B	L	$\phi P$	Tube end C	E	Hex. H	Orifice bore ( $\phi$ mm)	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	2.8	8	PL4-M6_[C]
PL4-01④		R1/8	8	22	23			2.8	10	PL4-01_		
PL4-02④		R1/4	11	29	28				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	PL6-01_		
PL6-02④		R1/4	11	28	28.2				19	PL6-02_		
PL6-03④	R3/8	12	31.5	31.4	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	6.7	20	PL8-02_
PL8-03④		R3/8	12	31	31.9			24.7	17		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	PL10-03_
PL10-04④		R1/2	15	36	36.6			27.5	21		57	PL10-04_
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	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	2.8	10	PL5_32-01_
PL5/32-02④		R1/4	11	29	28			20.7	14		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			3.3	11	PL3_16-01_		
PL3/16-02④		R1/4	11	28	28.2				22.2	14	19	PL3_16-02_
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			4.6	11	PL1_4-01_		
PL1/4-02④		R1/4	11	28	28.2				21.8	14	5.3	18
PL1/4-03④		R3/8	12	31.5	31.4			23.8	17	29		PL1_4-03_
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	6.7	20	PL5_16-02_
PL5/16-03④		R3/8	12	31	31.9			24.7	17		31	PL5_16-03_
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	PL3_8-02_
PL3/8-03④		R3/8	12	32	34.4			27	17	8.2	35	PL3_8-03_
PL3/8-04④		R1/2	15	36	36.6			27.5	21		58	PL3_8-04_
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	PL1_2-03_
PL1/2-04④		R1/2	15	36.5	38.8			31	21	10.9	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	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

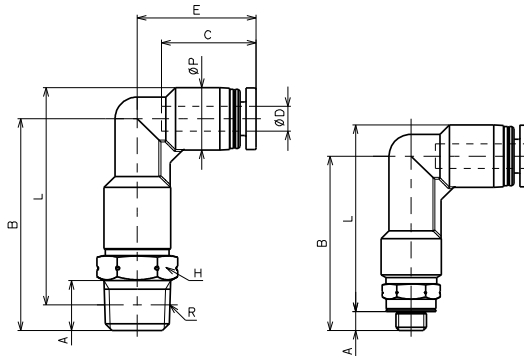
※ 2. "L" is a reference value for height dimension after tightening taper thread.

※ 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

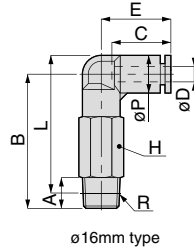
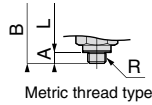
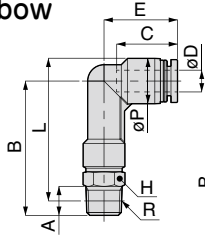
❖ NPT and UNF thread

unit: inch

Model	Tube OD. φ D	R	A	B	L	φ P	C	E	Hex.	Orifice (φ mm)	Weight (g)
PLL5/32-U10U	5/32	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 NPT	0.31	1.34	1.37	0.39	0.59	0.74	7/16	2.8	12
PLL5/32-N2U	5/32	1/4 NPT	0.43	1.61	1.58	0.39	0.59	0.81	9/16	2.8	20
PLL3/16-U10U	3/16	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 NPT	0.31	1.46	1.54	0.49	0.69	0.81	7/16	3.3	14
PLL3/16-N2U	3/16	1/4 NPT	0.43	1.67	1.69	0.49	0.69	0.87	9/16	3.3	21
PLL3/16-N3U	3/16	3/8 NPT	0.47	1.70	1.71	0.49	0.68	0.80	11/16	3.9	64
PLL1/4-U10U	1/4	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 NPT	0.31	1.46	1.54	0.49	0.67	0.80	7/16	4.6	13
PLL1/4-N2U	1/4	1/4 NPT	0.43	1.67	1.69	0.49	0.67	0.86	9/16	5.3	21
PLL1/4-N3U	1/4	3/8 NPT	0.47	1.81	1.82	0.49	0.67	0.94	11/16	5.3	35
PLL5/16-N1U	5/16	1/8 NPT	0.31	1.59	1.72	0.57	0.71	0.89	1/2	6	17
PLL5/16-N2U	5/16	1/4 NPT	0.43	1.75	1.81	0.57	0.71	0.93	9/16	6.7	23
PLL5/16-N3U	5/16	3/8 NPT	0.47	1.87	1.92	0.57	0.71	0.97	11/16	6.7	36
PLL3/8-N1U	3/8	1/8 NPT	0.31	1.75	1.93	0.69	0.80	1.00	1/2	6	21
PLL3/8-N2U	3/8	1/4 NPT	0.43	1.89	2.01	0.69	0.80	1.02	9/16	8	27
PLL3/8-N3U	3/8	3/8 NPT	0.47	2.03	2.13	0.69	0.80	1.06	11/16	8.2	40
PLL3/8-N4U	3/8	1/2 NPT	0.59	2.19	2.21	0.69	0.80	1.06	7/8	8.2	66
PLL1/2-N2U	1/2	1/4 NPT	0.43	2.08	2.26	0.83	0.93	1.15	9/16	8	30
PLL1/2-N3U	1/2	3/8 NPT	0.47	2.19	2.36	0.83	0.93	1.18	11/16	10	43
PLL1/2-N4U	1/2	1/2 NPT	0.59	2.34	2.44	0.83	0.93	1.18	7/8	10.9	70

# PLL Long Elbow

RoHS compliant



## ❖ Metric thread

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	20.3	10	4.3	13	PLL6-01_
PLL6-02 ④		R1/4	11	42.5	42.7				12.5			17	21.8	14	4.3	20	PLL6-02_
PLL6-03 ④	6	R3/8	12	46	45.9	12.5	17	23.8	17	2.4	33	PLL6-03_					
PLL8-01 ④		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
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

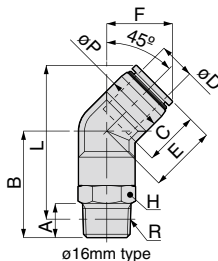
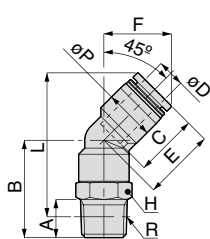
\* 2. "L" is a reference value for height dimension after tightening taper thread.

\* 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 the same as PLH5/16-N1U and PLH5/16-N2U respectively.

## ❖ NPT thread

unit: inch

Model	Tube O.D. φ D	R	A	B	L	E	F	φ P	C	Hex.	Orifice φ (mm)	Weight (g)
PLH5/16-N1U	5/16	1/8 NPT	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 NPT	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 NPT	0.31	0.94	1.56	0.88	0.78	0.57	0.67	1/2	4.6	17

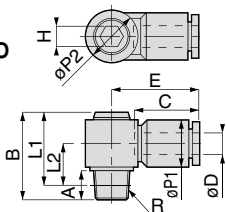
## ❖ Metric thread

Unit : mm

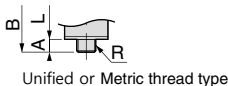
Model code	Tube O.D. øD	R	A	B	L	E	F	øP	Tube end C	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PLH8-01 ④	8	R1/8	8	24	39.4	20.7	19.4	14.5	18.1	12	6	14	PLH8-01_
PLH8-02 ④		R1/4	11	28	41.4					14	20	20	PLH8-02_
PLH8-03 ④		R3/8	12	31	44					17	31	31	PLH8-03_
PLH10-01 ④	10	R1/8	8	25	43.7	23.9	22.7	17.5	20.2	12	6	18	PLH10-01_
PLH10-02 ④		R1/4	11	28.5	45.2					14	8	23	PLH10-02_
PLH10-03 ④		R3/8	12	33	49.4					17	35	35	PLH10-03_
PLH10-04 ④	R1/2	15	37	51.6	21	58	58	PLH10-04_					
PLH12-02 ④	12	R1/4	11	29.8	51	29	27.3	21	23.4	14	8	27	PLH12-02_
PLH12-03 ④		R3/8	12	32.5	53.5	29.1	27.4			17	9.5	38	PLH12-03_
PLH12-04 ④		R1/2	15	36.5	55.7	21	10.3			61	PLH12-04_		
PLH16-03 ④	16	R3/8	11	43	65.6	29.8	29	25	24.1	22	11	73	PLH16-03_
PLH16-04 ④		R1/2	15	47	67.8						13	78	78

# POL Hex. Holed Banjo

RoHS compliant



Ask for the dimensions of POL8-N1U  
POL12-N3U



Unified or Metric thread type

## ❖ NPT thread

unit: inch

Model	Tube O.D. φ D	R	A	B	L1	L2	φ P1	φ P2	C	E	Hex.	Orifice φ (mm)	Wt (g)
POL1/4-N1U	1/4	1/8 NPT	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 NPT	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 NPT	0.43	1.34	1.11	0.60	0.71	0.84	0.81	1.21	5/16	7.5	43

## ❖ Metric thread

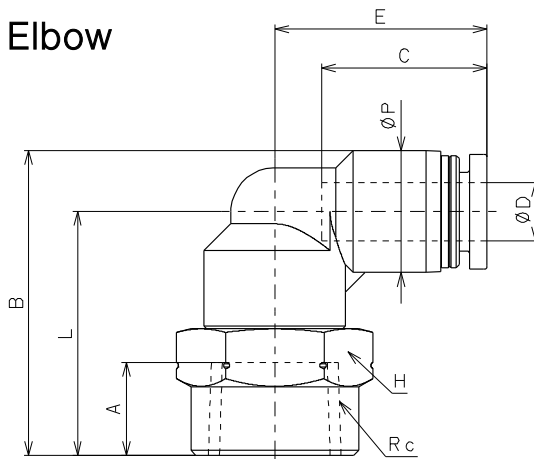
Unit : mm

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



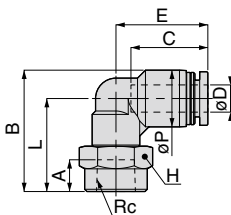
## ❖ NPT and UNF thread

unit: inch

Model	Tube O.D. φ D	Rc	A	B	L	φ P	C	E	Hex.	Orifice φ (mm)	Weight (g)
PLF5/32-U10U	5/32	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 NPT	0.28	0.98	0.79	0.39	0.59	0.74	9/16	2.8	13
PLF5/32-N2U	5/32	1/4 NPT	0.37	1.22	1.02	0.39	0.59	0.81	11/16	2.8	22
PLF3/16-U10U	3/16	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 NPT	0.28	1.06	0.81	0.49	0.69	0.81	9/16	3.3	14
PLF3/16-N2U	3/16	1/4 NPT	0.37	1.23	0.98	0.49	0.69	0.87	11/16	3.3	23
PLF3/16-N3U	3/16	3/8 NPT	0.41	1.27	1.02	0.49	0.68	0.80	7/8	3.9	35
PLF1/4-U10U	1/4	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 NPT	0.28	1.06	0.81	0.49	0.67	0.80	9/16	4.6	14
PLF1/4-N2U	1/4	1/4 NPT	0.37	1.23	0.98	0.49	0.67	0.86	11/16	5.3	22
PLF1/4-N3U	1/4	3/8 NPT	0.41	1.33	1.08	0.49	0.67	0.94	7/8	5.3	35
PLF5/16-N1U	5/16	1/8 NPT	0.28	1.11	0.83	0.57	0.71	0.89	9/16	6.0	16
PLF5/16-N2U	5/16	1/4 NPT	0.37	1.27	0.98	0.57	0.71	0.93	11/16	6.7	24
PLF5/16-N3U	5/16	3/8 NPT	0.41	1.35	1.06	0.57	0.71	0.97	7/8	6.7	37
PLF3/8-N2U	3/8	1/4 NPT	0.37	1.35	1.00	0.69	0.80	1.02	11/16	8.0	27
PLF3/8-N3U	3/8	3/8 NPT	0.41	1.45	1.10	0.69	0.80	1.06	7/8	8.2	40
PLF3/8-N4U	3/8	1/2 NPT	0.51	1.59	1.24	0.69	0.80	1.08	1	8.2	52
PLF1/2-N2U	1/2	1/4 NPT	0.37	1.50	1.08	0.83	0.93	1.18	11/16	10.0	32
PLF1/2-N3U	1/2	3/8 NPT	0.41	1.54	1.12	0.83	0.93	1.18	7/8	10.0	43
PLF1/2-N4U	1/2	1/2 NPT	0.51	1.67	1.26	0.83	0.93	1.22	1	10.9	54
PLF4-N1U	4mm	1/8 NPT	0.28	0.98	0.79	0.39	0.59	0.74	9/16	2.8	13
PLF4-N2U	4mm	1/4 NPT	0.37	1.22	1.02	0.39	0.59	0.81	11/16	2.8	22
PLF6-N1U	6mm	1/8 NPT	0.28	1.06	0.81	0.49	0.67	0.80	9/16	4.2	14
PLF6-N2U	6mm	1/4 NPT	0.37	1.23	0.98	0.49	0.67	0.86	11/16	4.3	23
PLF8-N1U	8mm	1/8 NPT	0.28	1.11	0.83	0.57	0.71	0.89	9/16	6.0	16
PLF8-N2U	8mm	1/4 NPT	0.37	1.27	0.98	0.57	0.71	0.93	11/16	6.7	24
PLF10-N2U	10mm	1/4 NPT	0.37	1.35	1.00	0.69	0.80	1.02	11/16	8.0	27
PLF12-N2U	12mm	1/4 NPT	0.37	1.50	1.08	0.83	0.92	1.17	11/16	10.0	32

