

Installation and Operation

1. Installation and removal of tubing:

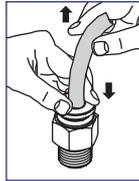
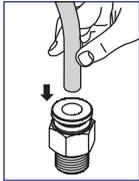
1.1. Installation of tubing

Grasp the tubing and slowly push it into the fitting until it comes to a stop. The tubing will be locked by the spring gasket.

1.2. Removal of tubing

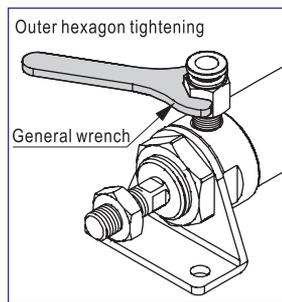
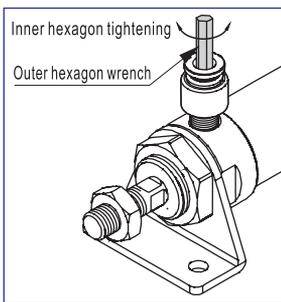
Push the release button to open the spring gasket so that the tubing can be released.

Note: When remove the tubing, make sure the pressure in the tubing is Zero.



2. Connection thread tightening method

Use an inner or outer hexagon wrench to tighten the fitting as show in the picture below.



Note: Please refer to the tables below for the tightening torque and the depth of the thread screw-in.

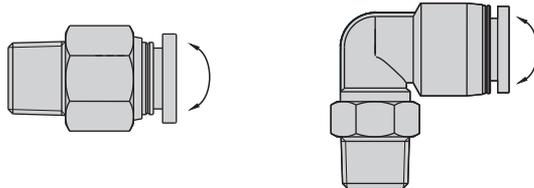
Recommended tightening torque(N.m)					
Thread type	M5	1/8"	1/4"	3/8"	1/2"
Tightening torque	1~1.5	7~9	12~14	22~24	28~30

Model\Item	Depth of the thread screw-in (mm)	
	Thread Length A	Depth of the thread A1
M5	3	3
1/8"	7.5	4
1/4"	10	6
3/8"	11	6.5
1/2"	14	8

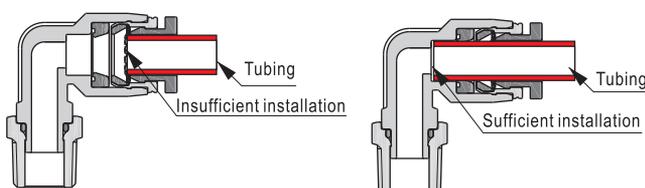
Note: If the fitting is connected with other parts, the external dimension L will be the value of the overall length of the fitting (B) minus the depth of the thread screw-in (A1).

3. Caution

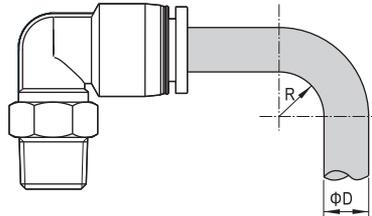
3.1. External force (bend, twist, and tension) may damage the fitting and cause air leakage.



3.2. Insufficient installation may cause air leakage or the tubing to release.



3.3. Pulling or twisting the tubing excessively may damage the fitting. For a mounting guide see the table below.



Minimum bending radius of the tubing(mm)	
Tubing O.D. (ΦD)	Minimum bending radius(R)
4	20
6	30
8	50
10	80
12	150

4. Connection thread tightening method of the fitting with M5 type thread

First, tighten by hand, then use a wrench to tighten an additional 1/4 turn. Excessive tightening may damage the thread portion or deform the gasket and cause air leakage.

Insufficient tightening may loosen the threads, or cause air leakage.

5. Tolerance of the Polyurethane tubing O.D.

Polyurethane tubing O.D.(mm)	4	6	8	10	12
Tolerance(mm)	± 0.1	± 0.1	± 0.1	± 0.15	± 0.15

6. Other precautions

- Before piping is connected, it should be washed to remove chips and other debris from inside the pipe.
- Ensure the tubing being cut perpendicularly and no damage or scratch on the surface of the tubing outside diameter.
- Use pipe length with sufficient margin to avoid over-bending on the top of the fitting.
- Pull the tubing back gently to make sure it has a positive seal before using.
- Push the release button flange evenly and sufficiently to release the button. If the release button is not held down sufficiently, the tubing cannot be withdrawn and the outer surface of the tubing may be scratched and cause air leakage.
- When removing tubing, do not rotate around or 360 degree. This may result in scratch and removal of the tubing difficult.
- When screwing together pipes and fittings, be certain that chips from the pipe threads and sealing material do not get inside the pipe. Also, when the pipe tape is used, leave approx. 1.5~2 thread ridges exposed at the end of the threads.

7. Safety instructions

- When remove the tubing, make sure the pressure in the tubing is Zero.
- Do not use the ordinary fittings and tubing in locations where spatter is generated. Spattering may result in a fire hazard.
- Ensure that the pressure and ambient temperature are within the specified range.
- Do not use in an atmosphere having corrosive gases, chemicals, sea water, water, water steam, or where there is direct contact with any of these.
- Do not use in a place subject to heavy vibration and/or shock.

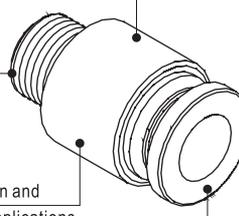


PC, POC series



Product feature

1. The compact appearance space saving.
2. The threaded portion is covered with sealant and the M5 thread is attached with a sealing gasket to prevent air leakage over the connection thread portion.
3. The nickel plated body is anti-corrosion and anti-pollution, which allows broader applications.
4. Grey and black are optional for the release button.



Ordering code

PC 6 01

Model

- PC: Male connector
- POC: Male connector

Thread type

- Blank: PT

Standard color

Standard color	Specification
Blank: Gray	Release button: Gray
D: Black	Release button: Black

Thread connection

Thread connection	Adaptable port size
M5: M5 × 0.8	Φ4\Φ6
01: 1/8"	Φ4\Φ6 Φ8\Φ10\Φ12
02: 1/4"	
03: 3/8"	
04: 1/2"	

Port size

- 4: Φ4mm
- 6: Φ6mm
- 8: Φ8mm
- 10: Φ10mm
- 12: Φ12mm

Table for interface port and tube O.D.

Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
PC	M5	●	●	●	●	●
	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
	3/8"	●	●	●	●	●
	1/2"	●	●	●	●	●
POC	M5	●	●	●	●	●
	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
	3/8"	●	●	●	●	●
	1/2"	●	●	●	●	●

Inner structure

Model: PC

No.	Item	Material
1	Release button	POM
2	Guide	Aluminum alloy
3	Spring gasket	Stainless steel
4	Chuck	POM
5	O-ring	NBR
6	Body	Brass

Specification

Operating pressure range	0-9kgf/cm ² (0-0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	0-60
Applicable tubing	Soft nylon or polyurethane
Color	Grey/black

Dimensions

PC series

M5 thread type

Model\Item	ΦD	R	L	C	K	H(Across flat)	Weight(g)
PC4M5	4	M5×0.8	3.5	19.5	14	9	6.5
PC401		1/8"	7.5	19.5	14	10	7
PC402		1/4"	10	19.5	14	14	13.5
PC6M5		M5×0.8	3.5	22.5	16.5	12	8.5
PC601	6	1/8"	7.5	22.0	18.5	12	7.5
PC602		1/4"	10	24.5	18.5	14	15.5
PC603		3/8"	11	22.5	18.5	17	24
PC604		1/2"	14	26.0	18.5	21	46
PC801	8	1/8"	7.5	28	18.5	14	13.5
PC802		1/4"	10	27	18.5	14	13
PC803		3/8"	11	23.5	18.5	17	21
PC804		1/2"	14	27	18.5	21	43.5
PC1001	10	1/8"	7.5	30	21	17	20.5
PC1002		1/4"	10	32.5	21	17	24
PC1003		3/8"	11	28	21	17	20.5
PC1004		1/2"	14	26.5	21	21	36
PC1201	12	1/8"	7.5	32.5	23	21	38.5
PC1202		1/4"	10	35	23	21	40.5
PC1203		3/8"	11	30.5	23	21	28.5
PC1204		1/2"	14	32.5	23	21	41.5

POC series

M5 thread type

Model\Item	ΦD	R	ΦP	L	C	K	H(Across flat)
POC4M5	4	M5×0.8	9	3.5	18.5	14	2
POC401		1/8"	10	7.5	18	14	2.5
POC402		1/4"	14	10	19.5	14	3
POC6M5	6	M5×0.8	12	3.5	21.5	16.5	2
POC601		1/8"	12	7.5	22.0	18.5	4
POC602		1/4"	14	10	22.0	18.5	4
POC801	8	1/8"	14	7.5	26.5	18	5
POC802		1/4"	14	10	25	18	6
POC803		3/8"	17	11	23.5	18	6
POC1001	10	1/8"	17	7.5	30	21	5
POC1002		1/4"	17	10	29	21	6
POC1003		3/8"	17	11	28	21	8
POC1004	1/2"	21	14	26.5	21	8	
POC1202	12	1/4"	21	10	34.5	23	6
POC1203		3/8"	21	11	30	23	8
POC1204		1/2"	21	14	32	23	8



One-touch fittings---threaded type



Specification

Operating pressure range	0-9kgf/cm ² (0-0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	0-60
Applicable tubing	Soft nylon or polyurethane
Color	Grey/black

Product feature

1. Variable models can be widely used in every kind of pneumatic systems.
2. High circulation performance: bear the same flow with the volume of the tubing inside diameter.
3. Connect tubing easily and conveniently. The tubing connection portion is safe and durable.
4. The threaded portion is covered with sealant and the M5 thread is attached with a sealing gasket to prevent air leakage over the connection thread portion.
5. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.

Table for interface port and tube O.D.

Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
PL	M5	●	●			
	1/8"	●	●	●	●	●
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PLL	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PLF	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PCF	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PMF	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PH	M5	●	●			
	1/8"	●	●	●	●	
	1/4"		●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PHW	1/8"	●	●	●	●	
	1/4"		●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
	PHF	M5	●	●		
1/8"		●	●	●	●	
1/4"			●	●	●	●
3/8"			●	●	●	●
1/2"			●	●	●	●
PEB	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PED	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PYB	M5	●	●			
	1/8"	●	●	●	●	
	1/4"	●	●	●	●	●
	3/8"		●	●	●	●
	1/2"		●	●	●	●
PZB	1/8"		●	●	●	
	1/4"		●	●	●	●
	3/8"		●	●	●	●

Ordering code

Same diameter type fittings

PL 6 01 □ □

Model		Thread type
PHW: Double universal male elbow	PL: Male elbow	Blank: PT
PHF: Universal female elbow	PLL: Extended male elbow	Standard color
PEB: Male branch tee	PLF: Female elbow	
PED: Male run tee	PCF: Female connector	Standard color
PYB: Branch "Y"	PMF: Bulkhead connector	Specification
PZB: Threaded cross	PH: Universal male elbow	Blank: Gray

Standard color	Specification
Blank: Gray	PCF\PMF
	Others
D: Black	PCF\PMF
	Others

Thread connection	Adaptable port size
M5: M5 × 0.8	Φ4\Φ6
01: 1/8"	Φ4\Φ6
02: 1/4"	Φ8\Φ10
03: 3/8"	Φ12
04: 1/2"	

Port size
4: Φ4mm
6: Φ6mm
8: Φ8mm
10: Φ10mm
12: Φ12mm

Different diameter type fittings

PKD 6 - 4 01 □ □

Model		Thread type
PKD: Male reducer triple branch		Blank: PT

Standard color	Specification
Blank: Gray	Release button: Gray
	Body: Gray
D: Black	Release button: Black
	Body: Black

Port size
6: Φ6mm
8: Φ8mm
10: Φ10mm

Port size
4: Φ4mm
6: Φ6mm
8: Φ8mm

Thread connection
01: 1/8"
02: 1/4"
03: 3/8"

