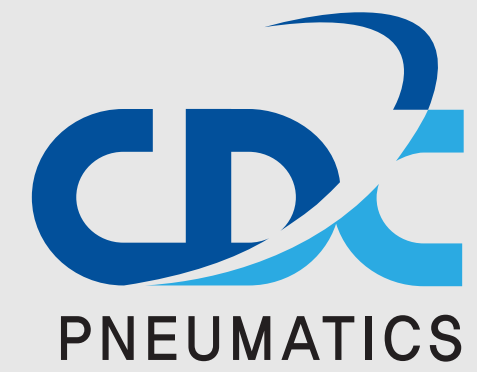




PNEUMATICS

Head Office : #1224 Chimsan1-dong, Buk-gu, Daegu, Korea TEL:+82 53 354 7501 FAX:+82 53 353 7503 <http://www.cdpneumatics.com>
Seoul Office : #410-13 Sindorim-dong, Ku-Ro-gu, (#105,109 Ansung Machinery Tool Store)Seoul, Korea TEL:82-2-2635-1225 FAX:82-2-2675-8265

Safety Caution and Classification of Warning Indications

-  **DANGER** Death or serious injury may occur.
-  **WARNING** Depending on the specific situation, death or serious injury may occur.
-  **CAUTION** Depending on the specific situation, serious/light injury or loss of property may occur.

Caution for Products in this Catalogue

DANGER

Do not use products in this catalogue in machines that have the following purposes:

- ① Maintenance of human body and life
- ② Human transportation
- ③ Instruments of critical safety

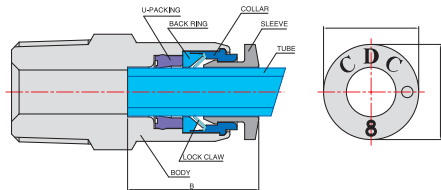
WARNING

Do not use these products in the conditions below:

- ① Uses other than those specified and in conditions indicated for the particular product.
- ② Never touch the release sleeve of one-touch fittings when they are pressurized.
(It may cause tube separation, resulting in potentially dangerous situations).
- ③ Places subject to excessive external pressure due to pulling, bending and twisting.
(It may cause body breakdown, resulting in potentially dangerous situations)
- ④ Places subject to excessive vibration, impact, rotation and bending
- ⑤ Places exposed to corrosive fluid, flammable fluid, chemicals, sea water, water and vapor

CAUTION

- ① Assemble pipes only after cleaning away impurities such as dust.
- ② The product can suffer damage or the screw may break causing quality problems when the product is assembled using excessive pressure, higher than the recommended permissible torque. If it is assembled using less pressure than the recommended torque, it may cause leakage due to the loosened screw.
- ③ Refer to the Recommended Torque Table by screw size when screwing up.
- ④ When connecting a tube to fitting products, check out the tube insertion length as indicated in Table 1 and push the tube in to the end of the fitting.



- ⑤ Do not use these products along with others than CDC Pneumatics. If products do not meet prescribed tolerances, tube separation and air leakage may occur.

Common Precaution on Fitting Products

WARNING

- ▶ Do not use them on fluids other than air and water (partly available for some products). Contact us for use on other fluids.
- ▶ Water or other fluids at temperatures of 60℃ or higher may cause hydrolysis due to the heat, and it can also deform the tube or fitting.
- ▶ Be sure to prevent pressure buildup caused by twisting, pulling, and bending of the fitting product.
- ▶ Do not use the product where weld spatters occur as fire may break out.
- ▶ Product damage or air leakage may occur at places where there is rotation and vibration. Choose the right product from our catalogue.
- ▶ Use caution in water as the product may be damaged by surge pressure.
- ▶ Do not use the product where it is directly exposed to fluids such as cutting oil, lubricating oil, and coolant oil.

CAUTION

- Assemble the pipes only after cleaning away impurities such as dust.
- Fitting products are used in connections to transport air smoothly. Avoid using them for other purposes.
- The tube release sleeve is circular so that it is not restricted by small places and limited spaces, otherwise, you may choose products from other series (such as compact fittings).
- Refer to Table 1 to make sure that tolerance of the OD of the tube is in the permissible range when using products other than CDC Pneumatics'.

[Table 1] Tolerance of the Outer Diameter of the Tube

▶ Tolerance of the OD by size (Metric)

Tube specifications	Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16
Permissible tolerance	±0.1	±0.1	±0.1	±0.1	±0.15	±0.15	±0.15	±0.15

▶ Tolerance of the OD by size (Inch)

Tube specifications	Ø1/8	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2
Permissible tolerance	±0.1	±0.1	±0.1	±0.1	±0.1	±0.15	±0.15

Recommended Connection Torque (by thread)		
Thread type	Thread Size	Recommended torque (kgf·cm)
Metric Thread (mm)	M3×P0.5	0.7 Nm
	M5×P0.8	1.5 Nm
	M6×P1.0	2.3 Nm
Pipe Taper Thread (PT)	Rc 1/8	7 Nm
	Rc 1/4	12 Nm
	Rc 3/8	22 Nm
	Rc 1/2	28 Nm
Unified Thread(UNF)	No. 10-32 UNF	1.5 Nm
NPT Thread	NPT1/16	7 Nm
	NPT1/8	7 Nm
	NPT1/4	12 Nm
	NPT3/8	22 Nm
PF Thread	NPT1/2	28 Nm
	G 1/8	10 Nm
	G 1/4	15 Nm
	G 3/8	25 Nm
	G 1/2	40 Nm

[Table 1] Tube Insertion Length

Standard fittings

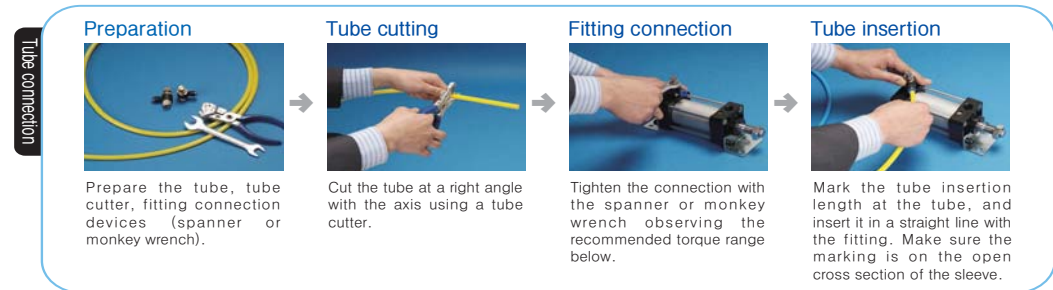
Tube Insertion Length	Standard Type							Compact Type		
	φ4	φ6	φ8	φ10	φ12	φ14	φ16	φ3	φ4	φ6
B	14.8	16.4	18.4	19.7	21.9	23.8	24.0	11.3	11.7	12.7

Inch fittings

Tube Insertion Length	Standard Type						Compact Type		
	φ5/32	φ3/16	φ1/4	φ5/16	φ3/8	φ1/2	φ1/8	φ5/32	φ1/4
B	14.8	15.8	16.9	18.5	19.6	22.7	11.3	11.7	13.0

▶ Insertion of tube to fitting product

- Make sure the tube is inserted fully to the end of the fitting.
- To insert the tube into the fitting, cut the tube at a right angle, insert it to the end and pull the tube gently to make sure it isn't released.
- If there are some damages or scratches on the oval shape and tube, air leakage and tube release may occur. Check it out meticulously.
- The OD of polyurethane tubes expands by pressure exerted on them. Reinsertion to the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.