# PLF Female Elbow

RoHS compliant



## ❖ Metric thread

Unit : mm

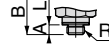
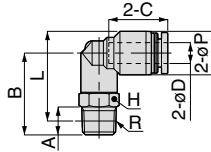
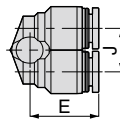
Model code	Tube O.D. øD	Rc	A	B	L	ØP	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name			
PLF4-M5 <sup>④</sup>	4	M5×0.8	5	19	14	10	14.9	18.7	10	2.8	6.9	PLF4-M5_			
PLF4-M6 <sup>④</sup>		M6×1												6.4	PLF4-M6_
PLF4-01 <sup>④</sup>		Rc1/8	7	25	20							14		14	PLF4-01_
PLF4-02 <sup>④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

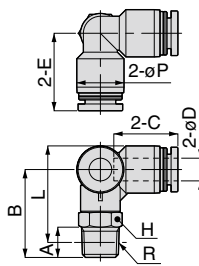
unit: inch

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	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 NPT	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 NPT	0.43	1.06	1.03	0.39	0.59	0.41	0.76	9/16	-	-	-	3.9	21
PAX3/16-U10U	3/16	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 NPT	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 NPT	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 NPT	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	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	0.59	1.50	1.59	0.83	0.93	0.83	1.20	7/8	-	-	-	10.8	75

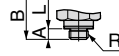
❖ **Metric thread**

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-M5 ④	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-M6 ④		M6 × 1	3.8	21	22.2						3		PAX4-M6_[C]		
PAX4-01 ④		R1/8	8	23	24						3.9		13	PAX4-01_	
PAX4-02 ④		R1/4	11	27	26								20	PAX4-02_	
PAX6-M5 ④	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-M6 ④		M6 × 1	3.8	21.5	24						3		13	PAX6-M6_[C]	
PAX6-01 ④		R1/8	8	23.5	25.8						4.2		15	PAX6-01_	
PAX6-02 ④		R1/4	11	29	29.2										22
PAX6-03 ④		R3/8	12	31.5	31.4						5.3		34	PAX6-03_	
PAX8-01 ④		R1/8	8	25	28.3										22.7
PAX8-02 ④	R1/4	11	29	30.2	14.5	18.1	14.5	23.7	14	7.3	25	PAX8-02_			
PAX8-03 ④	R3/8	12	32	32.9								24.7	17	37	PAX8-03_
PAX10-01 ④	10	R1/8	8	25.5	30.3	17.5	20.2	17.5	25	12	6	26	PAX10-01_		
PAX10-02 ④		R1/4	11	29.5	32.2								8	32	PAX10-02_
PAX10-03 ④		R3/8	12	32.5	34.9										
PAX10-04 ④		R1/2	15	37	37.6								28	21	66
PAX12-02 ④	12	R1/4	11	29.5	34	21	23.4	21	28.2	14	8	39	PAX12-02_		
PAX12-03 ④		R3/8	12	33.5	37.7								9.7	51	PAX12-03_
PAX12-04 ④		R1/2	15	38	40.3										



Unified or Metric thread type



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	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 NPT	0.31	0.92	0.95	0.39	0.59	0.72	7/16	-	-	-	3.0	14
PVX5/32-N2U	5/32	1/4 NPT	0.43	1.14	1.11	0.39	0.59	0.81	9/16	-	-	-	3.0	20
PVX3/16-U10U	3/16	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 NPT	0.31	0.92	1.00	0.49	0.69	0.82	7/16	-	-	-	4.0	16
PVX3/16-N2U	3/16	1/4 NPT	0.43	1.10	1.12	0.49	0.69	0.87	9/16	-	-	-	4.0	22
PVX3/16-N3U	3/16	3/8 NPT	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	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 NPT	0.31	0.92	1.00	0.49	0.67	0.81	7/16	-	-	-	4.6	15
PVX1/4-N2U	1/4	1/4 NPT	0.43	1.10	1.12	0.49	0.67	0.86	9/16	-	-	-	5.3	22
PVX1/4-N3U	1/4	3/8 NPT	0.47	1.24	1.25	0.49	0.67	0.94	11/16	-	-	-	5.3	34
PVX5/16-N1U	5/16	1/8 NPT	0.31	0.98	1.11	0.57	0.71	0.89	1/2	-	-	-	6.0	21
PVX5/16-N2U	5/16	1/4 NPT	0.43	1.14	1.20	0.57	0.71	0.93	9/16	-	-	-	6.7	26
PVX5/16-N3U	5/16	3/8 NPT	0.47	1.26	1.31	0.57	0.71	0.97	11/16	-	-	-	6.7	37
PVX3/8-N1U	3/8	1/8 NPT	0.31	1.02	1.20	0.69	0.80	1.02	1/2	-	-	-	6.0	26
PVX3/8-N2U	3/8	1/4 NPT	0.43	1.16	1.27	0.69	0.80	1.02	9/16	-	-	-	8.0	31
PVX3/8-N3U	3/8	3/8 NPT	0.47	1.30	1.41	0.69	0.80	1.06	11/16	-	-	-	8.2	44
PVX3/8-N4U	3/8	1/2 NPT	0.59	1.46	1.48	0.69	0.80	1.08	7/8	-	-	-	8.2	68
PVX1/2-N2U	1/2	1/4 NPT	0.43	1.21	1.40	0.83	0.93	1.20	9/16	-	-	-	8.0	36
PVX1/2-N3U	1/2	3/8 NPT	0.47	1.32	1.49	0.83	0.93	1.20	11/16	-	-	-	10.0	48
PVX1/2-N4U	1/2	1/2 NPT	0.59	1.50	1.59	0.83	0.93	1.24	7/8	-	-	-	11.0	75

❖ **Metric thread**

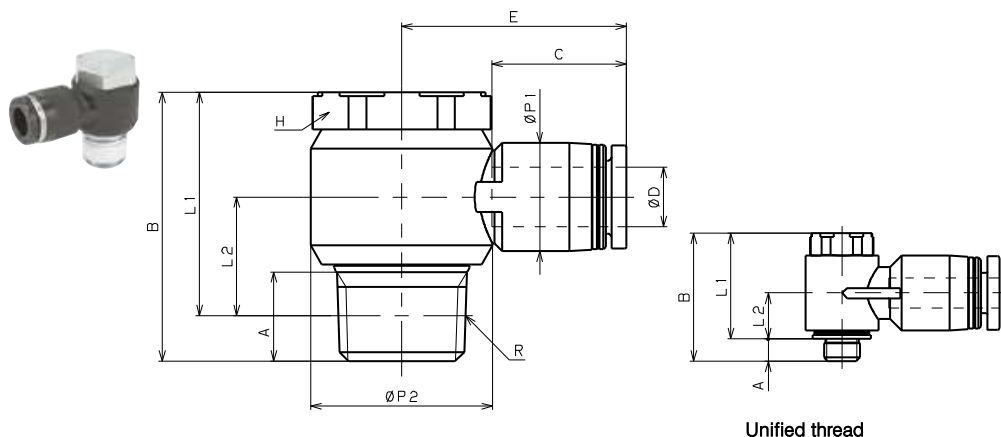
Unit : mm

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-M5 ④	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-M6 ④		M6 × 1	3.8	21.3	22.5							PVX4-M6_C				
PVX4-01 ④		R1/8	8	23.3	24.3							13	PVX4-01_			
PVX4-02 ④		R1/4	11	29	28							20	PVX4-02_			
PVX6-M5 ④	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-M6 ④		M6 × 1	3.8	21.3	23.7							3	PVX6-M6_C			
PVX6-01 ④		R1/8	8	23.3	25.5							15	PVX6-01_			
PVX6-02 ④		R1/4	11	28	28.2							22	PVX6-02_			
PVX6-03 ④	R3/8	12	31.5	31.4	33	PVX6-03_										
PVX8-01 ④	8	R1/8	8	25	28.3	14.5	18.1	22.7	12	6	20	PVX8-01_				
PVX8-02 ④		R1/4	11	29	30.2							25	PVX8-02_			
PVX8-03 ④		R3/8	12	32	32.9							36	PVX8-03_			
PVX10-01 ④		R1/8	8	25.9	30.6							17.5	20.2	26	12	6
PVX10-02 ④	R1/4	11	29.4	32.1	8	31	PVX10-02_									
PVX10-03 ④	R3/8	12	33	35.4	27	17	8.3	42	PVX10-03_							
PVX10-04 ④	R1/2	15	37	37.6	27.5	21	66	PVX10-04_								
PVX12-02 ④	12	R1/4	11	30.8	35.2	21	23.4	30.2	14	8	37	PVX12-02_				
PVX12-03 ④		R3/8	12	33.5	37.7							17	10	49	PVX12-03_	
PVX12-04 ④		R1/2	15	38	40.3							31.2	21	10.3	74	PVX12-04_



# Single Banjo

RoHS compliant



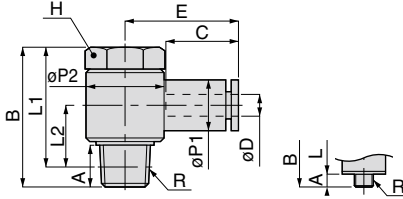
## ❖ NPT and UNF thread

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)
PH5/32-U10U	5/32	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 NPT	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	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 NPT	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 NPT	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	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	0.51	1.58	1.26	0.65	0.83	1.18	0.93	1.52	1	10.0	99
PH4-N1U	4mm	1/8 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	0.51	1.58	1.26	0.65	0.83	1.18	0.92	1.50	1	10.0	99