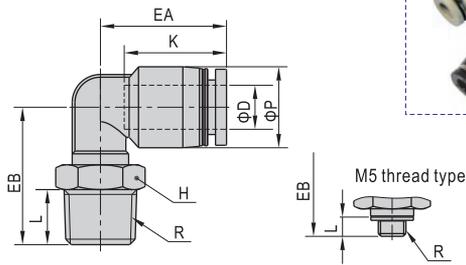
Product series	Thread type	Port size		
		Φ6-Φ4	Φ8-Φ6	Φ10-Φ8
PKD	1/8"	●		
	1/4"		●	
	3/8"			●



One-touch fittings---threaded type

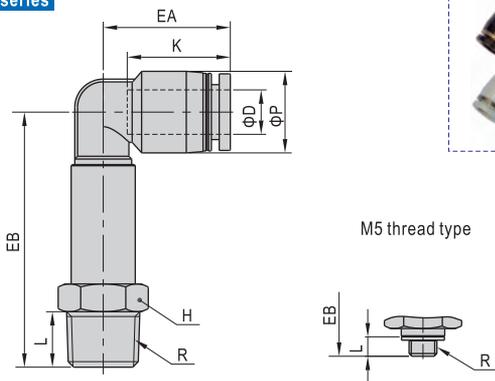
■ Dimensions

PL series



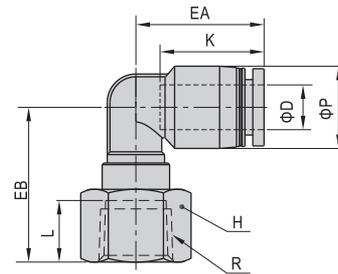
Model\Item	ϕD	R	ϕP	L	K	EA	EB	H(Across flat)	Weight(g)
PL4M5	4	M5×0.8	9	3.5	14	17	15	8	3
PL401		1/8"	9	7.5	14	17	18.5	10	4.5
PL402		1/4"	9	10	14	17	22	14	12
PL6M5	6	M5×0.8	12.5	3.5	17	20	17	8	4.5
PL601		1/8"	12.5	7.5	17	20	20.5	10	6
PL602		1/4"	12.5	10	17	20	24	14	13.5
PL603		3/8"	12.5	11	17	20	25.5	17	20.5
PL604		1/2"	12.5	14	17	20	30.0	21	36
PL801	8	1/8"	15	7.5	18.5	23	20.5	10	7.5
PL802		1/4"	15	10	18.5	23	25	14	13
PL803		3/8"	15	11	18.5	23	26.5	17	21
PL804		1/2"	15	14	18.5	23	31	21	36
PL1001	10	1/8"	18	7.5	21	25.5	25	17	16.5
PL1002		1/4"	18	10	21	25.5	27	17	19
PL1003		3/8"	18	11	21	25.5	28	17	21
PL1004		1/2"	18	14	21	25.5	32.5	21	37
PL1201	12	1/8"	21	7.5	23	28.5	26.5	17	19
PL1202		1/4"	21	10	23	28.5	28.5	17	21.5
PL1203		3/8"	21	11	23	29.5	33	17	25.5
PL1204		1/2"	21	14	23	29.5	34	21	37

PLL series



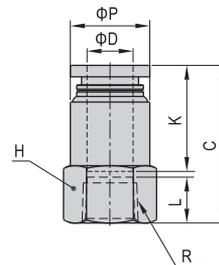
Model\Item	ϕD	R	ϕP	L	K	EA	EB	H(Across flat)
PLL4M5	4	M5×0.8	9	3.5	14	17	32.5	8
PLL401		1/8"	9	7.5	14	17	36	10
PLL402		1/4"	9	10	14	17	39	14
PLL6M5	6	M5×0.8	12.5	3.5	17	20	35	8
PLL601		1/8"	12.5	7.5	17	20	38	10
PLL602		1/4"	12.5	10	17	20	41	14
PLL603		3/8"	12.5	11	17	20	43.5	17
PLL801	8	1/8"	15	7.5	18.5	23	43.5	10
PLL802		1/4"	15	10	18.5	23	46	14
PLL803		3/8"	15	11	18.5	23	48.5	17
PLL1001	10	1/8"	18	7.5	21	25.5	51.5	15
PLL1002		1/4"	18	10	21	25.5	54.5	15
PLL1003		3/8"	18	11	21	25.5	55.5	17
PLL1004		1/2"	18	14	21	25.5	60	21
PLL1202	12	1/4"	21	10	23	28.5	56.5	15
PLL1203		3/8"	21	11	23	29.5	61	17
PLL1204		1/2"	21	14	23	29.5	64	21

PLF series



Model\Item	ϕD	R	ϕP	L	K	EA	EB	H(Across flat)
PLF4M5	4	M5×0.8	9	6	14	17	16	10
PLF401		1/8"	9	8	14	17	21	14
PLF402		1/4"	9	11	14	17	24	17
PLF6M5	6	M5×0.8	12.5	6	17	20	18.5	10
PLF601		1/8"	12.5	8	17	20	23	14
PLF602		1/4"	12.5	11	17	20	26	17
PLF603		3/8"	12.5	12	17	20	27	21
PLF801	8	1/8"	15	8	18.5	23	20	14
PLF802		1/4"	15	11	18.5	23	27.5	17
PLF803		3/8"	15	12	18.5	23	28.5	21
PLF804		1/2"	15	13.5	18.5	23	30	25
PLF1001	10	1/8"	18	8	21	25.5	24	17
PLF1002		1/4"	18	11	21	25.5	26.5	17
PLF1003		3/8"	18	12	21	25.5	30	21
PLF1004		1/2"	18	13.5	21	25.5	31.5	25
PLF1202	12	1/4"	21	11	23	28.5	28.5	17
PLF1203		3/8"	21	12	23	29.5	32	21
PLF1204		1/2"	21	13.5	23	29.5	33	25

PCF series



Model\Item	ϕD	R	ϕP	L	C	K	H(Across flat)
PCF4M5	4	M5×0.8	9	6	21	14	10
PCF401		1/8"	9.5	8	23	14	14
PCF402		1/4"	9.5	11	26	14	17
PCF6M5	6	M5×0.8	12	6	21.5	16.5	12
PCF601		1/8"	12.5	8	25.5	16.5	14
PCF602		1/4"	12.5	11	28.5	16.5	17
PCF603		3/8"	13	12	29.5	16.5	21
PCF604		1/2"	13	13.5	31.0	16.5	25
PCF801	8	1/8"	14	8	27.5	18.5	14
PCF802		1/4"	14.5	11	30.5	18.5	17
PCF803		3/8"	14.5	12	31.5	18.5	21
PCF804		1/2"	14.5	13.5	33	18.5	25
PCF1001	10	1/8"	17	8	29	21	17
PCF1002		1/4"	17	11	33	21	17
PCF1003		3/8"	18	12	34	21	21
PCF1004		1/2"	18	13.5	35.5	21	25
PCF1202	12	1/4"	21	11	33.5	23	21
PCF1203		3/8"	21	12	35.5	23	21
PCF1204		1/2"	21	13.5	37	23	25



Tube fittings

One-touch fittings---threaded type



Product feature

1. Variable models can be widely used in every kind of pneumatic systems.
2. High circulation performance bear the same flow with the volume of the tube inner diameter.
3. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.
4. Metal fittings can be used in high temperature environments.

Specification

Operating pressure range	0~9kgf/cm ² (0~0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	3MPa
Ambient and fluid temperature (°C)	0~150

Note: The temperature resistance level of the tubing should be confirmed first when used in high temperature environments.

Ordering code

BKC 06 04 - 01

Model

BKC: Straight locknut connector

Tubing outer diameter

- 04: Φ4mm
- 06: Φ6mm
- 08: Φ8mm
- 10: Φ10mm
- 12: Φ12mm

Thread type

Blank: PT

Thread connection

- M3: M3X0.5
- M5: M5X0.8
- 01: 1/8"
- 02: 1/4"
- 03: 3/8"
- 04: 1/2"

Tubing inner diameter

- 25: Φ2.5mm
- 04: Φ4mm
- 05: Φ5mm
- 06: Φ6mm
- 65: Φ6.5mm
- 75: Φ7.5mm
- 08: Φ8mm
- 09: Φ9mm

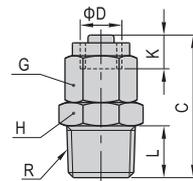
Note: When using the tubing Φ8×Φ5.5, the straight lock nut connector of BKC0806can be used.

Configuration table of tubing and tubing thread

Product series	Tubing outer diameter	Tubing inner diameter	Thread connection					
			M3	M5	01	02	03	04
BKC	04	25	●	●				
	06	04			●	●	●	
	08	05			●	●	●	
		06			●	●	●	
	10	65				●	●	●
		75				●	●	●
	12	08				●	●	●
		09				●	●	●

Dimensions

BKC series



Model/Item	Tubing diameter ΦD	Tubing outer diameter	Tubing inner diameter	R	L	C	K	G(Across flat)	H(Across flat)
BKC0425-M3	4	2.5	M3×0.5	3	17	5	8	8	8
BKC0425-M5				3.5	17.5				
BKC0425-01				7.5	20.5				
BKC0604-01	6	4	1/8"	7.5	22	5.5	10	10	10
BKC0604-02				10	25.5				
BKC0604-03				11	27				
BKC0805-01	8	5	1/8"	7.5	24	6.5	12	12	12
BKC0805-02				10	27.5				
BKC0805-03				11	29				
BKC0806-01	8	5.5 or 6	1/8"	7.5	24	7.5	15	15	15
BKC0806-02				10	27.5				
BKC0806-03				11	29				
BKC1065-02	10	6.5	1/4"	10	30	7.5	17	17	17
BKC1065-03				11	31.5				
BKC1065-04				14	35.5				
BKC1075-02	10	7.5	1/4"	10	30	7.5	17	17	17
BKC1075-03				11	31.5				
BKC1075-04				14	35.5				
BKC1208-02	12	8	1/4"	10	30	7.5	17	17	17
BKC1208-03				11	31.5				
BKC1208-04				14	35.5				
BKC1209-02	12	9	3/8"	10	30	7.5	17	17	17
BKC1209-03				11	31.5				
BKC1209-04				14	35.5				

Installation and application

1. Method of inserting or removal a tubing

1.1 Inserting a tubing

Place the locking cap over the tubing, and insert the tubing into the body, then tighten the locking cap. (As figure 1)

1.2 Removing a tubing

Loosen the locking cap first, then remove the tubing. (As figure 2)

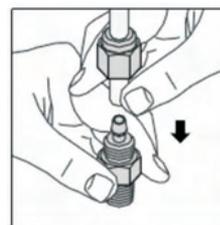


Figure 1

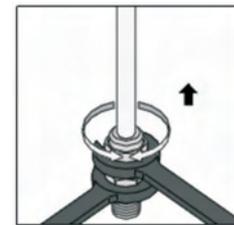
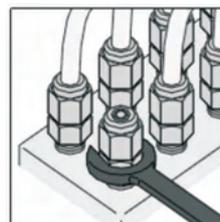


Figure 2

2. Method of tightening the connector thread

Tighten the connector with a hex wrench, as shown below.



One-touch fittings---tube-tube type



Product feature

1. Variable models can be widely used in every kind of pneumatic systems.
2. High circulation performance: bear the same flow with the volume of the tubing inside diameter.
3. Connect tubing easily and conveniently. The tubing connection portion is safe and durable.
4. The threaded portion is covered with sealant and the M5 thread is attached with a sealing gasket to prevent air leakage over the connection thread portion.
5. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.

Table for interface port and tube O.D.