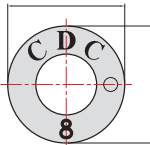


▶ Tube release from the fitting product

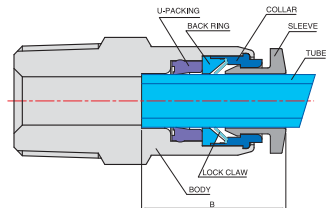
- Make sure the pressure in the tube is zero before releasing the tube from the fitting product.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.
- Cut the pressed part of the tube for reuse of the released tube.

[Table 2] Size of Sleeve for Tube Release

Standard sleeve specification (Unit/mm)										
Sleeve specification	φ4	φ6	φ8	φ10	φ12	φ14	φ16	φ3	φ4	φ6
X	9.7	11.8	13.8	16.6	19	22	25.2	7.2	8.2	10.2
Y	—	—	—	—	—	—	—	9.2	10.4	12.4



Sleeve size specification (inch) (Unit/mm)									
Sleeve specification	φ5/32	φ3/16	φ1/4	φ5/16	φ3/8	φ1/2	φ1/8	φ5/32	φ1/4
X	9.7	11.1	12.6	13.8	16.8	19.9	7.2	8.2	10.8
Y	—	—	—	—	—	—	9.2	10.4	12.8



▶ Caution during assembly

- Choose the right size devices using the hexagonal section of the fitting for assembling fitting products.
- Check out the thread type before assembly, referring to Table 3 below.

[Table 3] Fitting Screw Size (Unit/mm)						
Thread type	Metric Thread		Taper Thread			
Thread Size	M5	M6	R1/8	R1/4	R3/8	R1/2
A	4	4	8	10	11	14
A1	4.1	4.1	4	5	5.5	7

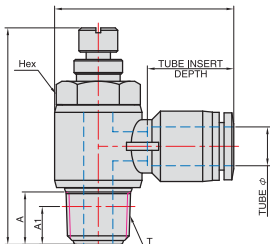
Metric Thread Specifications

Thread Code	Thread Size	Applicable product
M3	M3×0.5	Apply to all products
M5	M5×0.8	
M6	M6×1.0	

- The screw thread is produced using Teflon coating treatment so that there is no need of Teflon tape or sealing treatment.
- When the product is assembled using an excessive pressure higher than the recommended permissible torque, the product can be damaged or the screw may break causing the quality problems.

Conversion

kgf/cm ²	bar	Pa(N/m ²)	atm	mHg	lbf/in2(PSI)
1	0.980665	0.980665E5	0.9678	0.7356	14.22
1.0197	1	1E-5	0.9869	0.7501	14.50
1.0197E-5	1E-5	1	0.9869E-5	7.501E-6	1.450E-4
1.0332	1.0325	1.0325E5	1	0.760	14.70
1.3595	1.3332	1.3332E5	1.3158	1	19.34
0.07031	0.06895	6.895E3	0.06805	0.05171	1



One -Touch Fittings

Applications

- One touch type pipe connection tool for air pressure piping.
- Various uses depending on the user's environment.

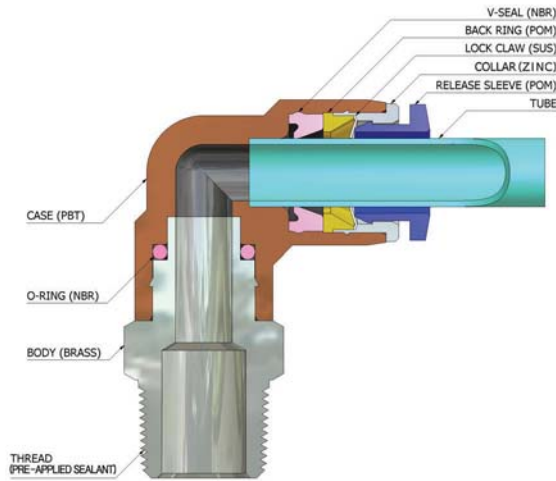
Features

- One action inserts the tube to release and connect easily.
- The PC type has interior and exterior hexagonal shapes for efficient piping in limited spaces.
- The main body of the PL and PT types is a rotating structure for efficient piping.
- The screw section has O-ring, or Teflon coated.

Specifications

- Fluid type : Air(No other gases or liquids)
- Working pressure : 0~150PSI / 0~9.9Kgf/cm²(0~990kPa)
- Negative pressure : -29.5 in Hg / -750mmHg(-750Torr)
- Working temperature : 32~140° F / 0~60° C
- Applicable Tube : Polyurethane and Nylon

Structural Diagram



Fitting Series

- One-Touch Fittings
- Compact One-Touch Fittings
- Speed Controllers
- Hand Valves
- Stop Fittings
- Check Valves
- Speed Controller with Pilot check Valves
- Two-Touch Fittings
- Two-Touch Fittings BSBM

Product Code System

METRIC - BSPT(R) PC 06-01-N

OneTouch Fitting	Tube Dia		Thread Size		Plating
	CODE	SIZE	METRIC THREAD		
	04	Ø4	CODE	SIZE	Sleeve Color Blue
	06	Ø6	M5	M5×0.8	
	08	Ø8	M6	M6×1.0	
	10	Ø10	R(PT) THREAD		
	12	Ø12	CODE	SIZE	
	14	Ø14	01	R1/8	
	16	Ø16	02	R1/4	
			03	R3/8	
			04	R1/2	

METRIC - BSPP(G) PC 06-G01

OneTouch Fitting	Tube Dia		Thread Size		Sleeve Color
	CODE	SIZE	METRIC THREAD		
	04	Ø4	CODE	SIZE	Sleeve Color Blue
	06	Ø6	M5	M5×0.8	
	08	Ø8	M6	M6×1.0	
	10	Ø10	G(PF) THREAD		
	12	Ø12	CODE	SIZE	
	14	Ø14	G01	G1/8	
	16	Ø16	G02	G1/4	
			G03	G3/8	
			G04	G1/2	

INCH - BSPT(R) PC-1/4-01

OneTouch Fitting	Tube Dia		Thread Size		Sleeve Color
	CODE	SIZE	R(PT) THREAD		
	5/32	Ø5/32	CODE	SIZE	Sleeve Color Black
	3/16	Ø3/16	01	R1/8	
	1/4	Ø1/4	02	R1/4	
	5/16	Ø5/16	03	R3/8	
	3/8	Ø3/8	04	R1/2	
	1/2	Ø1/2			

INCH - NPT PC-1/4-N1

OneTouch Fitting	Tube Dia		Thread Size		Sleeve Color
	CODE	SIZE	UNF THREAD		
	5/32	Ø5/32	CODE	SIZE	Sleeve Color Black
	3/16	Ø3/16	U	10-32UNF	
	1/4	Ø1/4	NPT THREAD		
	5/16	Ø5/16	CODE	SIZE	
	3/8	Ø3/8	N1	NPT1/8	
	1/2	Ø1/2	N2	NPT1/4	
			N3	NPT3/8	
			N4	NPT1/2	

Applied example

- The interior and exterior hexagonal part can be assembled using a spanner and hexagonal wrench in screw joining.
- The injection body of the PL and PT models rotates to allow direction changes according to piping direction.
- The sleeve is circular so that it is free of equipment setting.