# PH Single Banjo

RoHS compliant



## ❖ Metric thread

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-M5 ④	4	M5×0.8	3 [3.2]	17.2	142 [14]	6.2 [6]	10	9.8	14.9	21.2	8	1.8	7.5	PH4-M5(C)				
PH4-M6 ④		M6×1	3.9 [4]	18.2	143 [142]	6.3 [6.2]								PH4-M6(C)				
PH4-O1 ④		R1/8	8	27	23	12				15.4	22.2	14	2.8	21	PH4-O1			
PH6-M5 ④	6	M5×0.8	3 [3.2]	17.2	142 [14]	7.4 [7.2]	12.5	9.8	17	23.1	8	1.8	8.3	PH6-M5(C)				
PH6-M6 ④		M6×1	3.9 [4]	18.2	143 [142]	7.5 [7.4]								PH6-M6(C)				
PH6-O1 ④		R1/8	8	27	23	12				15.4	24.2	14	4.6	22	PH6-O1			
PH6-O2 ④	R1/4	11	31.5	25.5	13.5	19.6	26.8	17	4.3	36	PH6-O2							
PH8-O1 ④	R1/8	8	27	23	12.3	15.4	14.5	18.1	20.2	26.2	14	5.5	23	PH8-O1				
PH8-O2 ④	R1/4	11	31.5	25.5	13.5	19.6								28.2	17	6	38	PH8-O2
PH8-O3 ④	R3/8	12	36	29.7	15.7	24.4								30.2	21	60	PH8-O3	
PH10-O2 ④	R1/4	11	31.5	25.5	15	17.5	19.6	20.2	23.4	30.5	17	7.1	41	PH10-O2				
PH10-O3 ④	R3/8	12	36	29.7	15.7	18	24.4							32.5	21	8	63	PH10-O3
PH12-O3 ④	R3/8	12	36	29.7	17.2	21	24.4	23.4	35.2	21	9.3	66	PH12-O3					
PH12-O4 ④	R1/2	13	40.2	32	16.5								30	38.2	24	10	97	PH12-O4
PH16-O3 ④	R3/8	12	46.1	39.8	21.3	25	28	24.1	36.6	24	13	92	PH16-O3					
PH16-O4 ④	R1/2	15	48.3	40.1	21.6								105	PH16-O4				
PH5/32-M5 ④	5/32"	M5×0.8	3 [3.2]	17.2	142 [14]	6.2 [6]	10	9.8	14.9	21.2	8	1.8	7.5	PH5_32-M5(C)				
PH5/32-O1 ④		R1/8	8	27	23	12								15.4	22.2	14	2.8	21
PH3/16-M5 ④	3/16"	M5×0.8	3 [3.2]	17.2	142 [14]	7.4 [7.2]	12.5	15.4	17.4	23.5	8	1.8	8.4	PH3_16-M5(C)				
PH3/16-O1 ④		R1/8	8	27	23	12								19.6	24.6	14	4	21
PH3/16-O2 ④		R1/4	11	31.5	25.5	13.5				19.6	27.2	17	35	PH3_16-O2				
PH1/4-M5 ④	1/4"	M5×0.8	3 [3.2]	17.2	142 [14]	7.4 [7.2]	12.5	9.8	17	23.1	8	1.8	8.1	PH1_4-M5(C)				
PH1/4-O1 ④		R1/8	8	27	23	12								15.4	24.2	14	4.6	22
PH1/4-O2 ④		R1/4	11	31.5	25.5	13.5				19.6	26.8	17	4.7	36	PH1_4-O2			
PH5/16-O1 ④	5/16"	R1/8	8	27	23	12.3	14.5	15.4	18.1	26.2	14	5.5	23	PH5_16-O1				
PH5/16-O2 ④		R1/4	11	31.5	25.5	13.5								19.6	28.2	17	6	38
PH5/16-O3 ④		R3/8	12	36	29.7	15.7				24.4	30.2	21	60	PH5_16-O3				
PH3/8-O2 ④	3/8"	R1/4	11	31.5	25.5	15	17.5	19.6	20.2	30.5	17	7.1	41	PH3_8-O2				
PH3/8-O3 ④		R3/8	12	36	29.7	15.7	18	24.4						32.5	21	8	63	PH3_8-O3
PH1/2-O3 ④	1/2"	R3/8	12	36	29.7	17.2	21	24.4	23.7	35.5	21	9.3	65	PH1_2-O3				
PH1/2-O4 ④		R1/2	13	40.2	32	16.5								30	38.5	24	10	97

※ 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

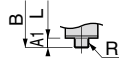
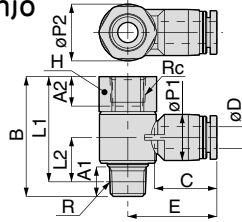
※ 2. "L1" and "L2" are reference values for height dimensions after tightening taper thread.

※ 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		26.8	17	4.3	38	PHF6-01
PHF6-02④		R1/4	11	9.5	38.5	32.5	13.5		19.6		26.2	14	5.5	25	PHF6-02
PHF8-01④	8	R1/8	8	7	32.5	28.5	12.3		15.4	18.1	26.2	14	6	39	PHF8-01
PHF8-02④		R1/4	11	9.5	38.5	32.5	13.5	14.5	19.6		28.2	17		63	PHF8-02
PHF8-03④		R3/8	12	10.5	44.5	38.2	15.7		24.4		30.2	21			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		24.4	23.4	35.2	21	9.3	69	PHF12-03
PHF12-04④		R1/2	13	13	52.2	44	16.5	21	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		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	14.5	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		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	21	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

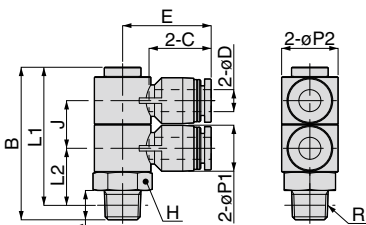
\*2. "L1" and "L2" are reference values for height dimensions after tightening taper thread.

\*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 φ D	R	A	B	L1	L2	J	φ P1	φ P2	C	E	Hex.	Orifice φ (mm)	Weight (g)
PHW5/32-N1U	5/32	1/8 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	0.59	2.83	2.51	1.13	0.85	0.83	1.06	0.93	1.46	1 1/8	10.0	148

## ❖ Metric thread

Unit : mm

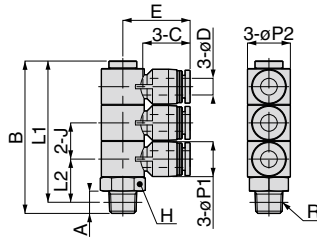
Model code	Tube O.D. ø D	R	A	B	L1	L2	J	ø P1	ø P2	Tube end C	E	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PHW4-01 ④	4	R1/8	8	41.6	37.6	15.5	13	10	15.4	14.9	22.2	14	3	26	PHW4-01
PHW4-02 ④		R1/4	11	44.6	38.6	16.5						32		PHW4-02	
PHW4-03 ④		R3/8	12	46.6	40.3	18.2						46		PHW4-03	
PHW6-01 ④	6	R1/8	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.





## ❖ NPT thread

unit: inch

Model	Tube O.D φ D	R	A	B	L 1	L 2	J	φ P1	φ P2	C	E	Hex.	Orifice φ (mm)	Weight (g)
PHT5/32-N1U	5/32	1/8 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	0.59	3.68	3.36	1.13	0.85	0.83	1.06	0.93	1.46	1 1/8	10.0	179

## ❖ Metric thread

Unit : mm

Model code	Tube O.D. ø D	R	A	B	L1	L2	J	ø P1	ø P2	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								39	PHT4-02
PHT4-03 ④		R3/8	12	59.7	53.4	18.2								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								41	PHT6-02
PHT6-03 ④		R3/8	12	59.7	53.4	18.2								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								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								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								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

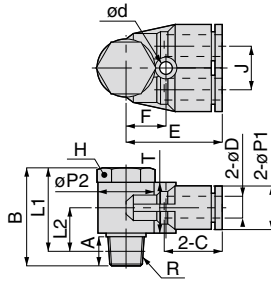
\* 2. "L1" and "L2" are reference values for height dimensions after tightening thread.

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

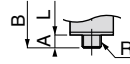
**PA**

## Twin Banjo

RoHS compliant



Unified or Metric thread type



unit: inch

### ❖ NPT thread

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	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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

### ❖ Metric thread

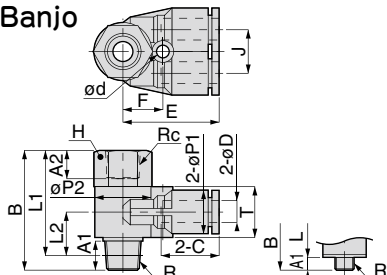
Unit : mm

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

### ❖ Metric thread

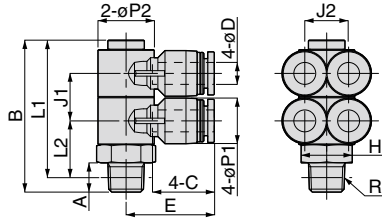
Model code	Tube O.D. øD	R&Rc	A1	A2	B	L1	L2	øP1	øP2	Tube end C	J	E	ød	F	T	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PAF4-M5④	4	M5×0.8	3 [3.2]	5	20.2	17.2 [17]	6.2 [6]	10	9.8	14.9	10	20.2	-	-	-	8	1.8	11	PAF4-M5(C)
PAF6-01④	6	R1/8	8	7	32.5	28.5	12	12.4	15.4	17	12	26.2	3.2	10.7	14	14	4.2	27	PAF6-01
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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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

## ❖ Metric thread

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
PAW4-01 ④	4	R1/8	8	41.6	37.6	15.5							14	3	31	PAW4-01
PAW4-02 ④		R1/4	11	44.6	38.6	16.5	13	10	10	15.4	14.9	22.2			37	PAW4-02
PAW4-03 ④		R3/8	12	46.6	40.3	18.2									17	51
PAW6-01 ④	6	R1/8	8	41.6	37.6	15.5							14	3.7	35	PAW6-01
PAW6-02 ④		R1/4	11	44.6	38.6	16.5	13	12	12.5	15.4	17	24.2			40	PAW6-02
PAW6-03 ④		R3/8	12	46.6	40.3	18.2									17	54
PAW8-01 ④	8	R1/8	8	46.6	42.6	17.5							17	6	54	PAW8-01
PAW8-02 ④		R1/4	11	49.6	43.6	18.5	15	14	14.5	19	18.1	27.7			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									22	96
PAW10-02 ④	10	R1/4	11	57.6	51.6	22							22	7.5	95	PAW10-02
PAW10-03 ④		R3/8	12	58.6	52.3	22.7	18	17	17.5	23	20.2	31.7			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							27	8.5	160	PAW12-02
PAW12-03 ④		R3/8	12	68.8	62.5	27.5	21.6	20	21	27	23.4	36.7			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							14	4.1	34	PAW1_4-01
PAW1/4-02 ④		R1/4	11	44.6	38.6	16.5	13	12	12.5	15.4	17	24.2			40	PAW1_4-02
PAW1/4-03 ④		R3/8	12	46.6	40.3	18.2									17	54
PAW5/16-02 ④	5/16"	R1/4	11	49.6	43.6	18.5							17	6	56	PAW5_16-02
PAW5/16-03 ④		R3/8	12	50.6	44.3	19.2	15	14	14.5	19	18.1	27.7			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		R1/4	11	57.6	51.6	22									96	PAW3_8-02
PAW3/8-03 ④	3/8"	R3/8	12	58.6	52.3	22.7	18	17	17.5	23	20.2	31.7	22	7.5	99	PAW3_8-03
PAW3/8-04 ④		R1/2	15	61.6	53.4	23.8							116	PAW3_8-04		

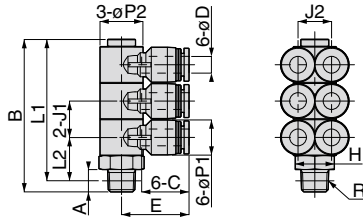
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 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



unit: inch

## ❖ NPT thread

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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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

## ❖ Metric thread

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
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								

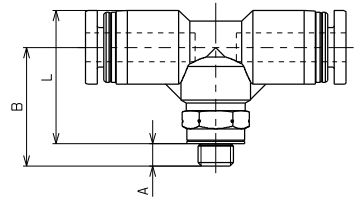
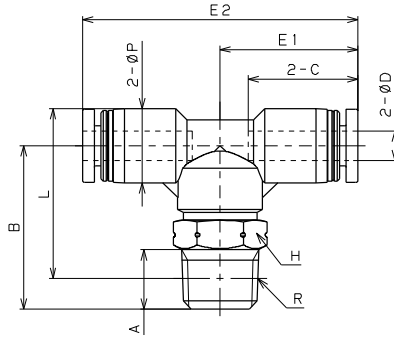
\* 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "W-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