Product series	Port size				
	Φ4	Φ6	Φ8	Φ10	Φ12
PE, PY, PV, PU, PM, PLM, PP, PZ	●	●	●	●	●

Product series	Port size I	Port size II			
		Φ4	Φ6	Φ8	Φ10
PG	Φ4	●			
	Φ6	●			
	Φ8	●	●		
	Φ10		●	●	
	Φ12			●	●
PEG	Φ4	●			
	Φ6	●			
	Φ8		●		
	Φ10			●	
PEW	Φ4	●			
	Φ6	●			
	Φ8		●		
	Φ10			●	
PYW	Φ4	●			
	Φ6	●			
	Φ8		●		
	Φ10			●	
PGJ	Φ4	●			
	Φ6	●			
	Φ8	●	●		
	Φ10		●	●	
PZG	Φ4	●			
	Φ6	●			
	Φ8		●		
	Φ10			●	
PKG	Φ4	●			
	Φ6	●			
	Φ8		●		
	Φ10			●	
PHK	Φ4	●			
	Φ6	●			
	Φ8		●		
	Φ10			●	
PHD	Φ4	●			
	Φ6	●			
	Φ8		●		
	Φ10			●	

Specification

Operating pressure range	0-9kgf/cm ² (0-0.9MPa)
Negative pressure	-750mmHg(10Torr)
Proof pressure	1.5MPa
Ambient and fluid temperature (°C)	0-60
Applicable tubing	Soft nylon or polyurethane
Color	Grey/black

Ordering code

Same diameter type fittings: **PE 6**

Model	
PM: Bulkhead union 	PE: Union tee
PLM: Bulkhead male elbow 	PY: Union "Y"
PP: Plug 	PV: Union elbow
PZ: Cross 	PU: Straight union

Standard color		
Standard color	Specification	
Blank: Gray	PM	Release button: Gray
	Others	Release button: Gray Body: Gray
D: Black	PM	Release button: Black
	Others	Release button: Black Body: Black

Port size

- 4: Φ4mm
- 6: Φ6mm
- 8: Φ8mm
- 10: Φ10mm
- 12: Φ12mm

Different diameter type fittings: **PEG 6-4**

Model	
PG: Different diameter straight 	PEG: Different diameter tee
PZG: Different diameter cross 	PEW: Different diameter tee
PKG: Reducer triple branch union 	PYW: Different diameter union "Y"
PHK: Universal reducer triple branch union 	PGJ: Plug-in reducer

Standard color	
Standard color	Specification
Blank: Gray	Release button: Gray Body: Gray
D: Black	Release button: Black Body: Black

Port size II

- 4: Φ4mm
- 6: Φ6mm
- 8: Φ8mm
- 10: Φ10mm

Port size I

- 4: Φ4mm
- 6: Φ6mm
- 8: Φ8mm
- 10: Φ10mm
- 12: Φ12mm

Inner structure

Model: PG

No.	Item	Material
1	Release button	POM
2	Guide	Aluminum alloy
3	Spring gasket	Stainless steel
4	Chuck	POM
5	O-ring	NBR
6	Body	PBT

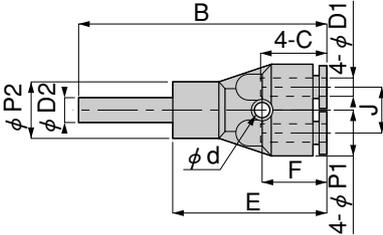


Dimensions (mm)

Branch union double Y UBW



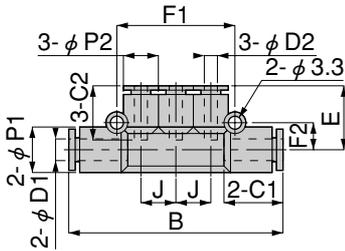
Model	Tube outer diameter ϕ D1	Applicable fitting diameter ϕ D2	B	E	J	ϕ P1	ϕ P2	C1	ϕ d	F	Effective area (mm ²)	Mass (g) [oz.]
UBW6-4	4	6	55	32.7	10	13	10.5	14.9	3.2	14.2	1.5	13 [0.46]
UBW8-6	6	8	60.8	37.3	13	14	13	17	3.5	15.8	7.1	19 [0.67]



Different diameter triple UED



Model	Tube outer diameter ϕ D1	Tube outer diameter ϕ D2	B	E	J	ϕ P1	ϕ P2	C1	C2	F1	F2	Effective area (mm ²)	Mass (g) [oz.]
UED6-4	6	4	60.1	18.4	10	13	10	17	14.9	34	8	5	16 [0.56]
UED8-4	8	4	62.4	19.2	10	15	10	18.1	14.9	34	9.2	6	20 [0.71]
UED8-6		6	69.4	21.3	12		13		17	40.2	9	10.1	23 [0.81]
UED10-6	10	6	80	23.8	14	17.5	15	20.7	17	46.2	10.5	11.2	31 [1.09]
UED10-8		8		23.7					18.1			19.1	33 [1.16]



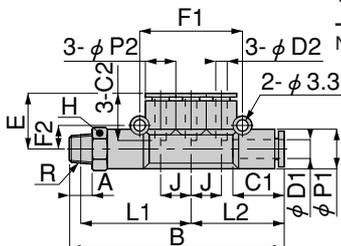
Branch triple TBE



Model	Tube outer diameter ϕ D1	Tube outer diameter ϕ D2	R	A	B	E	Note L1	L2	J	ϕ P1	ϕ P2	C1	C2
TBE6-4-01	6	4	R1/8	8	68.4	18.4	34.3	30.1	10	13	10	17	14.9
TBE8-4-02	8	4	R1/4	11	73.7	19.2	36.5	31.2	10	15	10	18.1	14.9
TBE8-6-02		6			80.7	21.3	40	34.7	12				17
TBE10-8-03	10	8	R3/8	12	93	23.7	46.7	40	14	17.5	15	20.7	18.1

Model	F1	F2	Width across flats H	Effective area (mm ²)	Mass (g) [oz.]
TBE6-4-01	34	8	12	5	24 [0.85]
TBE8-4-02	34	9.2	14	5.2	34 [1.20]
TBE8-6-02	40.2	9		9.6	37 [1.31]
TBE10-8-03	46.2	10.5	17	19.1	60 [2.12]

Note: The L1 dimensions are the reference dimensions after the fittings are assembled.



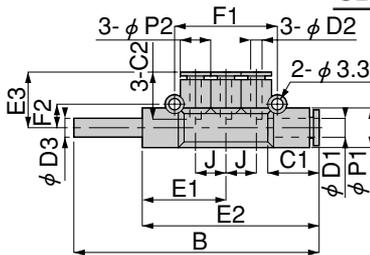
Dimensions (mm)

Branch union triple UBE



Model	Tube outer diameter ϕ D1	Tube outer diameter ϕ D2	Applicable fitting diameter ϕ D3	B	2-J	E1	E2	E3	ϕ P1	ϕ P2	C1	C2
UBE6-4	6	4	6	77.7	10	25.3	55.4	18.4	13	10	17	14.9
UBE8-4	8	4	8	81.2	10	26.5	57.7	19.2	15	10	18.1	14.9
UBE8-6		6		88.2	12	30	64.7	21.3		13		17
UBE10-8	10	8	10	100	14	35	75	23.7	17.5	15	20.7	18.1

Model	F1	F2	Effective area (mm ²)	Mass (g) [oz.]
UBE6-4	34	8	4	15 [0.53]
UBE8-4	34	9.2	4.4	18 [0.63]
UBE8-6	40.2	9	10	21 [0.74]
UBE10-8	46.2	10.5	20.3	31 [1.09]



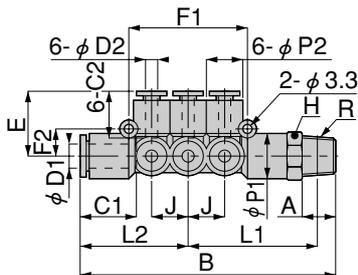
Branch triple double TBEW



Model	Tube outer diameter ϕ D1	Tube outer diameter ϕ D2	R	A	B	E	Note L1	L2	J	ϕ P1	ϕ P2	C1	C2
TBEW8-4-02	8	4	R1/4	11	80.7	20.7	40	34.7	12	15	13	18.1	14.9
TBEW8-4-03			R3/8	12	82.5		41.5						
TBEW8-6-02		6	R1/4	11	80.7	21.3	40						
TBEW8-6-03			R3/8	12	82.5	41.5							
TBEW10-6-03	10	6	R3/8	12	93	23.8	46.7	40	14	17.5	15	20.2	17
TBEW10-6-04			R1/2	15	96		47.8						
TBEW10-8-03		8	R3/8	12	93	23.7	46.7						
TBEW10-8-04			R1/2	15	96		47.8						

Model	F1	F2	Width across flats H	Effective area (mm ²)	Mass (g) [oz.]
TBEW8-4-02	40.2	9	14	4.5	45 [1.59]
TBEW8-4-03			17	4.6	58 [2.05]
TBEW8-6-02			14	10.2	47 [1.66]
TBEW8-6-03			17	10.3	60 [2.12]
TBEW10-6-03	46.2	10.5	17	10.6	70 [2.47]
TBEW10-6-04			21	11.1	93 [3.28]
TBEW10-8-03			17	20.6	74 [2.61]
TBEW10-8-04			21	19.4	96 [3.39]

Note: The L1 dimensions are the reference dimensions after the fittings are assembled.



TAC FITTINGS

For Nylon Tubes, Urethane Tubes,
and Pipe threads

- Compact fitting series for all kinds of compact equipment.
- Wide selection of compact fittings.
- Dedicated nylon tubes are available.

Types and Specifications

Common specifications

Media	Air	
Operating pressure range	MPa [psi.]	0~0.9 [0~131] ^{Note}
Proof pressure	MPa [psi.]	1.35 [196] ^{Note}

Note: Always check the specifications of tubes used.

Remark: For the SUS and NCU specifications, see p.351.

- The recommended tightening torques for thread sizes M3×0.5 and M5×0.8 are 0.6N·m [5.3in·lbf] and 1.6N·m [14.2in·lbf].

Fittings for nylon tubes

Name and type		Straight (barb fitting)								
										
Model		BF3.2-M3	BF4-M3	BF3.2	BF4	BF5	BF6	PBF3.2	PBF5	PBF6
Port size		M3×0.5 (male thread)			M5×0.8 (male thread)			R1/8 (male thread)		
Applicable tube	O.D.×I.D.mm	3.2×2.4	4×2.5	3.2×2.4	4×2.5	5×3	6×4	3.2×2.4	5×3	6×4
Effective area	mm ²	1.0		1.7		2.0	3.6	1.8	2.2	3.9
Operating temperature range	°C [°F]	0~60 [32~140]								
Material		Stainless steel			Brass (nickel plated)					
Mass	g [oz.]	0.7 [0.025]		1.3 [0.046]	1.6 [0.056]	1.4 [0.049]	1.5 [0.053]	5.3 [0.187]	5.4 [0.190]	5.5 [0.194]
Remark	Attachment	With 1 gasket						—		
	Sales unit	1 pack (10 pcs.)						1 pack (5 pcs.)		

Name and type		Straight (clamp fitting)							
									
Model		BF3.2N	BF4N	BF5N	BF6N	BF3.2N-01	BF4N-01	BF5N-01	BF6N-01
Port size		M5×0.8 (male thread)				R1/8 (male thread)			
Applicable tube	O.D.×I.D.mm	3.2×2.4	4×2.5	5×3	6×4	3.2×2.4	4×2.5	5×3	6×4
Effective area	mm ²	1.6	2.0	2.7	3.2	1.6	2.1	2.7	3.6
Operating temperature range	°C [°F]	0~60 [32~140]							
Material		Brass (nickel plated)							
Mass	g [oz.]	5.0 [0.176]	4.5 [0.159]	5.0 [0.176]	4.0 [0.141]	10.5 [0.370]	10.0 [0.353]	9.5 [0.335]	
Remark	Attachment	With 1 gasket				—			
	Sales unit	1 pack (10 pcs.)							

Name and type		Universal elbow (barb fitting)						Universal elbow (clamp fitting)		
										
Model		UEF3.2-M3	UEF4-M3	UEF3.2	UEF4	UEF5	UEF6	UEF4N	UEF5N	UEF6N
Port size		M3×0.5 (male thread)		M5×0.8 (male thread)			M5×0.8 (male thread)			
Applicable tube	O.D.×I.D.mm	3.2×2.4	4×2.5	3.2×2.4	4×2.5	5×3	6×4	4×2.5	5×3	6×4
Effective area	mm ²	0.5		1.2			1.5	1.3	1.4	1.5
Operating temperature range	°C [°F]	0~60 [32~140]								
Material		Body : Brass (nickel plated) Thread : Stainless steel		Brass (nickel plated)				Brass (nickel plated)		
Mass	g [oz.]	1.7 [0.060]	1.8 [0.063]	5.4 [0.190]	5.5 [0.194]	5.7 [0.201]	5.9 [0.208]	13.0 [0.459]		
Remark	Attachment	With 2 gaskets						With 2 gaskets		
	Sales unit	1 pack (5 pcs.)						1 pack (5 pcs.)		