CAUTION

- Be sure to refer to the Safety Caution, Classification of Warning Indications and Common Precaution of Fitting Products before use.
- Assemble the fitting according to the proper connection torque value.
- Proper torque refers to connection by hand and 2~3 rotations using a tool. Excessive pressure may damage the screw.
- To insert the tube into the fitting, cut the tube at a right angle, insert it fully to the end, and pull the tube gently to make sure it isn't released.
- Avoid piping under tension, and also avoid high curvature piping at the tube insertion section of the fitting.

WARNING

- Be sure to prevent pressure buildup due to twisting, pulling, and bending of the fitting product. This may cause product damage or air leakage.
- When the applied fluid is water, do not use the product if it does not meet all specifications. Fitting damage, tube release, and compressed air leakage may occur.

PC



MODEL(φD-T)									
Tube(Metric)-Thread(R)			Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)			Tube(Metric)-Thread(G)	
PC 04-M5	PC 08-01	PC 12-04	PC 1/4-01	PC 1/2-03	PC 5/32-U	PC 1/4-N3	PC 1/2-N2	PC 04-G01	PC 10-G02
PC 04-M6	PC 08-02	PC 14-03	PC 1/4-02	PC 1/2-04	PC 5/32-N1	PC 1/4-N4	PC 1/2-N3	PC 04-G02	PC 10-G03
PC 04-01	PC 08-03	PC 14-04	PC 1/4-03		PC 5/32-N2	PC 5/16-N1	PC 1/2-N4	PC 04-G03	PC 10-G04
PC 04-02	PC 08-04	PC 16-03	PC 5/16-01		PC 5/32-N3	PC 5/16-N2		PC 06-G01	PC 12-G02
PC 04-03	PC 10-01	PC 16-04	PC 5/16-02		PC 3/16-U	PC 5/16-N3		PC 06-G02	PC 12-G03
PC 06-M5	PC 10-02		PC 5/16-03		PC 3/16-N1	PC 5/16-N4		PC 06-G03	PC 12-G04
PC 06-M6	PC 10-03		PC 3/8-01		PC 3/16-N2	PC 3/8-N1		PC 08-G01	PC 14-G03
PC 06-01	PC 10-04		PC 3/8-02		PC 3/16-N3	PC 3/8-N2		PC 08-G02	PC 14-G04
PC 06-02	PC 12-01		PC 3/8-03		PC 1/4-U	PC 3/8-N3		PC 08-G03	PC 16-G03
PC 06-03	PC 12-02		PC 3/8-04		PC 1/4-N1	PC 3/8-N4		PC 08-G04	PC 16-G04
PC 06-04	PC 12-03		PC 1/2-02		PC 1/4-N2	PC 1/2-N1		PC 10-G01	

PC-G



PCF



MODEL(φD-T)									
Tube(Metric)-Thread(Rc)			Tube(Inch)-Thread(Rc)		Tube(Inch)-Thread(NPT)			Tube(Metric)-Thread(G)	
PCF 04-M5	PCF 08-01	PCF 12-03	PCF 1/4-01		PCF 5/32-N1	PCF 5/16-N3		PCF 04-G01	PCF 08-G04
PCF 04-01	PCF 08-02	PCF 12-04	PCF 1/4-02		PCF 5/32-N2	PCF 5/16-N4		PCF 04-G02	PCF 10-G01
PCF 04-02	PCF 08-03		PCF 5/16-01		PCF 3/16-N1	PCF 3/8-N1		PCF 04-G03	PCF 10-G02
PCF 04-03	PCF 08-04		PCF 5/16-02		PCF 3/16-N2	PCF 3/8-N2		PCF 06-G01	PCF 10-G03
PCF 06-M5	PCF 10-01		PCF 3/8-02		PCF 1/4-N1	PCF 3/8-N3		PCF 06-G02	PCF 10-G04
PCF 06-01	PCF 10-02		PCF 3/8-03		PCF 1/4-N2	PCF 3/8-N4		PCF 06-G03	PCF 12-G02
PCF 06-02	PCF 10-03				PCF 1/4-N3	PCF 1/2-N2		PCF 08-G01	PCF 12-G03
PCF 06-03	PCF 10-04				PCF 5/16-N1	PCF 1/2-N3		PCF 08-G02	PCF 12-G04
PCF 06-04	PCF 12-02				PCF 5/16-N2			PCF 08-G03	

PCF-G



POC



MODEL(φD-T)						
Tube(Metric)-Thread(R)			Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)	
POC 04-M5	POC 06-03	POC 12-01	POC1/4-01	POC5/32-U	POC5/16-N1	POC1/2-N4
POC 04-M6	POC 08-01	POC 12-02	POC1/4-02	POC5/32-N1	POC5/16-N2	
POC 04-01	POC 08-02	POC 12-03	POC5/16-01	POC5/32-N2	POC5/16-N3	
POC 04-02	POC 08-03	POC 12-04	POC5/16-02	POC3/16-U	POC3/8-N1	
POC 04-03	POC 08-04		POC3/8-02	POC3/16-N1	POC3/8-N2	
POC 06-M5	POC 10-01		POC3/8-03	POC3/16-N2	POC3/8-N3	
POC 06-M6	POC 10-02			POC1/4-U	POC3/8-N4	
POC 06-01	POC 10-03			POC1/4-N1	POC1/2-N2	
POC 06-02	POC 10-04			POC1/4-N2	POC1/2-N3	

PMM



MODEL(φD)	
Tube(Metric)	Tube(Inch)
PMM 04	PMM 5/32
PMM 06	PMM 3/16
PMM 08	PMM 1/4
PMM 10	PMM 5/16
PMM 12	PMM 3/8
PMM 16	PMM 1/2

PMP



MODEL(φD)
Tube(Metric)
PMP 04
PMP 06
PMP 08
PMP 10
PMP 12

PMF



MODEL(φD-T)					
Tube(Metric)-Thread(Rc)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PMF 04-01	PMF 08-04	PMF 5/32-N1	PMF 3/8-N3	PMF04-G01	PMF10-G02
PMF 04-02	PMF 10-01	PMF 3/16-N1	PMF 1/2-N2	PMF04-G02	PMF10-G03
PMF 04-03	PMF 10-02	PMF 3/16-N2	PMF 1/2-N3	PMF04-G03	PMF10-G04
PMF 06-01	PMF 10-03	PMF 1/4-N1	PMF 1/2-N4	PMF06-G01	PMF12-G02
PMF 06-02	PMF 10-04	PMF 1/4-N2		PMF06-G02	PMF12-G03
PMF 06-03	PMF 12-01	PMF 5/16-N1		PMF06-G03	PMF12-G04
PMF 08-01	PMF 12-02	PMF 5/16-N2		PMF08-G01	
PMF 08-02	PMF 12-03	PMF 5/16-N3		PMF08-G02	
PMF 08-03	PMF 12-04	PMF 3/8-N2		PMF08-G03	