\* 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

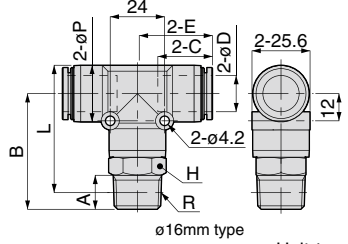
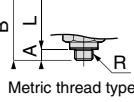
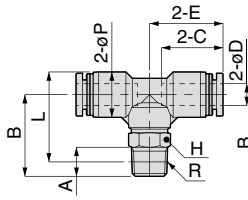
Model	Tube O.D. φ D	R	A	B	L	φ P	C	E1	E2	Hex.	Orifice (φ mm)	Weight (g)
PB5/32-U10U	5/32	10-32UNF	0.11	0.63	0.72	0.39	0.59	0.70	1.39	5/16	2.4	7.9
PB5/32-N1U	5/32	1/8 NPT	0.31	0.87	0.90	0.39	0.59	0.74	1.47	7/16	2.8	14
PB5/32-N2U	5/32	1/4 NPT	0.43	1.14	1.11	0.39	0.59	0.81	1.63	9/16	2.8	20
PB3/16-U10U	3/16	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 NPT	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 NPT	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 NPT	0.47	1.21	1.23	0.51	0.69	0.81	1.62	11/16	4	40
PB1/4-U10U	1/4	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 PT	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 NPT	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 NPT	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 NPT	0.59	1.44	1.53	0.83	0.93	1.22	2.44	7/8	10.9	73

1/8" O.D. and 5/32", 1/4" with smaller body fitting - see Fitting Mini



# Branch Tee

RoHS compliant



Unit : mm

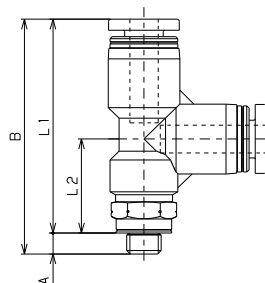
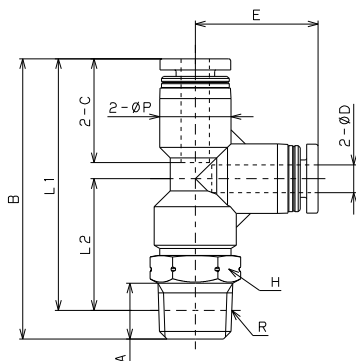
## ❖ Metric thread

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-M5 (4)	4	M5 × 0.8	2.8 [3]	16	18.2 [18]	10	14.9	17.7	8	2.4	8	PB4-M5_[C]
PB4-M6 (4)		M6 × 1	3.8	20	21.2			18.7	10	2.8	11	PB4-M6_[C]
PB4-01 (4)		R1/8	8	22	23			2.8	13	PB4-01_		
PB4-02 (4)		R1/4	11	29	28				20	PB4-02_		
PB6-M5 (4)	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-M6 (4)		M6 × 1	3.8	20.5	23			3	13	PB6-M6_[C]		
PB6-01 (4)		R1/8	8	22.5	24.8			4.2	14	PB6-01_		
PB6-02 (4)		R1/4	11	28	28.2			4.3	22	PB6-02_		
PB6-03 (4)	R3/8	12	31.5	31.4	23.75	17	33	PB6-03_				
PB8-01 (4)	8	R1/8	8	24	27.3	14.5	18.1	22.7	12	6	19	PB8-01_
PB8-02 (4)		R1/4	11	28	29.2			23.7	14	6.7	25	PB8-02_
PB8-03 (4)		R3/8	12	31	31.9			24.7	17	35	PB8-03_	
PB10-01 (4)		R1/8	8	25	29.8			25.5	12	6	25	PB10-01_
PB10-02 (4)	10	R1/4	11	28.5	31.2	17.5	20.2	26	14	8	31	PB10-02_
PB10-03 (4)		R3/8	12	32	34.4			27	17	8.3	42	PB10-03_
PB10-04 (4)		R1/2	15	36	36.6			27.5	21	65	PB10-04_	
PB12-02 (4)		R1/4	11	29.8	34.2			28.95	14	8	38	PB12-02_
PB12-03 (4)	12	R3/8	12	32.5	36.7	21	23.4	29.7	17	10	48	PB12-03_
PB12-04 (4)		R1/2	15	36.5	38.8			30.7	21	10.3	72	PB12-04_
PB16-03 (4)	16	R3/8	11	47	53.2	25	24.1	33.1	22	11	89	PB16-03_
PB16-04 (4)		R1/2	15	51	55.3					13	93	PB16-04_
PB5/32-01 (4)	5/32"	R1/8	8	22	23	10	14.9	18.7	10	2.8	13	PB5_32-01_
PB5/32-02 (4)		R1/4	11	29	28			20.7	14		20	PB5_32-02_
PB3/16-01 (4)	3/16"	R1/8	8	22.5	24.8	12.5	17.4	20.65	10	3.3	15	PB3_16-01_
PB3/16-02 (4)		R1/4	11	28	28.2			22.15	14		22	PB3_16-02_
PB1/4-01 (4)	1/4"	R1/8	8	22.5	24.8	12.5	17	20.25	10	4.6	14	PB1_4-01_
PB1/4-02 (4)		R1/4	11	28	28.2			21.75	14	5.3	22	PB1_4-02_
PB1/4-03 (4)		R3/8	12	31.5	31.4			23.75	17	33	PB1_4-03_	
PB5/16-01 (4)	5/16"	R1/8	8	24	27.3	14.5	18.1	22.7	12	6	19	PB5_16-01_
PB5/16-02 (4)		R1/4	11	28	29.2			23.7	14	6.7	25	PB5_16-02_
PB5/16-03 (4)		R3/8	12	31	31.9			24.7	17	35	PB5_16-03_	
PB3/8-01 (4)		R1/8	8	25	29.8			25.5	12	6	25	PB3_8-01_
PB3/8-02 (4)	3/8"	R1/4	11	28.5	31.2	17.5	20.2	26	14	8	31	PB3_8-02_
PB3/8-03 (4)		R3/8	12	32	34.4			27	17	8.2	42	PB3_8-03_
PB3/8-04 (4)		R1/2	15	36	36.6			27.5	21	65	PB3_8-04_	
PB1/2-02 (4)		R1/4	11	29.8	34.2			29.25	14	8	36	PB1_2-02_
PB1/2-03 (4)	1/2"	R3/8	12	32.5	36.7	21	23.7	30	17	10	46	PB1_2-03_
PB1/2-04 (4)		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

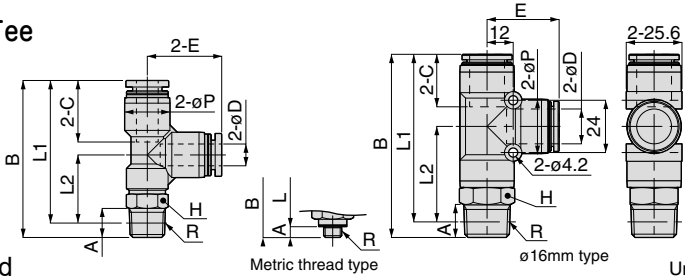
unit: inch

Model	Tube O.D. φ D	R	A	B	L1	L2	φ P	C	E	Hex.	Orifice (φ mm)	Weight (g)
PD5/32-U10U	5/32	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 NPT	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 NPT	0.43	1.82	1.59	0.91	0.39	0.59	0.76	9/16	2.8	20
PD3/16-U10U	3/16	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 NPT	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 NPT	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 NPT	0.47	2.02	1.78	0.97	0.51	0.69	0.81	11/16	4	40
PD1/4-U10U	1/4	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	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 NPT	0.59	2.67	2.35	1.14	0.83	0.93	1.22	7/8	10.9	73

1/8" O.D. and 5/32", 1/4" with smaller body fitting - see Fitting Mini

# PD Run Tee

RoHS compliant



## ❖ Metric thread

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-M5(4)	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-M6(4)		M6 × 1	3.8	38.2	34.4	17.2				2.8	11	PD4-M6_[C]	
PD4-01(4)		R1/8	8	40.2	36.2	19			13	PD4-01_			
PD4-02(4)		R1/4	11	46.2	40.2	23			20	PD4-02_			
PD6-M5(4)	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-M6(4)		M6 × 1	3.8	41.3	37.5	17				3	14	PD6-M6_[C]	
PD6-01(4)		R1/8	8	43.3	39.3	18.8			4.3	14	22	PD6-01_	
PD6-02(4)		R1/4	11	48.8	42.7	22.2			32	PD6-02_			
PD6-03(4)	R3/8	12	52	45.7	25.2	19	PD6-03_						
PD8-01(4)	8	R1/8	8	46.9	42.9	20	14.5	18.1	22.9	12	6	19	PD8-01_
PD8-02(4)		R1/4	11	51.7	45.7	22.8				14	6.7	25	PD8-02_
PD8-03(4)		R3/8	12	55.4	49.1	26.2			17	35	PD8-03_		
PD10-01(4)		R1/8	8	51.2	47.2	21			25	12	6	25	PD10-01_
PD10-02(4)	10	R1/4	11	54.7	48.7	22.5	17.5	20.2	26.2	14	8	31	PD10-02_
PD10-03(4)		R3/8	12	58.2	51.9	25.7				17	8.3	42	PD10-03_
PD10-04(4)		R1/2	15	62.2	54	27.8			27.3	21	65	PD10-04_	
PD12-02(4)		R1/4	11	60.3	54.2	23.7			30	14	8	38	PD12-02_
PD12-03(4)	R3/8	12	63.5	57.2	26.7	30.5	17	10	48	PD12-03_			
PD12-04(4)	R1/2	15	67.5	59.3	28.8	30.7	21	10.3	72	PD12-04_			
PD16-03(4)	16	R3/8	11	80.1	73.8	40.7	25	24.1	33.1	22	11	89	PD16-03_
PD16-04(4)		R1/2	15	84.1	75.9	42.8					13	93	PD16-04_
PD5/32-01(4)	5/32"	R1/8	8	40.2	36.2	19	10	14.9	17.2	10	2.8	13	PD5_32-01_
PD5/32-02(4)		R1/4	11	46.2	40.2	23						19.2	14
PD3/16-01(4)	3/16"	R1/8	8	43.7	39.7	18.8	12.5	17.4	20.9	10	3.3	15	PD3_16-01_
PD3/16-02(4)		R1/4	11	49.2	43.1	22.2						14	22
PD1/4-01(4)	1/4"	R1/8	8	43.3	39.3	18.8	12.5	17	20.5	14	4.6	14	PD1_4-01_
PD1/4-02(4)		R1/4	11	48.8	42.7	22.2						14	22
PD1/4-03(4)		R3/8	12	52	45.7	25.2			21.5	17	5.3	32	PD1_4-03_
PD5/16-01(4)		5/16"	R1/8	8	46.9	42.9			20	14.5	18.1	22.9	12
PD5/16-02(4)	R1/4		11	51.7	45.7	22.8	14	6.7	25				
PD5/16-03(4)	R3/8		12	55.4	49.1	26.2	17	35	PD5_16-03_				
PD3/8-01(4)	R1/8		8	51.2	47.2	21	25.5	12	6			25	PD3_8-01_
PD3/8-02(4)	3/8"	R1/4	11	54.7	48.7	22.5	17.5	20.2	26.2	14	8	31	PD3_8-02_
PD3/8-03(4)		R3/8	12	58.2	51.9	25.7						17	8.2
PD3/8-04(4)		R1/2	15	62.2	54	27.8			27.3	21	65	PD3_8-04_	
PD1/2-02(4)		R1/4	11	60.6	54.5	23.7			30.3	14	8	37	PD1_2-02_
PD1/2-03(4)	1/2"	R3/8	12	63.8	57.5	26.7	21	23.7	30.8	17	10	47	PD1_2-03_
PD1/2-04(4)		R1/2	15	67.8	59.6	28.8						31	21

\* 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.