Types and Specifications

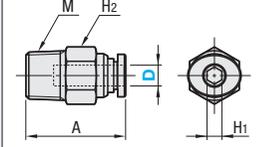
Name and type		Universal tee (barb fitting)						Nipple (barb fitting)			
											
Model		UTF3.2-M3	UTF4-M3	UTF3.2	UTF4	UTF5	UTF6	NBF3.2	NBF4	NBF5	NBF6
Port size		M3×0.5 (male thread)		M5×0.8 (male thread)						—	
Applicable tube O.D.×I.D.mm		3.2×2.4	4×2.5	3.2×2.4	4×2.5	5×3	6×4	3.2×2.4	4×2.5	5×3	6×4
Effective area mm ²		0.6		1.6		1.7		1.6		2.1	3.6
Operating temperature range °C [°F]		0~60 [32~140]									
Material		Body :Brass (nickel plated) Thread :Stainless steel		Brass (nickel plated)				Brass (nickel plated)			
Mass g [oz.]		2.0 [0.071]		5.6 [0.198]	5.7 [0.201]	6.0 [0.212]	6.4 [0.226]	0.25 [0.0088]	0.5 [0.018]	0.75 [0.0265]	1.25 [0.0441]
Remark	Attachment	With 2 gaskets						—			
	Sales unit	1 pack (5 pcs.)						1 pack (10 pcs.)			

One-Touch Couplings

Male Connectors - Outlined with Hex



MSCNL Thread: C3604 (Brass)
: Electroless Nickel Plating
MJCMLS Thread: SUS304



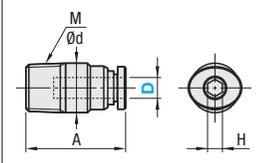
Material: Ring: PBT (Polybutylene Terephthalate)
The drawing is for MSCNL. See the CAD data for MJCMLS.

RoHS

Male Connectors - Outlined with Circle



MSCNC Thread: C3604 (Brass)
: Electroless Nickel Plating



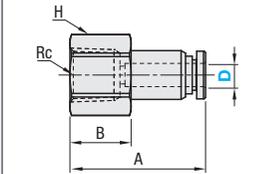
Material: Ring: PBT (Polybutylene Terephthalate)

RoHS

Female Connectors



MSCNF Thread: C3604 (Brass)
: Electroless Nickel Plating



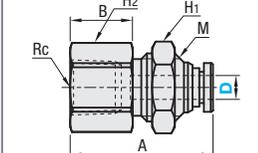
Material: Ring: PBT (Polybutylene Terephthalate)

RoHS

Female Threaded Bulkhead Unions



MSSB Thread: C3604 (Brass)
: Electroless Nickel Plating



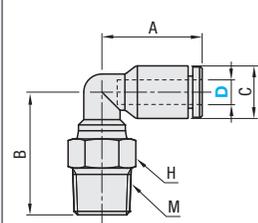
Material: Ring: PBT (Polybutylene Terephthalate)

RoHS

Male Elbows



MSELL Thread: C3604 (Brass)
: Electroless Nickel Plating
MJELLS Thread: SUS304



Material: Body: PBT (Polybutylene Terephthalate)
The drawing is for MSELL. See the CAD data for MJELLS.

RoHS

Part Number Type	D	Nominal	A	Hex Socket H ₂	Wrench Flats H ₂	Thread Size M	Effective Sectional Area (mm ²)	Mass (g)	MSCNL		MJCMLS	
									Unit Price 1-9 pcs(s)	Volume Discount Rate 10-50	Unit Price 1-9 pcs(s)	Volume Discount Rate 10-50
MSCNL MJCMLS	4	M5	20.1(2.5)	2	8(10)	M5x0.8	3.2(4)	4.5(6)	-	-	-	-
		1	20.1(20.5)	3	10	R1/8	8.6(8)	17.3(15)	-	-	-	-
		2	20.1(19.5)	3	14	R1/4	8.3(9)	26.4(26)	-	-	-	-
	6	M5	21.8(23)	2	11(12)	M5x0.8	3.2(4.4)	9.2(11)	-	-	-	-
		1	22.8(23.5)	4	14	R1/8	11.5(10.3)	18.2(18)	-	-	-	-
		2	22.8(21.5)	4	17	R3/8	26.9(22.4)	27.3(24)	-	-	-	-
	8	1	27.7(28)	5	13(14)	R1/8	18.7(17.5)	13.7(11)	-	-	-	-
		2	25(22)	6	14	R1/4	26.9(22.4)	17.1(17)	-	-	-	-
		3	23.7(22.5)	6	17	R3/8	22.2(26)	29.3(26)	-	-	-	-
	10	1	29.4(31)	5	17	R1/8	18.5(17.5)	27.6(22)	-	-	-	-
		2	32.4(32.5)	6	17	R1/4	26.9(30.5)	34.2(37)	-	-	-	-
		3	28.4(28.5)	8	19	R3/8	48.5(49)	58.7(60)	-	-	-	-
12	1	33.8(29.5)	8	21(22)	R1/2	47.9(40)	58.2(66)	-	-	-	-	
	2	27.3(26.5)	8	21	R1/4	26.9(30.5)	34.2(37)	-	-	-	-	
	3	31.8(30.5)	8	19	R3/8	47.9(40)	58.2(66)	-	-	-	-	
16	1	39.7(42)	8	24	R3/8	48.8(90)	58.7(60)	-	-	-	-	
	2	42.3(37.5)	10	24	R1/2	48.8(90)	58.2(66)	-	-	-	-	
	3	39.7(42)	8	24	R3/8	48.8(90)	58.7(60)	-	-	-	-	

Value in () are for MJCMLS. There is no hex portion (H) in the inner circumference.

Part Number Type	D	Nominal	A	Hex Socket H	Od	Thread Size M	Effective Sectional Area (mm ²)	Mass (g)	MSCNC	
									Unit Price 1-9 pcs(s)	Volume Discount Rate 10-50
MSCNC	4	M5	20.1	2	8.2	M5x0.8	3.2	4.2	-	-
		1	20.1	3	10	R1/8	8.6	17.3	-	-
		2	20.1	3	14	R1/4	8.3	26.4	-	-
	6	M5	21.8	2	11	M5x0.8	3.2	7.2	-	-
		1	22	4	11	R1/8	11.5	16.8	-	-
		2	22.8	4	13.5	R1/4	18.7	13.1	-	-
	8	1	27.7	5	13	R1/8	18.7	13.1	-	-
		2	25.7	6	13.5	R1/4	26.9	15.5	-	-
		3	23.7	6	17	R3/8	25.9	29.3	-	-
	10	1	29.4	5	15.5	R1/8	18.5	18	-	-
		2	32.4	6	15.5	R1/4	26.9	23.3	-	-
		3	28.4	8	17	R3/8	38.9	25.7	-	-
12	1	33.8	8	21	R1/2	47.9	46.7	-	-	
	2	27.3	8	21	R1/4	26.9	29.7	-	-	
	3	31.8	8	18.8	R3/8	30.2	39.4	-	-	
16	1	39.7	8	21	R1/2	47.9	50.6	-	-	
	2	35.4	6	18.8	R1/4	26.9	29.7	-	-	
	3	31.8	8	18.8	R3/8	30.2	39.4	-	-	

Part Number Type	D	Nominal	A	B	Wrench Flats H	Thread Size Rc	Effective Sectional Area (mm ²)	Mass (g)	MSCNF	
									Unit Price 1-9 pcs(s)	Volume Discount Rate 10-50
MSCNF	4	1	24.4	11	13	Rc1/8	3.2	13.5	-	-
		2	27.4	14	17	Rc1/4	24.9	24.9	-	-
		1	25.4	11	13	Rc1/8	11.0	14.3	-	-
	6	1	28.4	14	17	Rc1/4	11.0	26.1	-	-
		2	29.4	15	19	Rc3/8	27.6	27.6	-	-
		1	27.7	10	13	Rc1/8	16.4	16.4	-	-
	8	1	30.7	14	17	Rc1/4	25.2	27.7	-	-
		2	31.7	15	19	Rc3/8	29.2	29.2	-	-
		3	32.4	13	17	Rc1/4	30.3	30.3	-	-
	10	1	33.4	15	19	Rc3/8	38.7	32.5	-	-
		2	36.4	18	24	Rc1/2	53.6	53.6	-	-
		3	35.4	12	19	Rc1/4	45.3	45.3	-	-
12	1	36.4	15	19	Rc3/8	39.4	39.4	-	-	
	2	36.4	15	19	Rc3/8	39.4	39.4	-	-	
	4	39.4	18	24	Rc1/2	60.6	60.6	-	-	

Part Number Type	D	Nominal	A	B	Wrench Flats H ₁	Wrench Flats H ₂	Thread Size Rc	Effective Sectional Area (mm ²)	Mass (g)	MSSB	
										Unit Price 1-9 pcs(s)	Volume Discount Rate 10-50
MSSB	4	1	25.1	11	14	14	M12x1.0	3.2	18	-	-
		1	26.3	9	17	17	Rc1/8	11	26	-	-
		2	31.3	14	17	17	Rc1/4	11	30	-	-
	6	1	28.9	8	19	19	Rc1/8	34.5	34.5	-	-
		2	34.9	14	19	19	Rc1/4	25.2	42.5	-	-
		3	35.9	15	19	19	Rc3/8	36	36	-	-
	10	1	32.3	13	24	22	M20x1.0	38.7	58.5	-	-
		2	34.3	15	24	22	Rc3/8	55	55	-	-
		3	37.4	14	24	24	Rc3/8	71.5	71.5	-	-
	12	1	41.4	18	26	24	M22x1.0	44.6	70.5	-	-
		2	41.4	18	26	24	Rc1/2	44.6	70.5	-	-
		4	41.4	18	26	24	Rc1/2	44.6	70.5	-	-

Part Number Type	D	Nominal	Body Color	A	B	C	Wrench Flats H	Thread Size M	Effective Sectional Area (mm ²)	Mass (g)	MSELL		MJELLS	
											Unit Price 1-9 pcs(s)	Volume Discount Rate 10-50	Unit Price 1-9 pcs(s)	Volume Discount Rate 10-50
MSELL MJELLS	4	M5		17.1(18)	14.6(15)		9(10)	9(8)	M5x0.8	3.2	4.6(5)	-	-	-
		1	17.1(18.5)	17.8(20.5)		10	R1/8	4.4(3.5)	7.9(8)	-	-	-	-	
		2	17.1(18.5)	20.8(24)		14	R1/4	8.5(8)	17.1(18)	-	-	-	-	
	6	M5		18(20)	15.7(15)		11.2(12.5)	9(10)	M5x0.8	3.2(4.2)	5.4(7)	-	-	-
		1	18(21)	18.9(24)		10(12)	R1/8	8.7(13)	17.8(18)	-	-	-	-	
		2	18(21)	21.9(28)		14	R1/4	17.1(18)	27.2(26)	-	-	-	-	
	8	1	23.6	20.3(25.5)		10(14)	R1/8	10.4(17)	19.1(20)	-	-	-	-	
		2	23.6	22.8(28.5)		14	R1/4	15(18)	28.4(28)	-	-	-	-	
		3	23.6	23.8(30)		17	R3/8	20.8(26)	28.4(28)	-	-	-	-	
	10	1	25(27)	23.6(28)		17	R1/8	22.1(24.3)	20.8(26)	-	-	-	-	
		2	25(27)	26.6(31)		17	R1/4	31.5(27)	25.5(28)	-	-	-	-	
		3	25(27)	26.1(32.5)		17	R3/8	41.7(33)	47.2(49)	-	-	-	-	
12	1	25(27)	28.5(33)		21(22)	R1/2	41.7(33)	31.1(37)	-	-	-	-		
	2	32.2(29.5)	28.5(34.5)		17(19)	R3/8	42.6(35)	33.1(43)	-	-	-	-		
	3	32.2(29.5)	31.3(39.5)		21(22)	R1/2	52.8(56)	52.8(56)	-	-	-	-		
16	1	34(35.5)	36(41)		20(22)	R3/8	52.9(63)	52.9(63)	-	-	-	-		
	2	34(35.5)	38.5(44)		25.6(26.5)	R1/2	77.8(80)	67.2(76)	-	-	-	-		
	3	34(35.5)	38.5(44)		25.6(26.5)	R1/2	77.8(80)	67.2(76)	-	-	-	-		

Values in () are for MJELLS. Body color of MSELL is black.
Body color selection is available only for MJELLS.