PMF-G



PL



MODEL(φD-T)									
Tube(Metric)-Thread(R)			Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)			Tube(Metric)-Thread(G)	
PL04-M5	PL08-01	PL12-04	PL1/4-01	PL1/2-03	PL-5/32-U	PL-5/16-N1		PL04-G01	PL10-G02
PL04-M6	PL08-02	PL14-03	PL1/4-02	PL1/2-04	PL-5/32-N1	PL-5/16-N2		PL04-G02	PL10-G03
PL04-01	PL08-03	PL14-04	PL1/4-03		PL-5/32-N2	PL-5/16-N3		PL04-G03	PL10-G04
PL04-02	PL08-04	PL16-03	PL5/16-01		PL-3/16-U	PL-5/16-N4		PL06-G01	PL12-G02
PL04-03	PL10-01	PL16-04	PL5/16-02		PL-3/16-N1	PL-3/8-N1		PL06-G02	PL12-G03
PL06-M5	PL10-02		PL5/16-03		PL-3/16-N2	PL-3/8-N2		PL06-G03	PL12-G04
PL06-M6	PL10-03		PL3/8-01		PL-3/16-N3	PL-3/8-N3		PL08-G01	PL14-G03
PL06-01	PL10-04		PL3/8-02		PL-1/4-U	PL-3/8-N4		PL08-G02	PL14-G04
PL06-02	PL12-01		PL3/8-03		PL-1/4-N1	PL-1/2-N2		PL08-G03	PL16-G03
PL06-03	PL12-02		PL3/8-04		PL-1/4-N2	PL-1/2-N3		PL08-G04	PL16-G04
PL06-04	PL12-03		PL1/2-02		PL-1/4-N3	PL-1/2-N4		PL10-G01	

PL-G



PLF



MODEL(φD-T)					
Tube(Metric)-Thread(Rc)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PLF 04-M5	PLF 08-02	PLF-5/32-U	PLF-5/16-N2	PLF 04-G01	PLF 10-G03
PLF 04-M6	PLF 08-03	PLF-5/32-N1	PLF-5/16-N3	PLF 04-G02	PLF 10-G04
PLF 04-01	PLF 08-04	PLF-5/32-N2	PLF-3/8-N2	PLF 06-G01	PLF 12-G02
PLF 04-02	PLF 10-01	PLF-3/16-U	PLF-3/8-N3	PLF 06-G02	PLF 12-G03
PLF 06-M5	PLF 10-02	PLF-3/16-N1	PLF-3/8-N4	PLF 06-G03	PLF 12-G04
PLF 06-M6	PLF 10-03	PLF-3/16-N2	PLF-1/2-N3	PLF 08-G01	
PLF 06-01	PLF 10-04	PLF-1/4-U	PLF-1/2-N4	PLF 08-G02	
PLF 06-02	PLF 12-02	PLF-1/4-N1		PLF 08-G03	
PLF 06-03	PLF 12-03	PLF-1/4-N2		PLF 08-G04	
PLF 06-04	PLF 12-04	PLF-1/4-N3		PLF 10-G01	
PLF 08-01		PLF-5/16-N1		PLF 10-G02	

PLF-G



PLL



MODEL(ΦD-T)							
Tube(Metric)-Thread(R)			Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PLL 04-M5	PLL 06-04	PLL 12-02	PLL1/4-01	PLL-5/32-U	PLL-1/4-N3	PLL04-G01	PLL08-G04
PLL 04-M6	PLL 08-01	PLL 12-03	PLL1/4-02	PLL-5/32-N1	PLL-5/16-N1	PLL04-G02	PLL10-G01
PLL 04-01	PLL 08-02	PLL 12-04	PLL5/16-01	PLL-5/32-N2	PLL-5/16-N2	PLL04-G03	PLL10-G02
PLL 04-02	PLL 08-03		PLL5/16-02	PLL-3/16-U	PLL-5/16-N3	PLL06-G01	PLL10-G03
PLL 04-03	PLL 08-04		PLL3/8-02	PLL-3/16-N1	PLL-3/8-N2	PLL06-G02	PLL10-G04
PLL 06-M5	PLL 10-01		PLL3/8-03	PLL-3/16-N2	PLL-3/8-N3	PLL06-G03	PLL12-G02
PLL 06-M6	PLL 10-02			PLL-3/16-N3	PLL-3/8-N4	PLL08-G01	PLL12-G03
PLL 06-01	PLL 10-03			PLL-1/4-U	PLL-1/2-N2	PLL08-G02	PLL12-G04
PLL 06-02	PLL 10-04			PLL-1/4-N1	PLL-1/2-N3	PLL08-G03	
PLL 06-03	PLL 12-01			PLL-1/4-N2	PLL-1/2-N4		

PLL-G



PLL-P



MODEL(φD-T)					
Tube(Metric)-Thread(R)			Tube(Metric)-Thread(G)		
PLL-P 04-M5	PLL-P 06-04	PLL-P 12-02	PLL-P 04-G01	PLL-P 10-G01	
PLL-P 04-M6	PLL-P 08-01	PLL-P 12-03	PLL-P 04-G02	PLL-P 10-G02	
PLL-P 04-01	PLL-P 08-02	PLL-P 12-04	PLL-P 04-G03	PLL-P 10-G03	
PLL-P 04-02	PLL-P 08-03		PLL-P 06-G01	PLL-P 10-G04	
PLL-P 04-03	PLL-P 08-04		PLL-P 06-G02	PLL-P 12-G02	
PLL-P 06-M5	PLL-P 10-01		PLL-P 06-G03	PLL-P 12-G03	
PLL-P 06-M6	PLL-P 10-02		PLL-P 08-G01	PLL-P 12-G04	
PLL-P 06-01	PLL-P 10-03		PLL-P 08-G02		
PLL-P 06-02	PLL-P 10-04		PLL-P 08-G03		
PLL-P 06-03	PLL-P 12-01		PLL-P 08-G04		