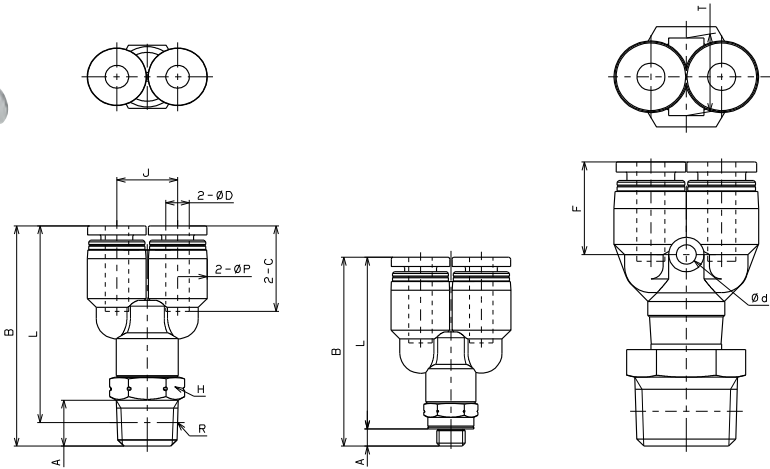
\* 3. Orifice bore is the smallest passage converted in terms of the diameter.





# Branch Y

RoHS compliant



PX3/16-N3U

Unified thread

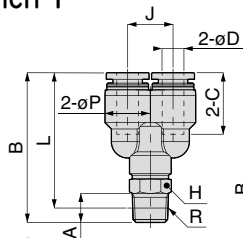
## ❖ NPT and UNF thread

unit: inch

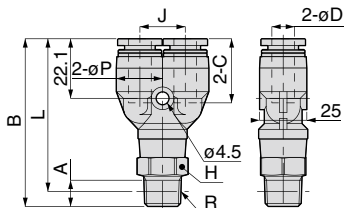
Model	Tube O.D. φ D	R	A	B	L	φ P	C	J	φ d	F	T	Hex.	Orifice (φ mm)	Weight (g)
PX5/32-U10U	5/32	10-32UNF	0.11	1.30	1.19	0.39	0.59	0.41	-	-	-	5/16	2.4	8
PX5/32-N1U	5/32	1/8 NPT	0.31	1.51	1.35	0.39	0.59	0.41	-	-	-	7/16	3.1	14
PX5/32-N2U	5/32	1/4 NPT	0.43	1.71	1.48	0.39	0.59	0.41	-	-	-	9/16	3.3	20
PX3/16-U10U	3/16	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 NPT	0.31	1.64	1.48	0.49	0.69	0.49	-	-	-	7/16	4.2	16
PX3/16-N2U	3/16	1/4 NPT	0.43	1.92	1.69	0.49	0.69	0.49	-	-	-	9/16	5.1	23
PX3/16-N3U	3/16	3/8 NPT	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	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 NPT	0.31	1.63	1.46	0.49	0.67	0.49	-	-	-	7/16	4.2	16
PX1/4-N2U	1/4	1/4 NPT	0.43	1.90	1.67	0.49	0.67	0.49	-	-	-	9/16	5.2	22
PX1/4-N3U	1/4	3/8 NPT	0.47	2.02	1.78	0.49	0.67	0.49	-	-	-	11/16	5.5	35
PX5/16-N1U	5/16	1/8 NPT	0.31	1.81	1.65	0.57	0.71	0.57	-	-	-	1/2	5.9	21
PX5/16-N2U	5/16	1/4 NPT	0.43	1.94	1.71	0.57	0.71	0.57	-	-	-	9/16	6.2	26
PX5/16-N3U	5/16	3/8 NPT	0.47	2.07	1.83	0.57	0.71	0.57	-	-	-	11/16	6.6	38
PX3/8-N1U	3/8	1/8 NPT	0.31	1.96	1.80	0.69	0.80	0.69	-	-	-	1/2	6	28
PX3/8-N2U	3/8	1/4 NPT	0.43	2.11	1.88	0.69	0.80	0.69	-	-	-	9/16	7.2	33
PX3/8-N3U	3/8	3/8 NPT	0.47	2.23	1.99	0.69	0.80	0.69	-	-	-	11/16	7.4	45
PX3/8-N4U	3/8	1/2 NPT	0.59	2.37	2.05	0.69	0.80	0.69	-	-	-	7/8	7.8	69
PX1/2-N2U	1/2	1/4 NPT	0.43	2.32	2.09	0.83	0.93	0.83	-	-	-	9/16	7.5	39
PX1/2-N3U	1/2	3/8 NPT	0.47	2.40	2.16	0.83	0.93	0.83	-	-	-	11/16	8.4	51
PX1/2-N4U	1/2	1/2 NPT	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

## ❖ Metric thread

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					3	11	PX4-M6_[C]
PX4-01④		R1/8	8	38.4	34.4					3.1	13	PX4-01_
PX4-02④		R1/4	11	43.4	37.4					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					4.2	15	PX6-01_
PX6-02④		R1/4	11	48.3	42.2					14	22	PX6-02_
PX6-03④	R3/8	12	51.3	44.9	17	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					6.2	25	PX8-02_
PX8-03④		R3/8	12	52.5	46.2					6.6	36	PX8-03_
PX10-01④		R1/8	8	49.8	45.8					12	6	27
PX10-02④	10	R1/4	11	53.6	47.6	17.5	20.2	17.5	14	7.2	32	PX10-02_
PX10-03④		R3/8	12	56.7	50.4					7.4	43	PX10-03_
PX10-04④		R1/2	15	60.2	52					7.8	66	PX10-04_
PX12-02④		R1/4	11	58.6	52.6					14	7.5	40
PX12-03④	12	R3/8	12	60.6	54.3	21	23.4	21	17	8.4	51	PX12-03_
PX12-04④		R1/2	15	64.7	56.5					8.3	74	PX12-04_
PX16-03④		R3/8	11	76.1	69.8					11	89	PX16-03_
PX16-04④	16	R1/2	15	80.1	71.9	25	24.1	24	22	12.7	93	PX16-04_
PX5/32-01④		5/32"	R1/8	8	38.4					34.4	10	14.9
PX5/32-02④	R1/4		11	43.4	37.4	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					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					5.2	22	PX1_4-02_
PX1/4-03④		R3/8	12	51.3	44.9					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					6.2	25	PX5_16-02_
PX5/16-03④		R3/8	12	52.5	46.2					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					7.2	33	PX3_8-02_
PX3/8-03④		R3/8	12	56.7	50.4					7.4	44	PX3_8-03_
PX3/8-04④		R1/2	15	60.2	52					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	51	PX1_2-03_
PX1/2-04④		R1/2	15	65	56.8					21	8.4	74

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

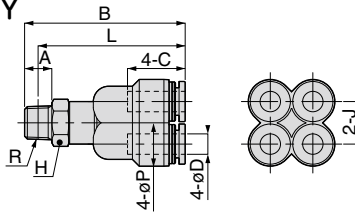
※ 2. "L" is a reference value for height dimension after tightening taper thread.

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

Ask us for the availability of PRX1/4-N2U

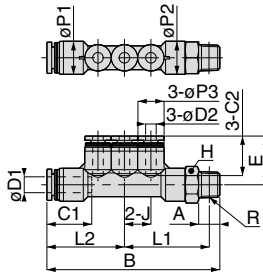
## ❖ Metric thread

Unit : mm

Model code	Tube O.D. ø D	R	A	B	L	ø P	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							21
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. φ D1	Tube O.D. φ D2	R	A	B	E	L1	L2	J	φ P1	φ P2	φ P3	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

## ❖ Metric thread

Unit : mm

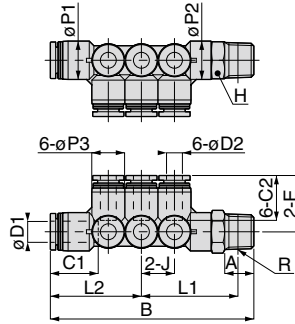
Model code	Tube O.D. ø D1	Tube O.D. ø D2	R	A	B	E	L1	L2	J	ø P1	ø P2	ø P3	Tube end C1	Tube end C2	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PKD6-4-01 ④	6	4	R1/8	8	65.4	18.4	32.1	29.3	10	12.5	12.5	10	17	14.9	12	3	21	PKD6-4-01_
PKD8-4-02 ④	8	4	R1/4	11	69.2	19.2	32	31.2	10	14.5	14.5	10	18.1	14.9	14	3	28	PKD8-4-02_
PKD8-6-02 ④		6			76.9	21.3	36.5	34.4	12.5			17		4.6		35	PKD8-6-02_	
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, "-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



### ❖ Metric thread

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 ( $\phi$ mm)	Weight (g)	CAD file name	
PKVD8-4-02④	8	4	R1/4	11	69.2	19.2	32	31.2	10	14.5	18	10	18.1	14.9	14	3	32	PKVD8-4-02_	
PKVD8-4-03④			R3/8	12	72.2	34.7	34.4								12.5		17	46	PKVD8-4-03_
PKVD8-6-02④		6	R1/4	11	76.9	21.3	36.5	37	12.5		18	12.5		20.2	17	14	4.6	41	PKVD8-6-02_
PKVD8-6-03④			R3/8	12	80.7	39.9	34.4									12.5		17	52
PKVD10-6-03④	10	6	R1/4	12	81.5	22.3	38.2	40	14.5	17.5	20	14.5	17		17	4.6	56	PKVD10-6-03_	
PKVD10-6-04④			R1/2	15	85.5	40.3	37								12.5		17	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	40									14.5	20	87	PKVD10-8-04_

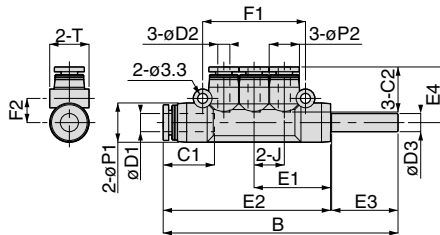
※ 1. ④ in Model code / Replaced with "W" for Light-gray color, "-C" for Clean-room package, "-C" for Light-gray color and Clean-room package, "-UC" for Clean-wash and Clean-room package

※ 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

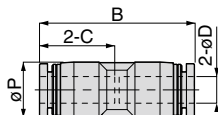
Model code	Tube O.D. $\phi D1$	Tube O.D. $\phi D2$	Tube dia. $\phi D3$	B	J	E1	E2	E3	E4	$\phi P1$	$\phi P2$	Tube end C1	Tube end C2	F1	F2	T	Orifice bore ( $\phi$ mm)	Weight (g)	CAD file name
PKJ6-4④	6	4	6	77.7	10	25.3	55.4	22	18.4	13	10	17	14.9	34	8	13	3	15	PKJ6-4
PKJ8-4④	8	4	8	81.2	10	26.5	57.7	23.2	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
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, "-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

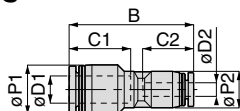


Unit : mm

Model code	Tube O.D. øD	B	øP	Tube end C	Orifice bore (ømm)	Weight (g)	CAD file name
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
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

**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
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								PG1_4-4
PG1/4-3/16④	5/16"	3/16"	35.3	14.5	14.5	18.1	17.4	3.3	6.5	PG1_4-3_16
PG5/16-3/16④		3/16"								38.3
PG5/16-1/4④	5/16"	1/4"	37.9	14.5	14.5	18.1	17	5	8.7	PG5_16-1_4
PG3/8-1/4④		1/4"								39.8
PG3/8-5/16④	3/8"	5/16"	41.1	17.5	17.5	20.2	18.1	6.5	15	PG3_8-5_16
PG1/2-1/4④		1/4"								44.4
PG1/2-5/16④	1/2"	5/16"	44.3	21	14.5	23.7	18.1	6.2	16	PG1_2-5_16
PG1/2-3/8④		3/8"								47.9
PG5/8-1/2④	5/8"	1/2"	49.8	25	25	24.1	23.7	10.7	26	PG5_8-1_2
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
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
PG12-8④	12	8	44	21	14.5	23.4	18.1	6.2	16	PG12-8
PG12-10④		10	47.6		21					20.2
PG12-3/8④	12	3/8"	47.6	25	25	24.1	20.7	8.4	35	PG12-3_8
PG16-10④		10	52.1							25
PG16-12④	16	12	49.5	25	25	24.1	23.4	10	27	PG16-12

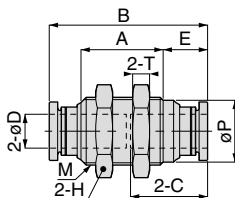
Common caution in this page

※ 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.