Specifications	MJCMLS MJELLS		MJCMLS Other than MJELLS
	Applicable Fluid	Compressed Air	Water
Operating Temperature Range	-15~60°C	5~40°C	0~60°C
Max. Operating Pressure	1MPa	-	0.9MPa
Operating Vacuum Level	-100kPa	-	-100kPa

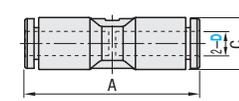
* No Freezing
The entire threaded part C3604 (brass) is plated with electroless nickel. It is also seal-coated and does not need sealant tape (except for M5).

Union Straight



RoHS

USSTL



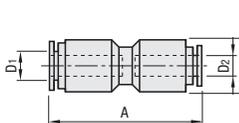
Material: PBT (Polybutylene Terephthalate)

Stepped Diameter Union Straight



RoHS

UJDST



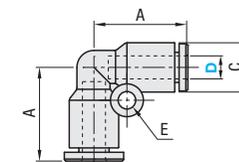
Material: PBT (Polybutylene Terephthalate)

Union Elbows



RoHS

USEBL



Material: PBT (Polybutylene Terephthalate)

Union Tees



RoHS

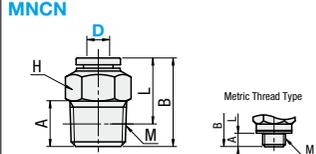
Miniature One-Touch Coupling Connectors

Note that, for some of the types shown here, order might be unable to be received by the MISUMI Malaysia, Indonesia, and/or India offices.

Miniature Couplings

Connectors

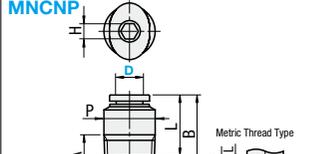
MNCN

RoHS

Connectors with Hex Socket

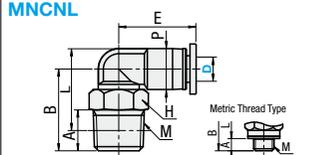
MNCNP

RoHS

Elbows

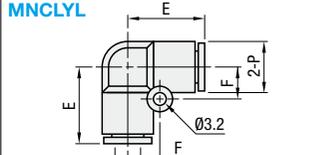
MNCNL

RoHS

Union Elbows

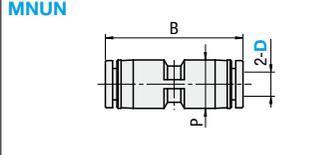
MNCLYL

RoHS

Unions

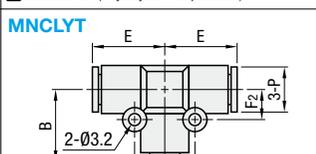
MNUN

RoHS

Union Tees

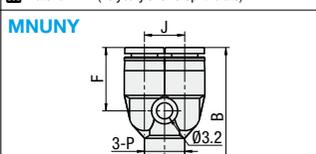
MNCLYT

RoHS

Union Y

MNUNY

RoHS

M Material: PBT (Polybutylene Terephthalate)
Thread: Brass (Electroless Nickel Plating)

Part Number	Nominal Dia.	A	B	L	Width Across H	Thread Size M	Effective Sectional Area (mm ²)	Mass (g)	Unit Price	Volume Discount Rate
Type	D									
MNCN	4	M3	2.5	15.1	12.6	8	M3x0.5	0.9	2.4	
		M5	3	15.6	11.6	10	M5x0.8	3.8	3.2	
	6	M5	3	17	14	10	M5x0.8	3.6	4.5	
		1	8	17.6	13.6	10	R1/8	6.3	6	

Part Number	Nominal Dia.	A	B	L	Width Across H	P	Thread Size M	Effective Sectional Area (mm ²)	Mass (g)	Unit Price	Volume Discount Rate
Type	D										
MNCNP	4	M3	2.5	15.1	12.6	1.5	8	M3x0.5	1.8	2.2	
		M5	3	15.6	12.6	2.5	8	M5x0.8	5.1	3	
	6	M5	3	17.5	14.5	2.5	10	M5x0.8	5.2	4.4	
		1	8	17.9	13.9	4	10	R1/8	13	5.6	

Part Number	Nominal Dia.	A	B	L	P	E	Width Across H	Thread Size M	Effective Sectional Area (mm ²)	Mass (g)	Unit Price	Volume Discount Rate
Type	D											
MNCNL	4	M3	2.5	14	15.5			8	M3x0.5	1.3	3	
		M5	3	14	14.5			8	M5x0.8	2.2	3.4	
	6	M5	3	14.5	16.8			10	R1/8	4.8	6.2	
		1	8	17	18.3	10.5	16	10	R1/8	8.5	6	

Part Number	Type	D	P	E	F	Mass (g)	Unit Price	Volume Discount Rate
MNCLYL	4	8	13.1	5.6	2.3			
	6	10.5	15	6.6	3.6			

Part Number	Type	D	B	P	Effective Sectional Area (mm ²)	Mass (g)	Unit Price	Volume Discount Rate
MNUN	4	22.7	8	5.4	2			
	6	24.4	10.4	11	3.1			

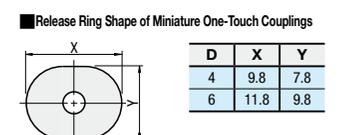
Part Number	Type	D	B	P	E	F ₁	F ₂	Mass (g)	Unit Price	Volume Discount Rate
MNCLYT	4	13.1	8	13.1	11.2	5.6	3.3			
	6	15	10.5	14.95	13.2	6.6	5.3			

Part Number	Type	D	B	P	J	F	Effective Sectional Area (mm ²)	Mass (g)	Unit Price	Volume Discount Rate
MNUNY	4	27.6	8	8	12.6	2.3	3.4			
	6	31	10.5	10.5	14	6.8	5.5			

Ordering Example: Part Number - Nominal Dia.
MNCN4 - M5

Specifications

Applicable Fluid	Air
Operating Temperature Range*	0~60°C
Max. Operating Pressure	1MPa
Operating Vacuum Level	-100kPa



* No Freezing

Barbed Couplers

SRTG BOX-SRTG (50 pcs. / pack)



RoHS

M Material: Brass (for M3 thread, free-cutting steel)
S Surface Treatment: Electroless Nickel Plating
A Accessory: Gasket: SUS304, NBR (M3, M5)

Part Number	Tube I.D. (mm)	Tube O.D. (mm)	M	A	B	L	C	Width Across H	Mass (g)	Effective Sectional Area (mm ²)	Unit Price	Volume Discount Rate
Type	No.											
SRTG BOX-SRTG	4N-0.3	2.5	4	M3x0.5	2.5	12	9.5	5.5	0.8	0.9		
	6N-0.3	4	6	M5x0.8	2.5	13	10	5.5	1.3	0.9		
	4N	2.5	4	M5x0.8	3	13	10	7	1.5	1.7		
	6N	4	6	M5x0.8	3	13	10	7	1.5	3.8		
	4N-1	2.5	4	R1/8	8	19	15	10	1.9	1.7		
	6N-1	4	6	R1/8	8	19	15	10	7.5	3.8		

Nipples

MNPLN



RoHS

M Material: Brass
S Surface Treatment: Electroless Nickel Plating
A Accessory: Gasket: SUS304, NBR

Plugs

MPLGN



RoHS

M Material: Brass
S Surface Treatment: Electroless Nickel Plating
A Accessory: Gasket: SUS304, NBR

Bushings

MBSGN



RoHS

M Material: Brass
S Surface Treatment: Electroless Nickel Plating

Part Number	Effective Sectional Area (mm ²)	Mass (g)	Unit Price	Volume Discount Rate
MNPLN	3.9	1.5		
MPLGN	-	1.5		
MBSGN	12	5.7		
MELBN	-	5.5		
MTEN	-	5.5		
MUTEN	1.5	6.5		

Specifications (SRTG)

Applicable Fluid	Air
Max. Operating Pressure	0.5MPa
Operating Vacuum Level	-100kPa
Operating Temperature Range	0~50°C

Specifications (SRTN, MNPLN, MELBN, MPLGN, MTEN, MBSGN, MUTEN)

Applicable Fluid	Air
Max. Operating Pressure	1MPa
Operating Vacuum Level	-100kPa
Operating Temperature Range	0~50°C

Hose Nipples

SRTN BOX-SRTN (50 pcs. / pack)



RoHS

M Material: Brass
S Surface Treatment: Electroless Nickel Plating
A Accessory: Gasket: SUS304, NBR (M5 only)

Part Number	Tube I.D. (mm)	Tube O.D. (mm)	M	A	B	C	L ₁	L ₂	L ₃	P	Width Across H	Mass (g)	Effective Sectional Area (mm ²)	Unit Price	Volume Discount Rate
Type	No.														
SRTN BOX-SRTN	4N	2.5	4	M5x0.8	3	14.5	11.5	8.5	7	6.5	7	2.5	2		
	6N	4	6	M5x0.8	3	15.5	12	9	7.5	8	8	3.4	3.8		
	4N-1	2.5	4	R1/8	8	20.5	16.5	8.5	7	6.5	10	7.9	2		
	6N-1	4	6	R1/8	8	21	15.5	17	9	7.5	8	10	8.9	3.8	

When SRT□N-1 is selected, seal adhesive is applied to thread portion.
For combination with a tube, select the same number as that of the tube O.D.

Elbows

MELBN



RoHS

M Material: Brass
S Surface Treatment: Electroless Nickel Plating

Tees

MTEN



RoHS

M Material: Brass
S Surface Treatment: Electroless Nickel Plating

Universal Tees

MUTEN



RoHS

M Material: Brass
S Surface Treatment: Electroless Nickel Plating
A Accessory: Gasket: Polyacetal

Ordering Example: Part Number
SRTG4N BOX-SRTG4N

Couplings for Tubes

Nut and Sleeve Integrated Type

Straight **MCPTK**

RoHS Material: SUS316

Part Number Type	Applicable Tube O.D. (mm)	T R (PT) Selection	T R (PT)	Applicable Tube I.D. (mm)	L	ℓ	B ₁ (Wrench Flats)	B ₂ (Wrench Flats)	Unit Price	Volume Discount Rate	
MCPTK	3.2	1	1/8	1.6	24	9	10	10	1-4 pcs/	5-20	
		2	1/4	2	26	11	14	10			
		3	3/8	3	26	11	14	10			
	6	4	1	1/8	4	28.5	11	14	12		
			2	1/4	2	30	12	17			
			3	3/8	3	30	12	17			
	8	6	1	1/8	6	28	9	14	14		
			2	1/4	2	30	11	14			
			3	3/8	3	31	12	17			
	10	8	2	1/4	8	32	11	17	17		
			3	3/8	3	33	12	17			
			4	1/2	4	36	15	22			
12	10	2	1/4	10	34	11	17	19			
		3	3/8	3	35	12	17				
		4	1/2	4	38	15	22				

Elbows **MCLPTK**

RoHS Material: SUS316

Part Number Type	Applicable Tube O.D. (mm)	T R (PT) Selection	T R (PT)	Applicable Tube I.D. (mm)	L ₁	L ₂	ℓ	B ₁ (Wrench Flats)	B ₂ (Wrench Flats)	Unit Price	Volume Discount Rate	
MCLPTK	3.2	1	1/8	1.6	18	20	9	12	10	1-4 pcs/	5-20	
		2	1/4	2	18	20	9	12	10			
		3	3/8	3	21	21	11	14	10			
	6	4	1	1/8	4	18	21.5	9	12	12		
			2	1/4	2	21	22.5	11	14			
			3	3/8	3	23	23.5	12	17			
	8	6	1	1/8	6	19	24	9	14	14		
			2	1/4	2	21	24	11	14			
			3	3/8	3	23	25	12	17			
	10	8	2	1/4	8	22	26.5	11	17	17		
			3	3/8	3	23	26.5	12	17			
			4	1/2	4	29	28.5	15	22			
12	10	2	1/4	10	23	27.5	11	17	19			
		3	3/8	3	27	30	12	22				
		4	1/2	4	30	30	15	22				