PLL-P-G



PT

Male Branch Tee



Swivel Rotating Type

MODEL(ΦD-T)										
Tube(Metric)-Thread(R)			Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)			Tube(Metric)-Thread(G)		
PT 04-M5	PT 06-04	PT 12-02	PT1/4-01	PT1/2-02	PT5/32-U	PT1/4-N3	PT1/2-N3	PT04-G01	PT10-G01	
PT 04-M6	PT 08-01	PT 12-03	PT1/4-02	PT1/2-03	PT5/32-N1	PT5/16-N1	PT1/2-N4	PT04-G02	PT10-G02	
PT 04-01	PT 08-02	PT 12-04	PT1/4-03	PT1/2-04	PT5/32-N2	PT5/16-N2		PT04-G03	PT10-G03	
PT 04-02	PT 08-03	PT 16-03	PT5/16-01		PT3/16-U	PT5/16-N3		PT06-G01	PT10-G04	
PT 04-03	PT 08-04	PT 16-04	PT5/16-02		PT3/16-N1	PT5/16-N4		PT06-G02	PT12-G02	
PT 06-M5	PT 10-01		PT5/16-03		PT3/16-N2	PT3/8-N1		PT06-G03	PT12-G03	
PT 06-M6	PT 10-02		PT3/8-01		PT3/16-N3	PT3/8-N2		PT08-G01	PT12-G04	
PT 06-01	PT 10-03		PT3/8-02		PT1/4-U	PT3/8-N3		PT08-G02	PT16-G03	
PT 06-02	PT 10-04		PT3/8-03		PT1/4-N1	PT3/8-N4		PT08-G03	PT16-G04	
PT 06-03	PT 12-01		PT3/8-04		PT1/4-N2	PT1/2-N2		PT08-G04		

PT-G

Male Branch Tee



Swivel Rotating Type

PTF

Female Branch Tee



Swivel Rotating Type

MODEL(ΦD-T)					
Tube(Metric)-Thread(Rc)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PTF 04-M5	PTF 08-02	PTF5/32-U	PTF5/16-N1	PTF04-G01	PTF10-G02
PTF 04-M6	PTF 08-03	PTF5/32-N1	PTF5/16-N2	PTF04-G02	PTF10-G03
PTF 04-01	PTF 08-04	PTF5/32-N2	PTF5/16-N3	PTF06-G01	PTF10-G04
PTF 04-02	PTF 10-01	PTF3/16-U	PTF3/8-N2	PTF06-G02	PTF12-G02
PTF 06-M5	PTF 10-02	PTF3/16-N1	PTF3/8-N3	PTF06-G03	PTF12-G03
PTF 06-M6	PTF 10-03	PTF3/16-N2	PTF3/8-N4	PTF08-G01	PTF12-G04
PTF 06-01	PTF 10-04	PTF1/4-U	PTF1/2-N3	PTF08-G02	
PTF 06-02	PTF 12-02	PTF1/4-N1	PTF1/2-N4	PTF08-G03	
PTF 06-03	PTF 12-03	PTF1/4-N2		PTF08-G04	
PTF 08-01	PTF 12-04	PTF1/4-N3		PTF10-G01	

PTF-G

Female Branch Tee



Swivel Rotating Type

PST

Male Run Tee



Swivel Rotating Type

MODEL(ΦD-T)						
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PST 04-M5	PST 08-02	PST1/4-01	PST5/32-U	PST5/16-N2	PST 04-G01	PST 10-G03
PST 04-M6	PST 08-03	PST1/4-02	PST5/32-N1	PST5/16-N3	PST 04-G02	PST 10-G04
PST 04-01	PST 08-04	PST1/4-03	PST5/32-N2	PST5/16-N4	PST 04-G03	PST 12-G02
PST 04-02	PST 10-01	PST5/16-01	PST3/16-U	PST3/8-N1	PST 06-G01	PST 12-G03
PST 04-03	PST 10-02	PST5/16-02	PST3/16-N1	PST3/8-N2	PST 06-G02	PST 12-G04
PST 06-M5	PST 10-03	PST5/16-03	PST3/16-N2	PST3/8-N3	PST 06-G03	
PST 06-M6	PST 10-04	PST3/8-02	PST3/16-N3	PST3/8-N4	PST 08-G01	
PST 06-01	PST 12-01	PST3/8-03	PST1/4-U	PST1/2-N2	PST 08-G02	
PST 06-02	PST 12-02	PST3/8-04	PST1/4-N1	PST1/2-N3	PST 08-G03	
PST 06-03	PST 12-03	PST1/2-02	PST1/4-N2	PST1/2-N4	PST 08-G04	
PST 06-04	PST 12-04	PST1/2-03	PST1/4-N3		PST 10-G01	
PST 08-01		PST1/2-04	PST5/16-N1		PST 10-G02	

PST-G

Male Run Tee



Swivel Rotating Type

PWT

Male Y



Swivel Rotating Type

MODEL(ΦD-T)						
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PWT 04-M5	PWT 08-02	PWT1/4-01	PWT5/32-U	PWT5/16-N2	PWT04-G01	PWT10-G02
PWT 04-M6	PWT 08-03	PWT1/4-02	PWT5/32-N1	PWT5/16-N3	PWT04-G02	PWT10-G03
PWT 04-01	PWT 08-04	PWT1/4-03	PWT5/32-N2	PWT5/16-N4	PWT04-G03	PWT10-G04
PWT 04-02	PWT 10-01	PWT5/16-01	PWT3/16-U	PWT3/8-N1	PWT06-G01	PWT12-G02
PWT 04-03	PWT 10-02	PWT5/16-02	PWT3/16-N1	PWT3/8-N2	PWT06-G02	PWT12-G03
PWT 06-M5	PWT 10-03	PWT5/16-03	PWT3/16-N2	PWT3/8-N3	PWT06-G03	PWT12-G04
PWT 06-M6	PWT 10-04	PWT3/8-02	PWT3/16-N3	PWT3/8-N4	PWT06-G04	
PWT 06-01	PWT 12-01	PWT3/8-03	PWT1/4-U	PWT1/2-N2	PWT08-G01	
PWT 06-02	PWT 12-02	PWT3/8-04	PWT1/4-N1	PWT1/2-N3	PWT08-G02	
PWT 06-03	PWT 12-03	PWT1/2-02	PWT1/4-N2	PWT1/2-N4	PWT08-G03	
PWT 06-04	PWT 12-04	PWT1/2-03	PWT1/4-N3		PWT08-G04	
PWT 08-01		PWT1/2-04	PWT5/16-N1		PWT10-G01	

PWT-G

Male Y



Swivel Rotating Type

PLM

Bulkhead Union Elbow



MODEL(ΦD)	
Tube(Metric)	Tube(Inch)
PLM 04	PLM 5/32
PLM 06	PLM 3/16
PLM 08	PLM 1/4
PLM 10	PLM 5/16
PLM 12	PLM 3/8
	PLM 1/2

PXT

Male Double Y



MODEL(ΦD-T)	
Tube(Metric)-Thread(R)	Tube(Metric)-Thread(G)
PXT 04-01	PXT 04-G01
PXT 04-02	PXT 04-G02
PXT 06-01	PXT 06-G01
PXT 06-02	PXT 06-G02