# PM Bulkhead Union

RoHS compliant



## ❖ Unified thread 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

## ❖ Metric thread bulkhead

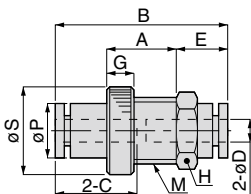
Unit : mm

Model code	Tube O.D. φD	M	B	E	A	φP	Tube end C	Hex. H	T	Orifice bore (φmm)	Weight (g)	CAD file name
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_
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_

Ask us for PM5/8 - 5/8" O.D. same dimensions as PM16

# PMP Bulkhead Union P

RoHS compliant



Unit : mm

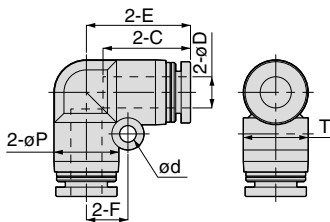
Model code	Tube O.D. φD	M	B	E	A	φP	φS	Tube end C	Hex. H	G	Orifice bore (φmm)	Weight (g)	CAD file name
PMP5/32④	5/32"	M12×1.5	31.4	9.2	12	10	16	14.9	14	5	3	6.8	PMP5_32
PMP1/4④	1/4"	M14×1.5	35.5	9.8	15	12.3	19	17	17	5	5	9.5	PMP1_4
PMP5/16④	5/16"	M16×1.5	38.4	10.7	15.5	14.2	22	18.1	19	6	7	14	PMP5_16
PMP3/8④	3/8"	M20×2	43	13	18.5	17.5	27.5	20.7	24	6	8	24	PMP3_8
PMP1/2④	1/2"	M24×2	49	13.5	20.5	21	31	23.7	27	6	11.7	31	PMP1_2
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

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



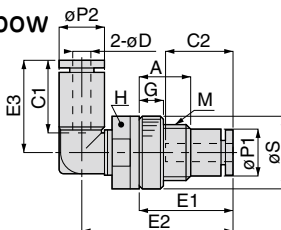
Unit : mm

Model code	Tube O.D. øD	øP	Tube end C	E	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
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
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

PV5/8 - 5/8" O.D. same dimension as PV16 ask us for the availability.

## PML Bulkhead Union Elbow

RoHS compliant



Unit : mm

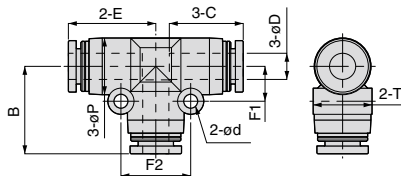
Model code	Tube O.D. øD	M	E1	E2	E3	A	øP1	øP2	øS	Tube end C1	Tube end C2	Hex. H	G	Orifice bore (ømm)	Weight (g)	CAD file name
PML5/32④	5/32"	M12x1.5	20.2	32.8	19.7	10	10	10	16	14.9	14.9	14	5	2.9	11	PML5_32
PML1/4④	1/4"	M14x1.5	23.8	37.8	22.8	13	12.3	12.5	19	17	17	17	5	4.4	17	PML1_4
PML5/16④	5/16"	M16x1.5	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
PML1/2④	1/2"	M24x2	33.5	55	32.9	18.5	21	21	31	23.7	23.7	27	6	9.5	58	PML1_2
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

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

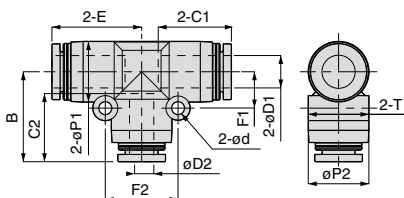


Unit : mm

Model code	Tube O.D. øD	øP	Tube end C	E	ød	T	F1	F2	B	Orifice bore (ømm)	Weight (g)	CAD file name
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
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

PE5/8 - ask us for the availability - 5/8" O.D. same dimension as PE16

**PEG** Unequal Union Tee  
RoHS compliant



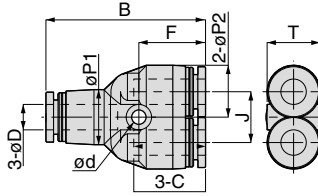
Unit : mm

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
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				10
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				3.8
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				4
PEG1/4-5/16 ④	1/4"	5/16"	15	15	17	18.1	22.25	3.2	9	18	22.2	15.6	4.3	14	PEG1_4-5_16
PEG5/16-5/32 ④		5/32"				14.9					21.7				2.8
PEG5/16-3/16 ④	5/16"	3/16"	14.5	12.5	18.1	17.4	22.2	3.2	9	18	22.7	15.1	5	14	PEG5_16-3_16
PEG5/16-1/4 ④		1/4"				17					22.3				14
PEG5/16-3/8 ④	5/16"	3/8"	17.5	17.5	18.1	20.2	24.9	4.2	12	24	25.2	18.2	6.2	22	PEG5_16-3_8
PEG3/8-1/4 ④		1/4"				17					25				5
PEG3/8-5/16 ④	3/8"	5/16"	17.5	14.5	20.2	18.1	25.2	4.2	12	24	24.9	18.2	6.2	23	PEG3_8-5_16
PEG3/8-1/2 ④		1/2"				21					21				23.2
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				7.5
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				9				18
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				4.3
PEG8-10 ④	8	10	17.5	17.5	20.2	24.9	4.2	12	24	25.2	18.2	6.2	22	PEG8-10	
PEG10-6 ④		6	17	25.2	5	22	PEG10-6								
PEG10-8 ④	10	8	17.5	14.5	20.2	18.1	25.2	4.2	12	24	24.9	18.2	6.2	23	PEG10-8
PEG10-12 ④		12				21					21				22.9
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				8.1
PEG12-16 ④	12	16	25	25	24.1	33.2	4.2	12	24	33.1	25.6	9.9	46	PEG12-16	
PEG16-10 ④		16	10	25	25	24.1	20.7	33.1	4.2	12	24	35.8	25.6	8.5	53
PEG16-12 ④	12		22.9				33.2					10			



**PY** Union Y

RoHS compliant



Unit : mm

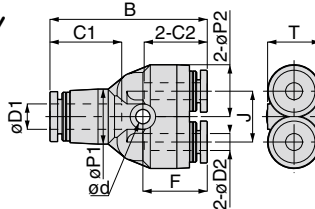
Model code	Tube O.D. øD	B	øP1	øP2	Tube end C	J	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
PY5/32④	5/32"	32.8	10	10	14.9	11	3.2	14.1	10.4	2.6	7.6	PY5_32
PY3/16④	3/16"	38.5	13	12.5	17.4	12	3.4	16.2	13.5	3.8	11	PY3_16
PY1/4④	1/4"	37.7	13	12.5	17	12	3.4	15.8	13.5	4.7	11	PY1_4
PY5/16④	5/16"	42.4	15	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
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

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

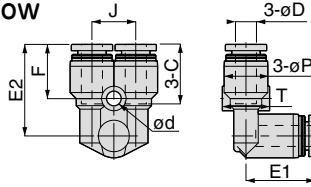
Model code	Tube O.D. øD1	Tube O.D. øD2	B	øP1	øP2	Tube end C1	Tube end C2	J	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
PW3/16-5/32④	3/16"	5/32"	37.6	13	12.5	17.4	14.9	12	3.4	15.2	13.5	3.7	11	PW3_16-5_32
PW1/4-5/32④	1/4"	5/32"	37.2	13	12.5	17	14.9	12	3.4	15.2	13.5	3.7	11	PW1_4-5_32
PW1/4-3/16④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

※ 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

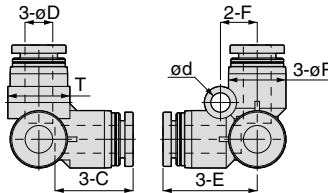


Unit : mm

Model code	Tube O.D. øD	E1	øP	Tube end C	J	E2	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
PAU5/32 ④	5/32"	16.9	10	14.9	10.3	22.7	3.2	14.2	10.4	3.5	7.7	PAU5_32_
PAU3/16 ④	3/16"	20.2	12.5	17.4	12.5	26.6	4.2	15.9	13.5	4.4	12	PAU3_16_
PAU1/4 ④	1/4"	19.8	12.5	17	12.5	26.2	4.2	15.5	13.5	4.8	11	PAU1_4_
PAU5/16 ④	5/16"	22.7	14.5	18.1	14.5	29.4	4.2	16.9	15.6	6.4	16	PAU5_16_
PAU3/8 ④	3/8"	25	17.5	20.2	17.5	33.5	4.2	18.5	18.2	8.5	27	PAU3_8_
PAU1/2 ④	1/2"	29.7	21	23.7	21	35.5	4.2	20.7	21.7	10.4	38	PAU1_2_
PAU4 ④	4	16.9	10	14.9	10.3	22.7	3.2	14.2	10.4	3.5	7.7	PAU4_
PAU6 ④	6	19.8	12.5	17	12.5	26.2	4.2	15.5	13.5	4.5	11	PAU6_
PAU8 ④	8	22.7	14.5	18.1	14.5	29.4	4.2	16.9	15.6	6.4	16	PAU8_
PAU10 ④	10	25	17.5	20.2	17.5	33.5	4.2	18.5	18.2	8.5	27	PAU10_
PAU12 ④	12	29.4	21	23.4	21	35.2	4.2	20.4	21.7	10.4	39	PAU12_

## PVU Tripod Union

RoHS compliant



Unit : mm

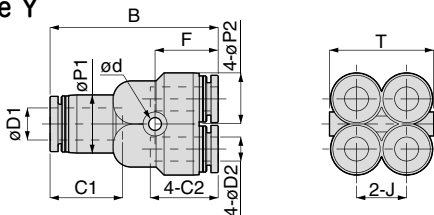
Model code	Tube O.D. øD	øP	Tube end C	E	ød	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
PVU5/32 ④	5/32"	10	14.9	17.8	3.2	6.5	10.4	3	7.2	PVU5_32_
PVU3/16 ④	3/16"	12.5	17.4	20.9	4.2	8	13.5	4	10	PVU3_16_
PVU1/4 ④	1/4"	12.5	17	20.5	4.2	8	13.5	5.3	11	PVU1_4_
PVU5/16 ④	5/16"	14.5	18.1	22.7	4.2	10	15.6	6.7	15	PVU5_16_
PVU3/8 ④	3/8"	17.5	20.2	26.2	4.2	12	18.2	8.2	25	PVU3_8_
PVU1/2 ④	1/2"	21	23.7	30.5	4.2	14	21.7	11	34	PVU1_2_
PVU4 ④	4	10	14.9	17.8	3.2	6.5	10.4	3	7.2	PVU4_
PVU6 ④	6	12.5	17	20.5	4.2	8	13.5	4.6	10	PVU6_
PVU8 ④	8	14.5	18.1	22.7	4.2	10	15.6	6.7	15	PVU8_
PVU10 ④	10	17.5	20.2	26.2	4.2	12	18.2	8.3	25	PVU10_
PVU12 ④	12	21	23.4	30.2	4.2	14	21.7	10.3	35	PVU12_

Common caution in this page

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

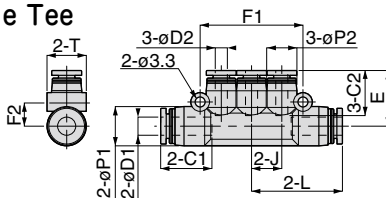


Unit : mm

Model code	Tube O.D. $\phi D1$	Tube O.D. $\phi D2$	B	$\phi P1$	$\phi P2$	Tube end C1	Tube end C2	J	$\phi d$	F	T	Orifice bore (ømm)	Weight (g)	CAD file name
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_
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_
PRG1/4-1/4	1/4"	1/4"	Ask us for the availability (all ports 1/4" O.D.)											