Panel Mount **MCBU**

RoHS Material: SUS316

Part Number Type	No.	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L	B	Wrench Flats H ₁ H ₂ H ₃	C	D	E	M	Unit Price	Volume Discount Rate
MCBU	4	4	2.5	41	6	14 10 14 17	8	4		M12x1.0	1-4 pcs/	5-20
	6	6	4	44	7	17 12 17 18.5	8	4		M14x1.0		
	8	8	6	47	7.5	19 14 19 20	8	4		M16x1.0		
	10	10	8	50	8	22 17 22 21.5	8	4		M18x1.0		
12	12	10	54	9.5	24 19 24 23	8	5		M20x1.0			

Tees **MCTPT**

RoHS Material: SUS316

Part Number Type	No.	Thread Size R (PT)	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L ₁	L ₂	A	B	Wrench Flats H ₁ H ₂	Unit Price	Volume Discount Rate
MCTPT	4-1	1/8	4	2.5	20	18	9	6	12 10	1-9 pcs/	10-20
		1/4	4	21	21	11	6	14 10			
		3/8	4	21.5	18	9	7	12 12			
	6-1	1/8	6	4	22.5	21	11	7	14 12		
		1/4	6	5	23.5	19	9	7.5	14 14		
		3/8	6	23.5	19	9	7.5	14 14			
	8-15	1/8	8	6	23.5	21	11	7.5	14 14		
		1/4	8	6	23.5	21	11	7.5	14 14		
		3/8	8	25	23	12	7.5	17 14			
	8-2	1/8	8	6	25	23	12	7.5	17 14		
		1/4	8	6	25	23	12	7.5	17 14		
		3/8	8	25	23	12	7.5	17 14			
8-36	1/8	8	6	25	23	12	7.5	17 14			
	1/4	8	6.5	28.5	25	11	8	22 17			
	3/8	8	28.5	26	12	8	22 17				
10-2	1/8	10	8	28.5	26	12	8	22 17			
	1/4	10	8	28.5	26	12	8	22 17			
	3/8	10	8	28.5	26	12	8	22 17			
10-36	1/8	10	8	30	26	11	9.5	22 19			
	1/4	10	8	30	26	11	9.5	22 19			
	3/8	10	30	26	11	9.5	22 19				
12-2	1/8	12	10	30	27	12	9.5	22 19			
	1/4	12	10	30	27	12	9.5	22 19			
	3/8	12	10	30	27	12	9.5	22 19			

Unions **MCUN**

RoHS Material: SUS316

Part Number Type	No.	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L	B	Wrench Flats H ₁ H ₂	Unit Price	Volume Discount Rate
MCUN	4	4	2.5	28	6	10 10	1-9 pcs/	10-20
	6	6	4	32	7	12 12		
	8	8	6	36	7.5	14 14		
	10-6	10	6.5	40	8	17 17		
	10	10	8	40	8	17 17		
	12-8	12	8	44	9.5	17 19		
	12-9	12	9	44	9.5	17 19		
	12	12	10	44	9.5	17 19		

Union Tees **MCUT**

RoHS Material: SUS316

Part Number Type	No.	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L	B	Wrench Flats H ₁ H ₂	Unit Price	Volume Discount Rate
MCUT	4	4	2.5	20	6	12 10	1-9 pcs/	10-20
	6	6	4	21.5	7	12 12		
	8-5	8	5	23.5	7.5	14 14		
	8	8	6	23.5	7.5	14 14		
	10	10	8	28.5	8	22 17		
	12-8	12	8	30	9.5	22 19		
	12-9	12	9	30	9.5	22 19		
	12	12	10	30	9.5	22 19		

Ordering Example: Part Number - T MCPTK4 - 1

Half Unions **MCTPTY**

RoHS Material: SUS316

Part Number Type	No.	Thread Size R (PT)	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L	A	B	Wrench Flats H ₁ H ₂	Unit Price	Volume Discount Rate
MCTPTY	4-1	1/8	4	2.5	24	9	6	10 10	1-9 pcs/	10-30
		1/4	4	26	11	6	14 10			
		3/8	4	28	9	7.5	14 14			
	8-1	1/8	8	6	30	11	7.5	14 14		
		1/4	8	31	12	7.5	17 14			
		3/8	8	31	12	7.5	17 14			
	10-2	1/8	10	8	32	11	8	17 17		
		1/4	10	33	12	8	17 17			
		3/8	10	33	12	8	17 17			
	10-3	1/8	10	8	32	11	8	17 17		
		1/4	10	33	12	8	17 17			
		3/8	10	33	12	8	17 17			
10-4	1/2	10	8	36	15	8	22 17			
	3/8	10	34	11	9.5	17 19				
	1/4	10	35	12	9.5	17 19				
12-3	1/2	12	8	38	15	9.5	22 19			
	3/8	12	35	12	9.5	17 19				
	1/2	12	38	15	9.5	22 19				

The difference between MCPTK and MCTPTY is the tube I.D. Select parts according to the tube to be used.

Half Elbows **MCUNE**

RoHS Material: SUS316

Part Number Type	No.	Thread Size R (PT)	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L ₁	L ₂	A	B	Wrench Flats H ₁ H ₂	Unit Price	Volume Discount Rate
MCUNE	4-1	1/8	4	2.5	20	18	9	6	12 10	1-9 pcs/	10-30
		1/4	4	21	21	11	6	14 10			
		3/8	4	24	19	9	7.5	14 14			
	8-1	1/8	8	6	24	21	11	7.5	14 14		
		1/4	8	24	21	11	7.5	14 14			
		3/8	8	25	23	12	7.5	17 14			
	10-2	1/8	10	8	26.5	22	11	8	17 17		
		1/4	10	26.5	23	12	8	17 17			
		3/8	10	28.5	29	15	8	22 17			
	10-3	1/8	10	8	26.5	23	12	8	17 17		
		1/4	10	28.5	29	15	8	22 17			
		3/8	10	27.5	23	11	9.5	17 19			
12-2	1/8	12	8	30	27	12	9.5	22 19			
	1/4	12	30	27	12	9.5	22 19				
	3/8	12	30	30	15	9.5	22 19				

The difference between MCLPTK and MCUNE is the tube I.D. Select parts according to the tube to be used.

Union Elbows **MCUE**

RoHS Material: SUS316

Part Number Type	No.	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L ₁	L ₂	B	Wrench Flats H ₁ H ₂	Unit Price	Volume Discount Rate
MCUE	6	6	4	23.5	23.5	7	12 12	1-4 pcs/	5-10
	8	8	6	27	27	7.5	14 14		
	10	10	8	28.5	28.5	8	17 17		
	12	12	10	30	30	9.5	19 19		

Nipples **TJBNC**

RoHS Material: Brass

Part Number Type	D (Hose O.D.)	Nominal	Tube I.D. (mm)	L	L ₁	B	H ₁	H ₂	T R (PT)	Mass (g)	Unit Price	Volume Discount Rate
TJBNC	6	1	4	26	22	12.5	12	12	R1/8	18	1-9 pcs/	10-20
		2	4	28.5	22.5	14	12	R1/4	26			
		3	4	28	24	14	14	R1/8	25			
	8	1	5	30	24	14	14	R1/4	30			
		2	5	31	24.6	17	14	R3/8	41			
		3	5	32	26	17	17	R1/4	43			
10	1	6.5	33	26.6	15.5	17	R3/8	50				
	2	6.5	34	28	17	19	R1/4	49				
	3	6.5	35	28.6	17	19	R3/8	57				

Couplings with Tube Insert

Nut and Sleeve Integrated Type

Connectors **TCRH**

RoHS

Material: Brass

Part Number	Applicable Tube O.D. (mm)	Nominal	R(PT)	Applicable Tube I.D. (mm)	L	B	C	d	H1 Wrench Flats	H2 Wrench Flats	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
TCRH	4	1	1/8	2.5	28	13.5	3.5	1.3	10	10	13		
		2	1/4		28.5	13.5	3.5	1.3	14	10	18		
	6	1	1/8	4	27.5	14	4.5	2.7	10	12	14		
		2	1/4		28	14	4.5	2.7	14	12	21		
TCRH	8	1	1/8	6	28	16	5.5	4.7	12	14	17		
		2	1/4		28	16	5.5	4.7	14	14	23		
	10	2	1/4		29.5	16	5.5	4.7	17	14	31		
		3	3/8		30.5	19	5.5	6	17	17	30		
TCRH	10	3	3/8	7.5	31.5	19	5.5	6	17	17	36		
		4	1/2		34.5	19	5.5	6	22	17	54		

Elbows **TCRL**

RoHS

Material: Brass

Part Number	Applicable Tube O.D. (mm)	Nominal	R(PT)	Applicable Tube I.D. (mm)	L1	L2	B	C	d	H Wrench Flats	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
TCRL	4	1	1/8	2.5	20	22	13.5	3.5	1.3	10	20		
		2	1/4		21	23	13.5	3.5	1.3	10	29		
	6	1	1/8	4	20	20	14	4.5	2.7	12	21		
		2	1/4		21	22.5	14	4.5	2.7	12	31		
TCRL	8	1	1/8	6	21	21	16	5.5	4.7	14	26		
		2	1/4		21	21	16	5.5	4.7	14	30		
	10	2	1/4		24	24.5	16	5.5	4.7	14	51		
		3	3/8		23	25	19	5.5	6	17	45		
TCRL	10	3	3/8	7.5	24	25	19	5.5	6	17	53		
		4	1/2		29	28.5	19	5.5	6	17	88		

Union Elbows **TCRF**

RoHS

Material: Brass

Part Number	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L	B	C	d	H Wrench Flats	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
TCRF	4	2.5	22	13.5	3.5	1.3	10	22		
	6	4	20	14	4.5	2.7	12	24		
	8	6	21	16	5.5	4.7	14	31		
	10	7.5	25	19	5.5	6	17	54		

Union Connectors **TCRS**

RoHS

Material: Brass

Part Number	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L	B	C	d	H1 Wrench Flats	H2 Wrench Flats	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
TCRS	4	2.5	30.5	13.5	3.5	1.3	8	10	14		
	6	4	29.5	14	4.5	2.7	10	12	19		
	8	6	30	16	5.5	4.7	12	14	24		
	10	7.5	34	19	5.5	6	17	17	40		

Union Tees **TCRT**

RoHS

Material: Brass

Part Number	Applicable Tube O.D. (mm)	Applicable Tube I.D. (mm)	L	B	C	d	H Wrench Flats	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
TCRT	4	2.5	22	13.5	3.5	1.3	10	30		
	6	4	20	14	4.5	2.7	12	33		
	8	6	21	16	5.5	4.7	14	44		
	10	7.5	25	19	5.5	6	17	74		

Ordering Example Part Number - Nominal
TCRH4 - 1

Specifications

Applicable Fluid	Air, Water, Oil
Operating Temperature Range*	Air: -20 ~ 60°C Water: 0 ~ 60°C Oil: -20 ~ 60°C
Max. Operating Pressure	It applies to Maximum Operating Pressure of tubes.
Operating Vacuum Level	~100kPa

* No Freezing

Rotary Joints / High Rotary Joints

Rotary Joints Connectors **RTCN**

RoHS

Metric Thread Type

Part Number	Nominal	Thread Size	A	B	L	P	Width Across H	Allowable Revolutions (min ⁻¹)	Rotary torque (N·cm)	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
RTCN	4	M5	3	32.6	29.6		10	12	500	0.6	1.9	13	
		R1/8	8	34.1	30.1					3.6	14		
	6	M5	3	36.2	33.2		12.5	14	500	1.2	-	19	
		R1/4	11	38.9	32.8					9	23		
	8	R1/8	8	45.3	41.3						34		
		R1/4	11	44.3	38.3		14.5	17	400	1.5	20	32	
10	R3/8	12	58.8	52.8						39			
	R1/4	11	58.8	52.8		17.8	22	300	2.0	35	74		
RTCN	10	R3/8	12	56.8	50.5						70		

Rotary Joints Elbows **RTCNL**

RoHS

Metric Thread Type

Part Number	Nominal	Thread Size	A	B	L	P	E	Width Across H	Allowable Revolutions (min ⁻¹)	Rotary torque (N·cm)	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
RTCNL	4	M5	3	20.5	22.5		10	19.7	12	500	0.6	1.5	13	
		R1/8	8	22	23						2.9	15		
	6	M5	3	23.3	26.5		12.5	22.8	14	500	1.2	-	20	
		R1/4	11	26	26.2						7.5	19		
	8	R1/8	8	31.5	34.7							24		
		R1/4	11	30.5	31.7		14.5	25.7	17	400	1.5	16.5	33	
10	R3/8	12	30.5	31.4							41			
	R1/4	11	38.3	41		17.5	29.5	22	300	2.0	21	67		
RTCNL	10	R3/8	12	36.3	38.7						30	63		

Turning torque is the torque necessary for the joint to turn when it is free of compressed air pressure.