PXT-G

Male Double Y



PKD

Male Reducer Triple Branch



Swivel Rotating Type

MODEL(ΦD1-ΦD2-T)		
Tube(Metric)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)
PKD 0604-01	PKD 3/16-5/32-N1	PKD 0604-G01
PKD 0604-02	PKD 1/4-5/32-N1	PKD 0804-G01
PKD 0804-01	PKD 5/16-5/32-N2	PKD 0804-G02
PKD 0804-02	PKD 5/16-3/16-N2	PKD 0806-G01
PKD 0806-01	PKD 5/16-1/4-N2	PKD 0806-G02
PKD 0806-02	PKD 3/8-1/4-N3	PKD 1006-G02
PKD 1006-02	PKD 3/8-5/16-N3	PKD 1006-G03
PKD 1006-03		PKD 1008-G02
PKD 1008-02		PKD 1008-G03
PKD 1008-03		

PKD-G

Male Reducer Triple Branch



Swivel Rotating Type

CAS

Male Reducer Triple Branch



MODEL(ΦD)	
Tube(Metric)	Tube(Inch)
CAS 04	CAS 5/32
CAS 06	CAS 3/16
CAS 08	CAS 1/4
CAS 10	CAS 5/16
CAS 12	CAS 3/8
	CAS 1/2

PH

Male Banjo



Swivel Rotating Type

MODEL(ΦD-T)						
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PH 03-M5	PH 08-01	PH1/4-M5	PH 1/8-U	PH 1/4-N3	PH 04-G01	PH 10-G04
PH 04-M5	PH 08-02	PH1/4-01	PH 5/32-U	PH 5/16-N1	PH 04-G02	PH 12-G03
PH 04-M6	PH 08-03	PH1/4-02	PH 5/32-N1	PH 5/16-N2	PH 06-G01	PH 12-G04
PH 04-01	PH 08-04	PH5/16-01	PH 5/32-N2	PH 5/16-N3	PH 06-G02	
PH 04-02	PH 10-01	PH5/16-02	PH 3/16-U	PH 5/16-N4	PH 06-G03	
PH 06-M5	PH 10-02	PH5/16-03	PH 3/16-N1	PH 3/8-N2	PH 08-G01	
PH 06-M6	PH 10-03	PH3/8-02	PH 3/16-N2	PH 3/8-N3	PH 08-G02	
PH 06-01	PH 10-04	PH3/8-03	PH 3/16-N3	PH 3/8-N4	PH 08-G03	
PH 06-02	PH 12-02		PH 1/4-U	PH 1/2-N2	PH 08-G04	
PH 06-03	PH 12-03		PH 1/4-N1	PH 1/2-N3	PH 10-G02	
PH 06-04	PH 12-04		PH 1/4-N2	PH 1/2-N4	PH 10-G03	

PH-G

Male Banjo



Swivel Rotating Type

PHF

Female Banjo



Swivel Rotating Type

MODEL(ΦD-T)						
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PHF 03-M5	PHF 08-01	PHF 1/4-M5	PHF 1/8-U	PHF 5/16-N1	PHF 04-G01	PHF 08-G04
PHF 04-M5	PHF 08-02	PHF 1/4-01	PHF 5/32-U	PHF 5/16-N2	PHF 04-G02	PHF 10-G01
PHF 04-M6	PHF 08-03	PHF 1/4-02	PHF 5/32-N1	PHF 5/16-N3	PHF 04-G03	PHF 10-G02
PHF 04-01	PHF 08-04	PHF 5/16-01	PHF 3/16-U	PHF 5/16-N4	PHF 04-G04	PHF 10-G03
PHF 04-02	PHF 10-01	PHF 5/16-02	PHF 3/16-N1	PHF 3/8-N2	PHF 06-G01	PHF 10-G04
PHF 06-M5	PHF 10-02	PHF 5/16-03	PHF 3/16-N2	PHF 3/8-N3	PHF 06-G02	PHF 12-G02
PHF 06-M6	PHF 10-03	PHF 3/8-02	PHF 3/16-N3	PHF 3/8-N4	PHF 06-G03	PHF 12-G03
PHF 06-01	PHF 10-04	PHF 3/8-03	PHF 1/4-U	PHF1/2-N2	PHF 06-G04	PHF 12-G04
PHF 06-02	PHF 12-02		PHF 1/4-N1	PHF1/2-N3	PHF 08-G01	
PHF 06-03	PHF 12-03		PHF 1/4-N2	PHF1/2-N4	PHF 08-G02	
PHF 06-04	PHF 12-04		PHF 1/4-N3		PHF 08-G03	

PHF-G

Female Banjo



Swivel Rotating Type

PHL(2)

Double Universal Elbow



MODEL(ΦD-T)			
Tube(Metric)-Thread(R)		Tube(Metric)-Thread(G)	
PHL 04-01(2)	PHL 08-03(2)	PHL 04-G01(2)	PHL 08-G03(2)
PHL 04-02(2)	PHL 08-04(2)	PHL 04-G02(2)	PHL 08-G04(2)
PHL 04-03(2)	PHL 10-01(2)	PHL 04-G03(2)	PHL 10-G01(2)
PHL 04-04(2)	PHL 10-02(2)	PHL 04-G04(2)	PHL 10-G02(2)
PHL 06-01(2)	PHL 10-03(2)	PHL 06-G01(2)	PHL 10-G03(2)
PHL 06-02(2)	PHL 10-04(2)	PHL 06-G02(2)	PHL 10-G04(2)
PHL 06-03(2)	PHL 12-02(2)	PHL 06-G03(2)	PHL 12-G02(2)
PHL 06-04(2)	PHL 12-03(2)	PHL 06-G04(2)	PHL 12-G03(2)
PHL 08-01(2)	PHL 12-04(2)	PHL 08-G01(2)	PHL 12-G04(2)
PHL 08-02(2)		PHL 08-G02(2)	

PHL-G(2)

Double Universal Elbow



PHL(3)



MODEL(φD-T)			
Tube(Metric)-Thread(R)		Tube(Metric)-Thread(G)	
PHL 04-01(3)	PHL 08-03(3)	PHL 04-G01(3)	PHL 08-G03(3)
PHL 04-02(3)	PHL 08-04(3)	PHL 04-G02(3)	PHL 08-G04(3)
PHL 04-03(3)	PHL 10-01(3)	PHL 04-G03(3)	PHL 10-G01(3)
PHL 04-04(3)	PHL 10-02(3)	PHL 04-G04(3)	PHL 10-G02(3)
PHL 06-01(3)	PHL 10-03(3)	PHL 06-G01(3)	PHL 10-G03(3)
PHL 06-02(3)	PHL 10-04(3)	PHL 06-G02(3)	PHL 10-G04(3)
PHL 06-03(3)	PHL 12-02(3)	PHL 06-G03(3)	PHL 12-G02(3)
PHL 06-04(3)	PHL 12-03(3)	PHL 06-G04(3)	PHL 12-G03(3)
PHL 08-01(3)	PHL 12-04(3)	PHL 08-G01(3)	PHL 12-G04(3)
PHL 08-02(3)		PHL 08-G02(3)	

PHL-G(3)



PHT(1)