## PKG Unequal Triple Tee

RoHS compliant



Unit : mm

Model code	Tube O.D. $\phi D1$	Tube O.D. $\phi D2$	L	E	J	$\phi P1$	$\phi P2$	Tube end C1	Tube end C2	F1	F2	T	Orifice bore (ømm)	Weight (g)	CAD file name
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	10	18.1	14.9	34	9.2	15	3	20	PKG5_16-5_32_
PKG5/16-3/16④		3/16"	21.7	12	13		17.4		17	40.2	9		4.6	22	PKG5_16-3_16_
PKG5/16-1/4④	3/8"	1/4"	40	21.3	14	17.5	15	20.7	17	46.2	10.5	17.5	4.6	32	PKG3_8-1_4_
PKG3/8-1/4④		23.8		18.1											7
PKG3/8-5/16④	5/16"	5/16"	23.7	18.4	10	13	10	17	14.9	34	8	13	3	16	PKG6-4_
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											18.1
PKG1/4-1/4	1/4"	1/4"	Ask us for the availability (all ports 1/4" O.D.)												

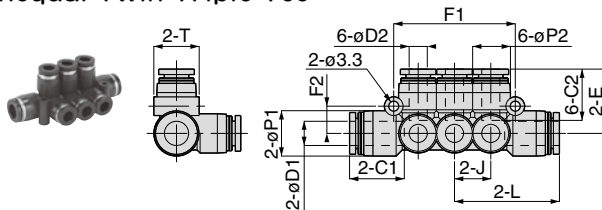
Common caution in this page

\* 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

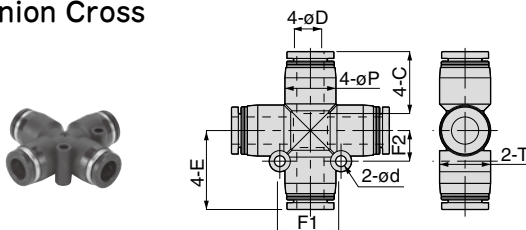


Unit : mm

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
PKVG5/16-5/32④		5/32"		20.7					14.9				3	31	PKVG5_16-5_32
PKVG5/16-3/16④	5/16"	3/16"	34.7	21.7	12	15	13	18.1	17.4	40.2	9	15	4	33	PKVG5_16-3_16
PKVG5/16-1/4④		1/4"		21.3					17				4.6	31	PKVG5_16-1_4
PKVG3/8-3/16④		3/16"		24.2					17.4				4	45	PKVG3_8-3_16
PKVG3/8-1/4④	3/8"	1/4"	40	23.8	14	17.5	15	20.2	17	46.2	10.5	17.5	4.6	43	PKVG3_8-1_4
PKVG3/8-5/16④		5/16"		23.7					18.1				7	47	PKVG3_8-5_16
PKVG8-4④		4		20.7					14.9				3	31	PKVG8-4
PKVG8-6④	8	6	34.7	21.3	12	15	13	18.1	17	40.2	9	15	4.6	32	PKVG8-6
PKVG10-6④		6		23.8					17				4.6	44	PKVG10-6
PKVG10-8④	10	8	40	23.7	14	17.5	15	20.2	18.1	46.2	10.5	17.5	7	48	PKVG10-8

## 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
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
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

Visit Fitting Mini for the sizes of 1/8", 5/32", 3mm, 4mm and 6mm O.D.

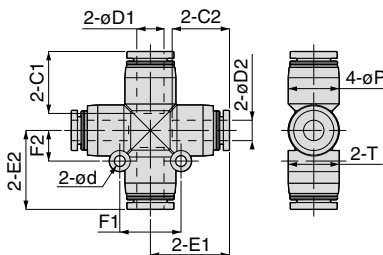
Common caution in this page

※ 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



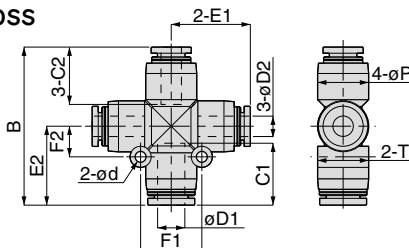
Unit : mm

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
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
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

Visit Fitting Mini for the sizes of 1/8", 5/32", 3mm, 4mm and 6mm O.D.

## 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
PZC5/16-1/4④	5/16"	1/4"	46.5	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
PZC8-6④	8	6	46.45	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

Visit Fitting Mini for the sizes of 1/8", 5/32", 3mm, 4mm and 6mm O.D.

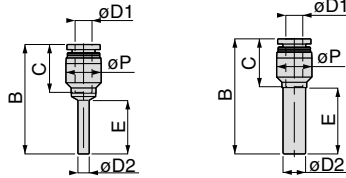
Common caution in this page

※ 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	
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	24.8	14.5	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
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	
PGJ8-1/4④	1/4"		40.8	23.3	12.5	17	4.8	4	PGJ8-1_4	
PGJ8-4④	4	40.2	14.9			2.8	3.8	PGJ8-4		
PGJ8-6④	6	40.8	17			4.3	4	PGJ8-6		
PGJ8-10④	10	8	46.5	22.9	17.5	20.2	6	8.7	PGJ8-10	
PGJ10-1/4④	1/4"		43.8	28.3	12.5	17	4.8	4.5	PGJ10-1_4	
PGJ10-5/16④	5/16"		43.7	24.8	14.5	18.1	6.1	5.8	PGJ10-5_16	
PGJ10-4④	4		42.2	28.3	12.5	14.9	2.8	4.3	PGJ10-4	
PGJ10-6④	6		43.8			17	4.3	4.5	PGJ10-6	
PGJ10-8④	8		43.7			18.1	6.1	5.8	PGJ10-8	
PGJ10-12④	12		51.2	23.5	21	23.4	7.5	13	PGJ10-12	
PGJ12-1/4④	1/4"		10	48.8	33.5	14.5	17	4.8	5.9	PGJ12-1_4
PGJ12-5/16④	5/16"	49.7		18.1			6.1	6.7	PGJ12-5_16	
PGJ12-3/8④	3/8"	50		28.8			17.5	20.2	8.1	9.7
PGJ12-6④	6	48.8		33.5	14.5	17	4.3	6	PGJ12-6	
PGJ12-8④	8	49.7				18.1	6.1	6.7	PGJ12-8	
PGJ12-10④	10	50				28.8	17.5	20.2	8.1	9.6
PGJ16-10④	10	16		55.2	30.8	21	20.2	8.1	15	PGJ16-10
PGJ16-12④	12			55.4			23.4	10	16	PGJ16-12

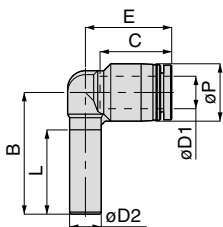
❖ See Fitting Mini series for converting 6mm to 1/4" and 1/4" to 6mm O.D. or 1/8" reducers/expander

※ 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

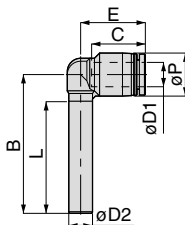


Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	L	øP	Tube end C	E	Orifice bore (ømm)	Weight (g)	CAD file name
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
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

## 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
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
PLLJ3/16M	3/16"	3/16"	Ask us for the details							
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

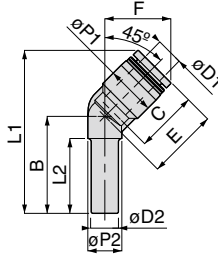
Common caution in this page

※ 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

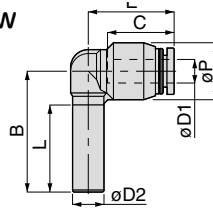


Unit : mm

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
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	PLGJ5_16-1,4
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
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					18.1	28.4	7	13	PLGJ12-8
PLGJ12-10④	10	12	39	26.5	21	20.2	28.7	8	14	PLGJ12-10
PLGJ16-12④	12					23.4	38.2	10.7	26	PLGJ16-12

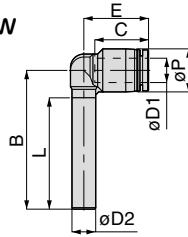
Common caution in this page

- \*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.



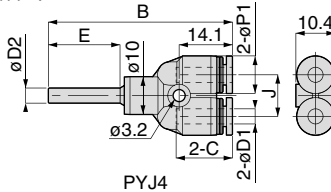
**PLLGJ****Unequal Plug-in Long Elbow**

RoHS compliant

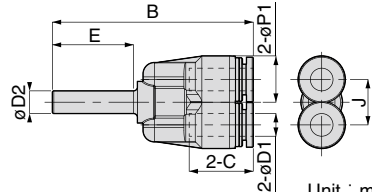


Unit : mm

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**

PYJ4

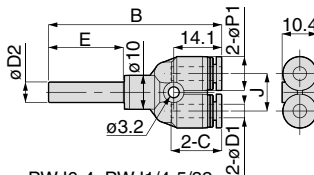


Unit : mm

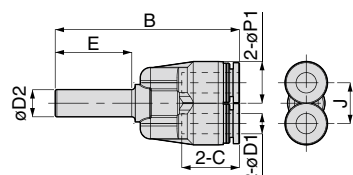
Model code	Tube O.D. øD1	Tube dia. øD2	B	øP1	Tube end C	E	J	Orifice bore (ømm)	Weight (g)	CAD file name
PYJ1/4④	1/4"	1/4"	53.2	12.5	17	21.5	12	3.9	8.6	PYJ1_4
PYJ5/16④	5/16	5/16"	56.1	14.5	18.1	22.5	14	5.9	13	PYJ5_16
PYJ3/8④	3/8"	3/8"	63.2	17.5	20.2	24	18	7.4	21	PYJ3_8
PYJ1/2④	1/2"	1/2"	71.6	21	23.7	28	20	8.9	30	PYJ1_2
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

**PWJ****Unequal Plug-in Y**

RoHS compliant



PWJ6-4, PWJ1/4-5/32

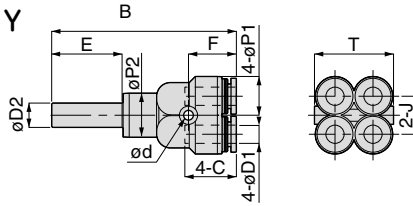


Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	øP1	Tube end C	E	J	Orifice bore (ømm)	Weight (g)	CAD file name
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
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

## PRJ Plug-in Double Y

RoHS compliant

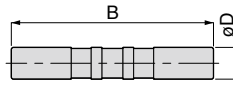


Unit : mm

Model code	Tube O.D. øD1	Tube dia. øD2	B	E	J	øP1	øP2	Tube end C	ød	F	T	Orifice bore (ømm)	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

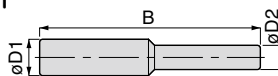


Unit : mm

Model code	Tube dia. øD	B	Orifice bore (ømm)	Weight (g)	CAD file name
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
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

## PIG Unequal Union Stem

RoHS compliant



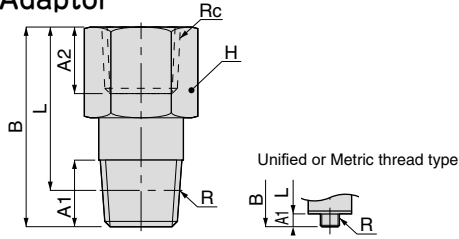
Unit : mm

Model code	Tube dia. øD1	Tube dia. øD2	B	Orifice bore (ømm)	Weight (g)	CAD file name
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
PIG6-4④	6	4	36.7	2.5	0.5	PIG6-4
PIG8-4④		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