Features

- Use as handy couplings for connecting tubes to swivel and rotary parts of general pneumatic equipment.
- With ball bearings used at the rotary part, rotary joints offer suitable use for tube connecting to swivel and rotary equipment parts.

Structure Diagram

Specifications

Applicable Fluid	Air
Operating Temperature Range*	0 ~ 60°C
Max. Operating Pressure	1MPa
Operating Vacuum Level	~100kPa

* No Freezing

High Rotary Joints Straight **RHTCN**

RoHS

Metric Thread Type

Part Number	Nominal	Thread Size	A	B1	B2	L	P1	P2	Width Across H	Allowable Revolutions (min ⁻¹)	Rotary torque (N·cm)	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
RHTCN	4	M5	3	43.2	22.7	40.2	11	11.6	12	1500	1.5	2.2	24		
		R1/8	8	47.7	43.7							3.4	28		
	6	R1/8	8	54.8	26.8	50.8	13	16.6	17	1200	1.5	12	51		
		R1/4	11	57.8	51.7							11.5	56		
	8	R1/8	8	58.1	30.1	54.1	15	16.6	17	1200	1.5	12	57		
		R1/4	11	61.1	55.1							12.5	63		

High Rotary Joints Elbows **RHTCNL**

RoHS

Metric Thread Type

Part Number	Nominal	Thread Size	A	B1	B2	L	P1	P2	Width Across H	Allowable Revolutions (min ⁻¹)	Rotary torque (N·cm)	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
RHTCNL	4	M5	3	33.7	13.2	19.7	11.6	11.6	12	1500	1.5	2.2	21		
		R1/8	8	38.2		19.7	11.6	11.6	12	1500	1.5	4.1	26		
	6	R1/8	8	44.5	16.5	22.8	12.5	16.6	17	1200	1.5	10	47		
		R1/4	11	47.5	47.5	22.8	12.5	16.6	17	1200	1.5	10.5	53		
	8	R1/8	8	45.5	17.5	25.7	14.5	16.6	17	1200	1.5	11.5	50		
		R1/4	11	48.5	48.5	25.7	14.5	16.6	17	1200	1.5	13	56		

High Rotary Joints Bushing **RHTCF**

RoHS

Metric Thread Type

Part Number	No.	M1	M2	A1	A2	B1	B2	L	P	Width Across H	Width Across H	Allowable Revolutions (min ⁻¹)	Rotary torque (N·cm)	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1~9 pc(s).	Volume Discount Rate 10~20
RHTCF	11	R1/8	Rc1/8	8	9.5	47.2	19.2	43.2	16.6	17	14	1200	1.5	13.9	50		
	22	R1/4	Rc1/4	11	13.5	54.2	23.2	48.2	16.6	17	17	1200	1.5	11.2	68		
	33	R3/8	Rc3/8	12	14.5	62.1	26.6	55.8	23.6	24	22	900	2.5	47.2	133		

Features

- Use as handy couplings for connecting tubes to swivel and fast rotary parts of general pneumatic equipment.
- With two ball bearings used at the rotary part, rotary joints offer suitable use for tube connecting to fast-moving swivel and rotary equipment parts.

Structure Diagram

Specifications

Applicable Fluid	Air
Operating Temperature Range*	0 ~ 60°C
Max. Operating Pressure	1MPa
Operating Vacuum Level	~100kPa

* No Freezing

Ordering Example Part Number - Nominal
RTCN4 - M5
RHTCN6 - 2

One-Touch Couplings

Similar Products Comparison Points | Electroless nickel plating applied to the thread enhances appearance and corrosion resistance compared to C-VALUE products.

When ordering, select Part Number and Values from Selection Steps ①~③.

Ordering Example: Part Number (①Type · ②D) - ③Nominal - ④Body Color

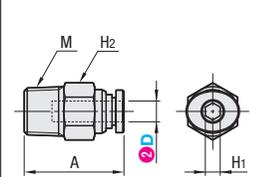
MSELLS8 - 2 - W
MSCNC10 - 1

Male Connectors - Outlined with Hexagon



CAD 2D 3D RoHS

MSCNL Threads: C3604 (Brass) : Electroless Nickel Plating



Material Ring: PBT (Polybutylene Terephthalate)

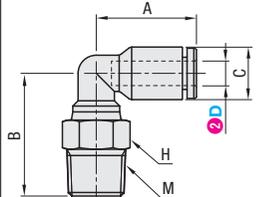
Part Number	①Type	②D	③Nominal	A	Hexagon Socket Width Across Flats H	Thread Size M	Effective Sectional Area (mm²)	Mass (g)
MSCNL	4	M5	1	20.1	2	8	M5x0.8	4.5
			2	20.1	3	10	R1/8	3.2
			3	20.1	14	R1/4	17.3	
	6	M5	1	21.8	2	11	M5x0.8	3.2
			2	22.8	4	14	R1/8	9.2
			3	22.8	17	R3/8	28.4	
	8	M5	1	27.7	5	13	R1/4	18.7
			2	27.7	6	14	R1/4	26.9
			3	27.7	19	R3/8	27.3	
	10	M5	1	29.4	5	17	R1/8	18.5
			2	32.4	6	17	R1/4	26.9
			3	28.4	8	R3/8	29.3	
12	M5	1	27.3	8	21	R1/2	38.9	
		2	35.4	6	19	R1/4	26.9	
		3	31.8	8	R3/8	33.5		
			4	33.8	8	21	R1/2	47.9

Male Elbows (MESELL)



CAD 2D 3D RoHS

MSELL Threads: C3604 (Brass) : Electroless Nickel Plating



Material Main Body: PBT (Polybutylene Terephthalate)

Part Number	①Type	②D	③Nominal	A	B	C	Wrench Flats H	Thread Size M	Effective Sectional Area (mm²)	Mass (g)
MSELL	4	M5	1	17.1	14.6	9	9	M5x0.8	3.2	4.6
			2	17.1	17.8	9	10	R1/8	4.4	7.9
			3	17.1	20.8	14	R1/4	17		
	6	M5	1	18	15.7	9	10	M5x0.8	3.2	5.4
			2	18	18.9	11.2	10	R1/8	8.7	
			3	18	21.9	14	R1/4	17.8		
	8	M5	1	23.6	20.3	10	10	R1/8	10.4	18
			2	23.6	22.8	13.6	14	R1/4	15	
			3	23.6	23.8	17	R3/8	28.4		
	10	M5	1	25	23.6	17	17	R1/8	22.1	20.8
			2	25	26.6	16.3	17	R1/4	25.5	
			3	25	26.1	17	R3/8	31.5		
12	M5	1	25	29.1	21	21	R1/2	47.2	42	
		2	32	28.5	19	17	R1/4	41.7		
		3	32	28	19	17	R3/8	33.1		
			4	32.2	31	21	R1/2	42.6		

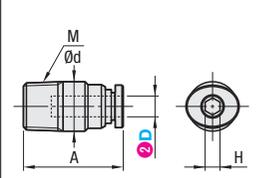
Body color for MSELL is Black.

Male Connectors - Outlined with Circle



CAD 2D 3D RoHS

MSCNC Threads: C3604 (Brass) : Electroless Nickel Plating



Material Ring: PBT (Polybutylene Terephthalate)

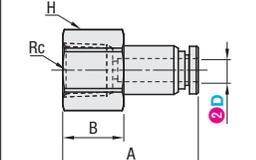
Part Number	①Type	②D	③Nominal	A	Hexagon Socket H	Ød	Thread Size M	Effective Sectional Area (mm²)	Mass (g)
MSCNC	4	M5	1	20.1	2	8.2	M5x0.8	3.2	4.2
			2	20.1	3	10	R1/8	7.2	
			3	20.1	14	R1/4	17.3		
	6	M5	1	21.8	2	11	M5x0.8	3.2	4.6
			2	22.8	4	13.5	R1/4	11.5	
			3	22.8	17	R3/8	28.4		
	8	M5	1	27.7	5	13	R1/8	18.7	13.1
			2	27.7	6	13.5	R1/4	26.9	
			3	27.7	19	R3/8	27.3		
	10	M5	1	29.4	5	15.5	R1/8	18.5	18
			2	32.4	6	15.5	R1/4	26.9	
			3	28.4	8	R3/8	29.3		
12	M5	1	27.3	8	21	R1/2	38.9	46.7	
		2	35.4	6	18.8	R1/4	26.9		
		3	31.8	8	R3/8	30.2			
			4	33.8	8	21	R1/2	47.9	

Female Connectors



CAD 2D 3D RoHS

MSCNF Threads: C3604 (Brass) : Electroless Nickel Plating



Material Ring: PBT (Polybutylene Terephthalate)

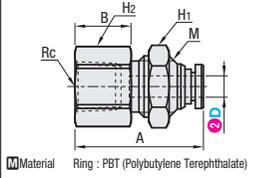
Part Number	①Type	②D	③Nominal	A	B	Wrench Flats H	Thread Size Rc	Effective Sectional Area (mm²)	Mass (g)
MSCNF	4	M5	1	24.4	11	13	Rc1/8	3.2	13.5
			2	27.4	14	17	Rc1/4	11.0	
			3	25.4	11	13	Rc1/8	14.8	
	6	M5	1	28.4	14	17	Rc1/4	11.0	26.1
			2	29.4	15	19	Rc3/8	27.6	
			3	27.7	10	13	Rc1/8	16.4	
	8	M5	1	30.7	14	17	Rc1/4	25.2	27.7
			2	31.7	15	19	Rc3/8	29.2	
			3	32.4	13	17	Rc1/4	30.3	
	10	M5	1	33.4	15	19	Rc3/8	38.7	32.5
			2	36.4	18	24	Rc1/2	53.6	
			3	35.4	12	19	Rc1/4	45.3	
12	M5	1	36.4	15	19	Rc3/8	39.4	39.4	
		2	39.4	18	24	Rc1/2	60.6		
		3	39.4	18	24	Rc1/2	60.6		

Female Threaded Bulkhead Unions



CAD 2D 3D RoHS

MSSB Threads: C3604 (Brass) : Electroless Nickel Plating



Material Ring: PBT (Polybutylene Terephthalate)

Part Number	①Type	②D	③Nominal	A	B	Wrench Flats H1	Wrench Flats H2	Thread Size MxPitch	Thread Size Rc	Effective Sectional Area (mm²)	Mass (g)
MSSB	4	M5	1	25.1	11	14	14	M12x1.0	Rc1/8	3.2	18
			2	26.3	9	17	17	M14x1.0	Rc1/8	11	26
			3	31.3	14			Rc1/4	30		
	6	M5	1	28.9	8				Rc1/8	34.5	
			2	34.9	14	19	19	M16x1.0	Rc1/4	42.5	
			3	35.9	15			Rc3/8	36		
	8	M5	1	32.3	13	24	22	M20x1.0	Rc1/4	58.5	
			2	34.3	15			Rc3/8	55		
			3	37.4	14			Rc3/8	71.5		
	12	M5	1	41.4	18	26	24	M22x1.0	Rc1/2	70.5	
			2								
			3								

Specifications

	MJCNLS	MJELLS	Other than MJCNLS, MJELLS
Applicable Fluid	Compressed Air	Water	Compressed Air
Operating Temperature Range*	-15 ~ 60°C	5 ~ 40°C	0 ~ 60°C
Max. Operating Pressure	1MPa	0.9MPa	0.9MPa
Operating Vacuum Level	-100kPa	-	-100kPa

*No Freezing

Thread part C3604 (Brass) is all electroless nickel plating applied. Seal-coated, no sealing tape required (Except for M5).