MODEL(φD-T)			
Tube(Metric)-Thread(R)		Tube(Metric)-Thread(G)	
PHT 04-01(1)	PHT 08-03(1)	PHT 04-G01(1)	PHT 08-G03(1)
PHT 04-02(1)	PHT 08-04(1)	PHT 04-G02(1)	PHT 08-G04(1)
PHT 04-03(1)	PHT 10-01(1)	PHT 04-G03(1)	PHT 10-G01(1)
PHT 04-04(1)	PHT 10-02(1)	PHT 04-G04(1)	PHT 10-G02(1)
PHT 06-01(1)	PHT 10-03(1)	PHT 06-G01(1)	PHT 10-G03(1)
PHT 06-02(1)	PHT 10-04(1)	PHT 06-G02(1)	PHT 10-G04(1)
PHT 06-03(1)	PHT 12-02(1)	PHT 06-G03(1)	PHT 12-G02(1)
PHT 06-04(1)	PHT 12-03(1)	PHT 06-G04(1)	PHT 12-G03(1)
PHT 08-01(1)	PHT 12-04(1)	PHT 08-G01(1)	PHT 12-G04(1)
PHT 08-02(1)		PHT 08-G02(1)	

PHT-G(1)



PHT(2)



MODEL(φD-T)			
Tube(Metric)-Thread(R)		Tube(Metric)-Thread(G)	
PHT 04-01(2)	PHT08-03(2)	PHT 04-G01(2)	PHT 08-G03(2)
PHT 04-02(2)	PHT08-04(2)	PHT 04-G02(2)	PHT 08-G04(2)
PHT 04-03(2)	PHT10-01(2)	PHT 04-G03(2)	PHT 10-G01(2)
PHT 04-04(2)	PHT10-02(2)	PHT 04-G04(2)	PHT 10-G02(2)
PHT 06-01(2)	PHT10-03(2)	PHT 06-G01(2)	PHT 10-G03(2)
PHT 06-02(2)	PHT10-04(2)	PHT 06-G02(2)	PHT 10-G04(2)
PHT 06-03(2)	PHT12-02(2)	PHT 06-G03(2)	PHT 12-G02(2)
PHT 06-04(2)	PHT12-03(2)	PHT 06-G04(2)	PHT 12-G03(2)
PHT 08-01(2)	PHT12-04(2)	PHT 08-G01(2)	PHT 12-G04(2)
PHT 08-02(2)		PHT 08-G02(2)	

PHT-G(2)



PHT(3)

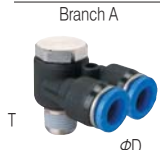


MODEL(φD-T)			
Tube(Metric)-Thread(R)		Tube(Metric)-Thread(G)	
PHT 04-01(3)	PHT08-03(3)	PHT 04-G01(3)	PHT 08-G03(3)
PHT 04-02(3)	PHT08-04(3)	PHT 04-G02(3)	PHT 08-G04(3)
PHT 04-03(3)	PHT10-01(3)	PHT 04-G03(3)	PHT 10-G01(3)
PHT 04-04(3)	PHT10-02(3)	PHT 04-G04(3)	PHT 10-G02(3)
PHT 06-01(3)	PHT10-03(3)	PHT 06-G01(3)	PHT 10-G03(3)
PHT 06-02(3)	PHT10-04(3)	PHT 06-G02(3)	PHT 10-G04(3)
PHT 06-03(3)	PHT12-02(3)	PHT 06-G03(3)	PHT 12-G02(3)
PHT 06-04(3)	PHT12-03(3)	PHT 06-G04(3)	PHT 12-G03(3)
PHT 08-01(3)	PHT12-04(3)	PHT 08-G01(3)	PHT 12-G04(3)
PHT 08-02(3)		PHT 08-G02(3)	

PHT-G(3)



PA



MODEL(φD-T)	
Tube(Metric)-Thread(R)	Tube(Metric)-Thread(G)
PA 04-M5	PA 06-G01
PA 06-01	PA 08-G02
PA 08-02	PA 10-G02
PA 10-02	PA 10-G03
PA 10-03	PA 12-G03
PA 12-03	PA 12-G04
PA 12-04	

PA-G



PAF



MODEL(φD-T)	
Tube(Metric)-Thread(R)	Tube(Metric)-Thread(G)
PAF 04-M5	PAF 06-G01
PAF 06-01	PAF 08-G02
PAF 08-02	PAF 10-G02
PAF 10-02	PAF 10-G03
PAF 10-03	PAF 12-G03
PAF 12-03	PAF 12-G04
PAF 12-04	

PAF-G



PAT(2)



MODEL(φD-T)			
Tube(Metric)-Thread(R)		Tube(Metric)-Thread(G)	
PAT 04-01(2)	PAT 08-03(2)	PAT 04-G01(2)	PAT 08-G03(2)
PAT 04-02(2)	PAT 08-04(2)	PAT 04-G02(2)	PAT 08-G04(2)
PAT 04-03(2)	PAT 10-01(2)	PAT 04-G03(2)	PAT 10-G01(2)
PAT 04-04(2)	PAT 10-02(2)	PAT 04-G04(2)	PAT 10-G02(2)
PAT 06-01(2)	PAT 10-03(2)	PAT 06-G01(2)	PAT 10-G03(2)
PAT 06-02(2)	PAT 10-04(2)	PAT 06-G02(2)	PAT 10-G04(2)
PAT 06-03(2)	PAT 12-02(2)	PAT 06-G03(2)	PAT 12-G02(2)
PAT 06-04(2)	PAT 12-03(2)	PAT 06-G04(2)	PAT 12-G03(2)
PAT 08-01(2)	PAT 12-04(2)	PAT 08-G01(2)	PAT 12-G04(2)
PAT 08-02(2)		PAT 08-G02(2)	

PAT-G(2)



PAT(3)



MODEL(φD-T)			
Tube(Metric)-Thread(R)		Tube(Metric)-Thread(G)	
PAT 04-01(3)	PAT 08-03(3)	PAT 04-G01(3)	PAT 08-G03(3)
PAT 04-02(3)	PAT 08-04(3)	PAT 04-G02(3)	PAT 08-G04(3)
PAT 04-03(3)	PAT 10-01(3)	PAT 04-G03(3)	PAT 10-G01(3)
PAT 04-04(3)	PAT 10-02(3)	PAT 04-G04(3)	PAT 10-G02(3)
PAT 06-01(3)	PAT 10-03(3)	PAT 06-G01(3)	PAT 10-G03(3)
PAT 06-02(3)	PAT 10-04(3)	PAT 06-G02(3)	PAT 10-G04(3)
PAT 06-03(3)	PAT 12-02(3)	PAT 06-G03(3)	PAT 12-G02(3)
PAT 06-04(3)	PAT 12-03(3)	PAT 06-G04(3)	PAT 12-G03(3)
PAT 08-01(3)	PAT 12-04(3)	PAT 08-G01(3)	PAT 12-G04(3)
PAT 08-02(3)		PAT 08-G02(3)	

PAT-G(3)



PUC



MODEL(φD)	
Tube(Metric)	Tube(Inch)
PUC 04	PUC5/32
PUC 06	PUC3/16
PUC 08	PUC1/4
PUC 10	PUC5/16
PUC 12	PUC3/8
PUC 14	PUC1/2
PUC 16	