**PF**

# Extension Screw Adaptor

RoHS compliant



## ❖ NPT and UNF thread

unit: inch

Model	R	Rc Female thread	A1	A2	B	L	Hex. H	Orifice φ (mm)	Weight (g)
PFU10-U10U	10-32UNF	10-32UNF	0.12	0.20	0.77	0.65	5/16	1.8	5.2
PFU10-N1U	10-32UNF	1/8 NPT	0.12	0.28	0.57	0.45	9/16	1.8	11
PFN1-U10U	1/8 NPT	10-32UNF	0.31	0.24	0.47	0.31	7/16	4.2	6.4
PFN1-N1U	1/8 NPT	1/8 NPT	0.31	0.28	1.12	0.96	9/16	6	17
PFN1-N2U	1/8 NPT	1/4 NPT	0.31	0.37	0.83	0.67	11/16	6	20
PFN1-N3U	1/8 NPT	3/8 NPT	0.31	0.41	0.87	0.70	7/8	6	33
PFN2-U10U	1/4 NPT	10-32UNF	0.43	0.24	0.63	0.40	9/16	4.2	17
PFN2-N1U	1/4 NPT	1/8 NPT	0.43	0.28	0.75	0.52	9/16	4.6	17
PFN2-N2U	1/4 NPT	1/4 NPT	0.43	0.37	1.30	1.07	11/16	8	35
PFN2-N3U	1/4 NPT	3/8 NPT	0.43	0.41	0.98	0.76	7/8	8	35
PFN2-N4U	1/4 NPT	1/2 NPT	0.43	0.51	1.18	0.95	1	8	48
PFN3-N1U	3/8 NPT	1/8 NPT	0.47	0.28	0.69	0.45	11/16	6	25
PFN3-N2U	3/8 NPT	1/4 NPT	0.47	0.37	0.89	0.65	11/16	8	27
PFN3-N3U	3/8 NPT	3/8 NPT	0.47	0.41	1.46	1.22	7/8	10	57
PFN3-N4U	3/8 NPT	1/2 NPT	0.47	0.51	1.22	0.98	1	10	52
PFN4-N4U	1/2 NPT	1/2 NPT	0.59	0.51	1.69	1.37	1	11	94

## ❖ Metric thread

Unit : mm

Model code	R	Rc	A1	A2	B	L	Hex. H	Orifice bore (ømm)	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	R1/8	Rc1/8	8	7	14.5	11.5 [11.3]	14	6	11	PFM5-01[C]
PF01-M5④		M5 × 0.8		6	12	8			10	4.2
PF01-01④	R1/8	Rc1/8	8	7	28.5	24.5	14	6	18	PF01-01
PF01-02④		Rc1/4		9.5	21	17	17		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	14	4.6	17	PF02-01
PF02-02④		Rc1/4		9.5	33	27	17	8	32	PF02-02
PF02-03④		Rc3/8		10.5	25	19	21	8	32	PF02-03
PF02-04④	R3/8	Rc1/2	12	13	30	24	24	44	44	PF02-04
PF03-01④		Rc1/8		7	17.5	11.2	17	6	25	PF03-01
PF03-02④		Rc1/4		9.5	22.5	16.2	8	27	27	PF03-02
PF03-03④		Rc3/8		10.5	37	30.7	21	10	53	PF03-03
PF03-04④	R1/2	Rc1/2	15	13	31	24.7	24	47	47	PF03-04
PF04-04④		Rc1/2		13	43	34.8	24	11	86	86

\* 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.

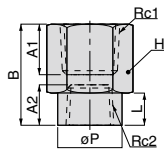
\* 3. Dimensions in [ ] are for clean-room and clean-wash package products.

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

**PPF**

# Unequal Screw Union

R6HS compliant



## ❖ NPT and UNF thread

unit: inch

Model	Rc1 Female thread	Rc2 Female thread	A1	A2	B	L	øP	Hex.	Orifice ø (mm)	Weight (g)
PFFN1-U10U	1/8 NPT	10-32UNF	0.28	0.16	0.67	0.28	0.31	9/16	3	12
PFFN2-N1U	1/4 NPT	1/8 NPT	0.37	0.28	0.83	0.31	0.55	9/16	6.5	23
PFFN3-N1U	3/8 NPT	1/8 NPT	0.37	0.28	0.87	0.31	0.55	7/8	6.5	35
PFFN3-N2U	3/8 NPT	1/4 NPT	0.41	0.37	0.98	0.43	0.67	7/8	9	39
PFFN4-N2U	1/2 NPT	1/4 NPT	0.51	0.37	1.18	0.43	0.67	1	9	59
PFFN4-N3U	1/2 NPT	3/8 NPT	0.51	0.41	1.30	0.55	0.83	1	12	67

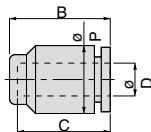
Model code	Rc1	Rc2	A1	A2	B	L	øP	Hex. H	Orifice bore (ømm)	Weight (g)	CAD file name
PFF01-M5 ④	Rc1/8	M5×0.8	7	4	17	7	8	14	4.2	12	PFF01-M5
PFF02-01 ④	Rc1/4	Rc1/8	9.5	7	21	8	14	17	6.5	23	PFF02-01
PFF03-01 ④	Rc3/8	Rc1/8	10.5	7	22	8	14	21	6.5	32	PFF03-01
PFF03-02 ④				Rc1/4	9.5	25	11		17	9	36
PFF04-02 ④	Rc1/2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

Unit : mm

**PPF**

## Cap

R6HS compliant



Unit : mm

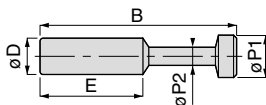
Model code	Tube O.D. øD	B	øP	C	Weight (g)	CAD file name
PPF1/8 ④	1/8"	14.8	10	11	1.6	PPF1_8
PPF5/32 ④	5/32"	16.4	10	14.9	2.4	PPF5_32
PPF3/16 ④	3/16"	18.9	12.5	17.4	3.4	PPF3_16
PPF1/4 ④	1/4"	18.5	12.5	17	3.3	PPF1_4
PPF5/16 ④	5/16"	19.9	14.5	18.4	4.7	PPF5_16
PPF3/8 ④	3/8"	22.3	17.5	20.7	7.8	PPF3_8
PPF1/2 ④	1/2"	25.2	21	23.2	12	PPF1_2
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

❖ PPF16 can be used as 5/8" O.D.

**PP**

## Plug

R6HS compliant



Unit : mm

Model code	Tube dia. øD	B	E	øP1	øP2	Weight (g)	CAD file name
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
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

※ The body color for inch sizes is white.

❖ PP16 can be used as 5/8" O.D.



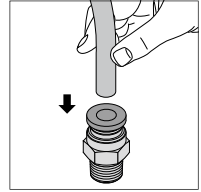
## How to insert and disconnect

### 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.

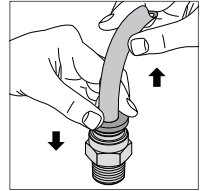
Refer to "6. Instructions for Tube Insertion" under "Common Safety Instructions for Products Listed in This Catalog".



#### 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.

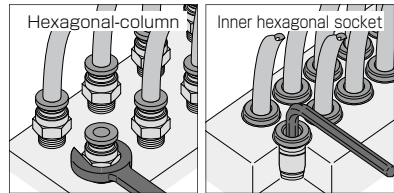


### 2. How to tighten thread

#### 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".



**See "Find Part # " for Inch NPT  
and Metric Push-In fittings**

# 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 panel mounting 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>Fitting body : Black</p> <p>Release ring : Black</p>	 <p>Fitting body : Light-gray</p> <p>Release ring : Light-blue</p>
Tube Fitting Mini	Tube Fitting Mini Clean-room Package
 <p>Fitting body : Black</p> <p>Release ring : Black</p>	 <p>Fitting body : Light-gray</p> <p>Release ring : Light-blue</p>
Tube Fitting Stainless SUS303 Equivalent Corrosivity	Tube Fitting Stainless SUS304
 <p>Guide ring : Without V groove</p> <p>Fitting body : Black</p> <p>Release ring : Dark blue</p> <p>Thread body : Without Flat groove on the hexagonal column</p>	 <p>Guide ring : With V groove</p> <p>Fitting body : Black</p> <p>Release ring : Dark blue</p> <p>Thread body : With Flat groove on the hexagonal column</p>
Tube Fitting PP (Thread material : PP)	Tube Fitting PP (Thread material : SUS304)
 <p>Fitting body : Translucent</p> <p>Release ring : Translucent</p> <p>Thread body : Resin thread</p>	 <p>Fitting body : Translucent</p> <p>Release ring : Translucent</p> <p>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*

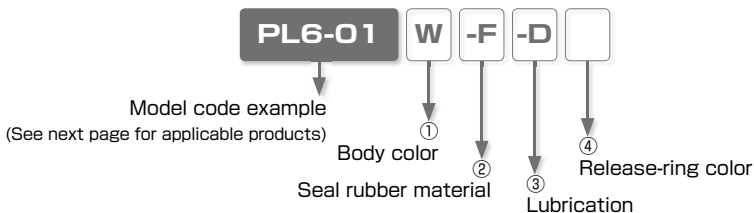
*Suppress CU ion and F ion.*

※ Note: With this option, Check Valve and Stop Fitting, etc. do not have marking on the brass parts. Be careful when piping.

PISCO offers custom 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.

# Make-to-order products

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

\*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 Sealock 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
<b>Tube Fitting Standard Series</b>  <b>Tube Fitting Mini Series</b>	-	(mm size)					
		(inch size)					
	Light-gray	(mm size)					
	Clean-room Pkg	(mm size)					
		(inch size)					
	Light-gray + Clean-room pkg	(mm size)					
<b>Tube Fitting Standard Series</b>	Clean washing + Clean-room pkg	(mm size)				Std. option	
		(inch size)				Std. option	
<b>Tube Fitting Stainless SUS304 series</b>	-	(mm size)		Std. option			
<b>Tube Fitting Stainless SUS303 Equiv. corrosivity</b>	-	(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)						
		(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		

※ 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)

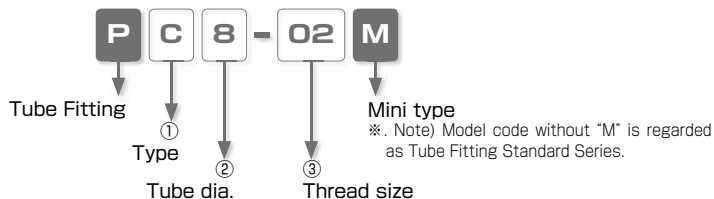
Series	Resin color or Option	Tube dia. size		Seal rubber material		Release-ring color
				-F	-E	-RR
				FKM	EPDM	Red
<b>Speed Controller Series Needle Valve Series</b>	-	(mm size)				
		(inch size)				
	Light-gray	(mm size)				
		(inch size)				
	Clean-room Pkg	(mm size)				
		(inch size)				
	Light-gray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

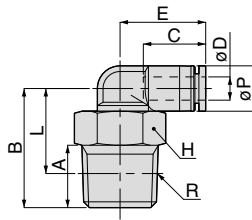
Code	8	10
Size (mm)	ø8	ø10

### ③ Thread size

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



## Elbow



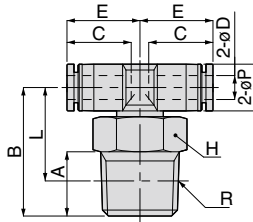
Unit : mm

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.



## Branch Tee



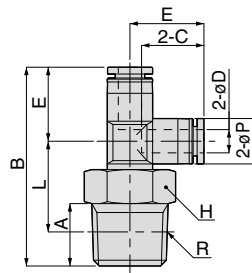
Unit : mm

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.



## 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.