MiSUMI C-VALUE One-Touch Couplings

Similar Products Comparison Points | Threads are not electroless nickel plated. Makes it that much more economical. Not RoHS compliant.

When ordering, select Part Number and Values from Selection Steps ①~③.

Ordering Example: Part Number (①Type · ②D) - ③Thread Size Nominal

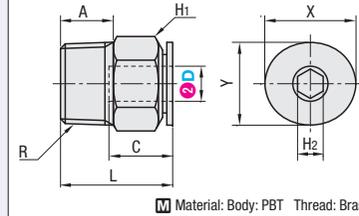
PACK-EPFH8 - 2

Male Thread Fittings (Square)



CAD 2D 3D

PACK-EPFH



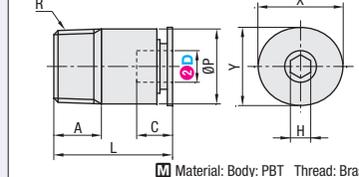
Material: Body: PBT Thread: Brass

Male Thread Fittings (Round)



CAD 2D 3D

PACK-EPFS



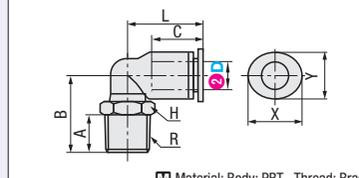
Material: Body: PBT Thread: Brass

Male Elbows



CAD 2D 3D

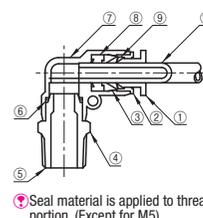
PACK-EPFL



Material: Body: PBT Thread: Brass



One-Touch Coupling Part Drawing



Seal material is applied to thread portion. (Except for M5)

No.	Name of Parts	Material
1	Release Ring	POM
2	Guide Ring	Zinc
3	Holder	POM
4	Metal Body	Brass
5	Seal Coating	PTFE
6	O-Rings	NBR
7	Resin Body	PBT
8	Elastic Sleeve	NBR
9	Lock Pawl	Stainless Steel
10	(Air Pipe)	PU / Nylon, etc.

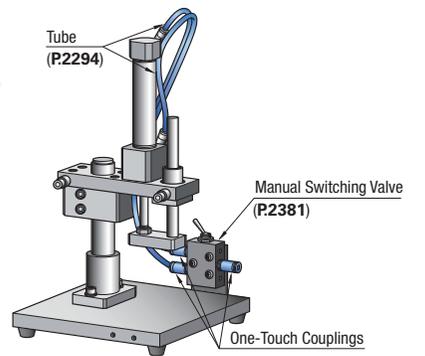
Tightening Torque Table

Thread Type	Thread Dimension (Thread Code)	Tightening Torque (kgf.cm)	(N)
Metric Thread	M5	15-19	1.4-1.8
	R1/8(1)	70-90	7-9
	R3/8(3)	220-240	22-24
Tapered Thread (R)	R1/4(2)	120-140	12-14
	R1/2(4)	280-300	27-29

*No Freezing



Simplified press fit fixture with a cylinder.



[Cautions] Products on this page are sold by the package. Refer to Qty. per Pkg. in the specification table. (Ex.) PACK-EPFH6-2 Order Quantity 1 → 10 pcs./pkg.

Precautions for Use (One-Touch Coupling, Flow Rate Controller)

- Do not apply excessive bending, tension and torsion forces to the fitting body. It may cause damages.
- When tightening the screw, refer to Tightening Torque Table shown on the left. Excessive tightening may cause leakage due to breakage of threads or deformation of gasket. Insufficient tightening may cause screw loose and leakage. (Flow Rate Controller)
- Not suitable for usage requiring complete flow rate shut-off.

One-Touch Couplings

Similar Products Comparison Points | Use for exact flow rate calculation from effective sectional area, etc. RoHS Compliant.

When ordering, select Part Number and Values from Selection Steps ①~③.

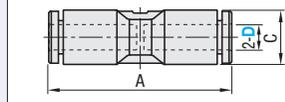
Ordering Example: Part Number (①Type · ②D/No.) - (③Body Color)
 UJDST6 - W
 USYL10

Union Straight



CAD 2D 3D RoHS

USSTL



Material PBT (Polybutylene Terephthalate)

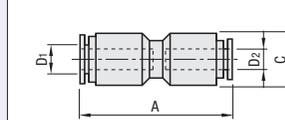
Part Number	A	C	Effective Sectional Area (mm ²)	Mass (g)
①Type ②D				
USSTL 4	30.2	9	3.2	3.1
6	32	11.2	11.0	4.8
8	40.2	13.6	25.2	8.8
10	40	16.3	38.7	10.6
12	54.8	19.7	44.6	20.9
16	52	25.6	85.0	32.8

Stepped Diameter Union Straight



CAD 2D 3D RoHS

UJDST



Material PBT (Polybutylene Terephthalate)

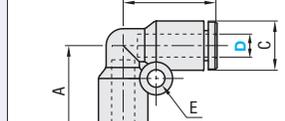
Part Number	D1	D2	A	C	Effective Sectional Area (mm ²)	Mass (g)
①Type ②No. ③Body Color						
UJDST 4	4	6	36.5	12.5	3.5	6
4-8	4	8	39.5	14.5	4	8
6	6	8	39.5	14.5	10	8
6-10	6	10	45	17.5	10	12
8	8	10	45	17.5	22	12
10	10	12	47.5	20	30	17

Union Elbows



CAD 2D 3D RoHS

USEBL



Material PBT (Polybutylene Terephthalate)

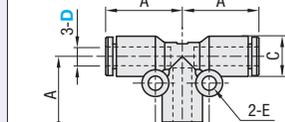
Part Number	A	C	E	Effective Sectional Area (mm ²)	Mass (g)
①Type ②D					
USEBL 4	17.1	9	3.2	3.2	3.2
6	19.0	11.2	3.2	9.3	4.9
8	23.6	13.6	3.2	20.3	9.4
10	25	16.3	4.2	27.0	11.8
12	32.2	19.7	4.2	40.6	22.5
16	34	25.6	4.2	78.7	36.5

Union Tees



CAD 2D 3D RoHS

USTEL



Material PBT (Polybutylene Terephthalate)

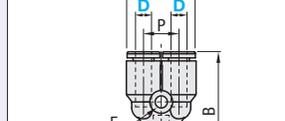
Part Number	A	C	E	N	Effective Sectional Area (mm ²)	Mass (g)
①Type ②D						
USTEL 4	17.1	9		12	3.2	5
6	19	11.2		13	10.9	7.3
8	23.6	13.6		18	24.8	14.1
10	25	16.3		24	39.5	17.7
12	32.2	19.7		28	44.2	33.5
16	34	25.6		30	83.5	53.8

Y Type



CAD 2D 3D RoHS

USYL



Material PBT (Polybutylene Terephthalate)

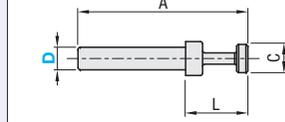
Part Number	A	B	C	E	P	Effective Sectional Area (mm ²)	Mass (g)
①Type ②D							
USYL 4	18.3	31.2	9	2.2	9.3	2.5	4.9
6	22.6	34.7	11.2		11.4	9.9	7.3
8	27.8	44.2	13.6		14.2	22.8	13.9
10	33.3	46	16.3		17	36.6	17.7
12	39.7	56.8	19.7	4.2	20	43.2	32.5

Blind Plugs



CAD 2D 3D RoHS

BSLG



Material PBT (Polybutylene Terephthalate)

Part Number	A	L	C	Mass (g)
①Type ②D				
BSLG 4	30	11	6	0.5
6	34	14	8	1
8	38	16	10	2
10	41	16	12	3
12	43	16	14	4

Specifications

Applicable Fluid	Air
Operating Temperature Range*	0 ~ 60°C
Max. Operating Pressure	0.9MPa
Operating Vacuum Level	-100kPa

* No Freezing

MiSUMI C-VALUE One-Touch Couplings

Similar Products Comparison Points | Economical type suitable when exact flow rate calculation is not required under normal conditions. Not RoHS compliant.

When ordering, select Part Number and Values from Selection Steps ①~③.

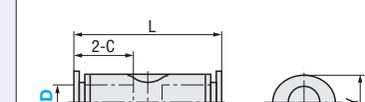
Ordering Example: Part Number (①Type · ②D/D1) - (③D2)
 PACK-EPFHU8 - 8
 PACK-EPFHU10

Union Straight



CAD 2D 3D RoHS

PACK-EPFHU



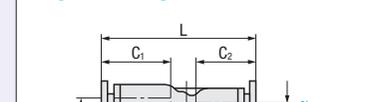
Material: Body: PBT

Stepped Diameter Union Straight



CAD 2D 3D RoHS

PACK-EPFHU D



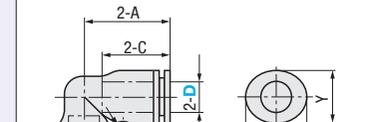
Material: Body: PBT

Unions



CAD 2D 3D RoHS

PACK-EPFLU



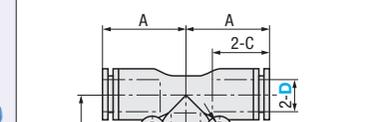
Material: Body: PBT

T Union Tees



CAD 2D 3D RoHS

PACK-EPFTU



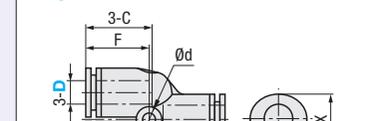
Material: Body: PBT

Union Y



CAD 2D 3D RoHS

PACK-EPFYL



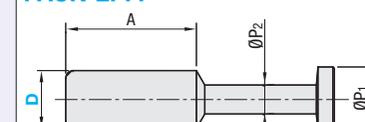
Material: Body: PBT

Blind Plugs



CAD 2D 3D RoHS

PACK-EPFP



Material: Body: PBT

[Cautions]
 Products on this page are sold by the package.
 Refer to Qty. per Pkg. in the specification table.
 (Ex.) PACK-EPFLU-10
 Order Quantity 1 → 5 pcs./pkg.

Part Number	L	C	X	Y	Qty. per Pkg.
①Type ②Applicable Tube O.D. D					
PACK-EPFHU 4	33	15	12	10	10
6	35	16	14	13	
8	39	18	16	14	5
10	47	21	20	17	
12	49	23	23	21	

Part Number	C1	C2	L	Qty. per Pkg.
①Type ②Applicable Tube O.D. D1 ③Applicable Tube O.D. D2				
PACK-EPFHU D 6	4	16	14	31
8	6	18	16	35
10	8	21	18	39
12	10	23	21	44

Part Number	A	C	X	Y	d	Qty. per Pkg.
①Type ②Applicable Tube O.D. D						
PACK-EPFLU 4	18	15	12	11	-	10
6	19	16	14	13	3.3	
8	23	18	16	14	3.3	5
10	27	21	20	17	4.3	
12	29	23	23	21	4.3	

Part Number	A	C	X	Y	d	Qty. per Pkg.
①Type ②Applicable Tube O.D. D						
PACK-EPFTU 4	19	15	12	11	3.3	10
6	19	15	14	13		
8	23	18	16	14	3.3	5
10	28	21	20	17	4.3	
12	29	23	23	21	4.3	4

Part Number	B	F	C	d	X	Y	Qty. per Pkg.
①Type ②Applicable Tube O.D. D							
PACK-EPFYL 4	36	14	15		12	11	10
6	37	15	16	3.3	14	13	
8	40	18	17	3.3	16	14	5
10	49	21	20	4.3	20	17	
12	53	21	23	4.3	23	21	

Part Number	A	L	P1	P2	Qty. per Pkg.
①Type ②Applicable Tube O.D. D					
PACK-EPFP 4	15	28	5	3	10
6	17	33	7	3	
8	18	37	9	4	
10	21	42	11	5	
12	23	44	13	6	

Specifications

Applicable Fluid	Air
Operating Pressure Range	0 ~ 1.0MPa
Pressure Resistance	1.5MPa
Operating Vacuum Level	-100kPa
Operating Temperature Range*	-20 ~ 80°C

* No Freezing