PUL



MODEL(φD)	
Tube(Metric)	Tube(Inch)
PUL 04	PUL5/32
PUL 06	PUL3/16
PUL 08	PUL1/4
PUL 10	PUL5/16
PUL 12	PUL3/8
PUL 14	PUL1/2
PUL 16	

PUT



MODEL(φD)	
Tube(Metric)	Tube(Inch)
PUT 04	PUT5/32
PUT 06	PUT3/16
PUT 08	PUT1/4
PUT 10	PUT5/16
PUT 12	PUT3/8
PUT 14	PUT1/2
PUT 16	

PY



MODEL(φD)	
Tube(Metric)	Tube(Inch)
PY 04	PY5/32
PY 06	PY3/16
PY 08	PY1/4
PY 10	PY5/16
PY 12	PY3/8
PY 16	PY1/2

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PW 0604	PW3/16-5/32
	PW 0804	PW1/4-5/32
	PW 0806	PW1/4-3/16
	PW 1006	PW5/16-5/32
	PW 1008	PW5/16-1/4
	PW 1208	PW3/8-1/4
	PW 1210	PW3/8-5/16
		PW1/2-5/16
		PW1/2-3/8

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PG 0604	PG 3/16-5/32
	PG 0804	PG 1/4-5/32
	PG 0806	PG 1/4-3/16
	PG 1006	PG 5/16-5/32
	PG 1008	PG 5/16-1/4
	PG 1208	PG 3/8-1/4
	PG 1210	PG 3/8-5/16
	PG 1412	PG 1/2-3/8
	PG 1612	

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PGT 0604	PGT1/4-5/32
	PGT 0804	PGT5/16-1/4
	PGT 0806	PGT3/8-1/4
	PGT 1006	PGT3/8-5/16
	PGT 1008	PGT1/2-3/8
	PGT 1208	
	PGT 1210	
	PGT 1610	
	PGT 1612	

	MODEL(φD)	
	Tube(Metric)	Tube(Inch)
	PLJ 04	PLJ 5/32
	PLJ 06	PLJ 3/16
	PLJ 08	PLJ 1/4
	PLJ 10	PLJ 5/16
	PLJ 12	PLJ 3/8
	PLJ 16	PLJ 1/2
	PLJ 0604	PLJ 1/4-5/32
	PLJ 0806	PLJ 5/16-1/4
	PLJ 1008	PLJ 3/8-1/4
	PLJ 1210	PLJ 3/8-5/16

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PGJ 0604	PGJ 1/8-1/4
	PGJ 0804	PGJ 5/32-1/8
	PGJ 0806	PGJ 5/32-1/4
	PGJ 1006	PGJ 1/4-1/8
	PGJ 1008	PGJ 1/4-5/32
	PGJ 1206	PGJ 5/16-5/32
	PGJ 1208	PGJ 5/16-1/4
	PGJ 1210	PGJ 3/8-1/4
	PGJ 1612	PGJ 3/8-5/16
		PGJ 1/2-1/4
		PGJ 1/2-5/16
		PGJ 1/2-3/8

	MODEL(φD)	
	Tube(Metric)	Tube(Inch)
	PYJ 04	PYJ5/32
	PYJ 06	PYJ3/16
	PYJ 08	PYJ1/4
	PYJ 10	PYJ5/16
	PYJ 12	PYJ3/8
		PYJ1/2

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PWJ 0604	PWJ1/4-5/32
	PWJ 0806	PWJ5/16-1/4
	PWJ 1008	PWJ3/8-1/4
	PWJ 1210	PWJ3/8-5/16

	MODEL(φD)	
	Tube(Metric)	Tube(Inch)
	PCP 04	PCP 5/32
	PCP 06	PCP 3/16
	PCP 08	PCP 1/4
	PCP 10	PCP 5/16
	PCP 12	PCP 3/8
	PCP 16	PCP 1/2

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PSJ 04	PSJ5/32
	PSJ 06	PSJ3/16
	PSJ 08	PSJ1/4
	PSJ 10	PSJ5/16
	PSJ 12	PSJ3/8
	PSJ 0604	PSJ1/2
	PSJ 0806	PSJ1/4-5/32
	PSJ 1008	PSJ5/16-1/4
	PSJ 1210	PSJ3/8-1/4
		PSJ3/8-5/16
		PSJ1/2-3/8

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PTJ 04	PTJ5/32
	PTJ 06	PTJ3/16
	PTJ 08	PTJ1/4
	PTJ 10	PTJ5/16
	PTJ 12	PTJ3/8
	PTJ 0604	PTJ1/2
	PTJ 0806	PTJ1/4-5/32
	PTJ 1008	PTJ5/16-1/4
	PTJ 1210	PTJ3/8-1/4
		PTJ3/8-5/16
		PTJ1/2-3/8

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PIG 0604	PIG 3/16-5/32
	PIG 0804	PIG 1/4-5/32
	PIG 0806	PIG 1/4-3/16
	PIG 1006	PIG 5/16-1/4
	PIG 1008	PIG 3/8-1/4
	PIG 1208	PIG 3/8-5/16
	PIG 1210	PIG 1/2-3/8
	PIG 1612	

	MODEL(φD)	
	Tube(Metric)	Tube(Inch)
	PP 04	PP 5/32
	PP 06	PP 3/16
	PP 08	PP 1/4
	PP 10	PP 5/16
	PP 12	PP 3/8
	PP 16	PP 1/2

	MODEL(φD)	
	Tube(Metric)	Tube(Inch)
	PPF 04	PPF5/32
	PPF 06	PPF3/16
	PPF 08	PPF1/4
	PPF 10	PPF5/16
	PPF 12	PPF3/8
	PPF 16	PPF1/2

	MODEL(φD)	
	Tube(Metric)	Tube(Inch)
	PZA 04	PZA5/32
	PZA 06	PZA3/16
	PZA 08	PZA1/4
	PZA 10	PZA5/16
	PZA 12	PZA3/8
		PZA1/2

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PKG 0604	PKG 3/16-5/32
	PKG 0804	PKG 1/4-5/32
	PKG 0806	PKG 5/16-5/32
	PKG 1006	PKG 5/16-3/16
	PKG 1008	PKG 5/16-1/4
		PKG 3/8-1/4
		PKG 3/8-5/16

	MODEL(φD1-φD2)	
	Tube(Metric)	
	PXG 06 04	
	PXG 08 06	

	MODEL(φD1-φD2)	
	Tube(Metric)	
	PXJ 06 04	
	PXJ 08 06	

	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
	PKJ 0604	PKJ 3/16-5/32
	PKJ 0804	PKJ 1/4-5/32
	PKJ 0806	PKJ 5/16-5/32
	PKJ 1006	PKJ 5/16-3/16
	PKJ 1008	PKJ 5/16-1/4
		PKJ 3/8-1/4
		PKJ 3/8-5/16

Compact One - Touch Fittings

Applications

- Mini one touch type pipe connection tool for air pressure piping in limited spaces.
- Various uses according to the user’s environment.

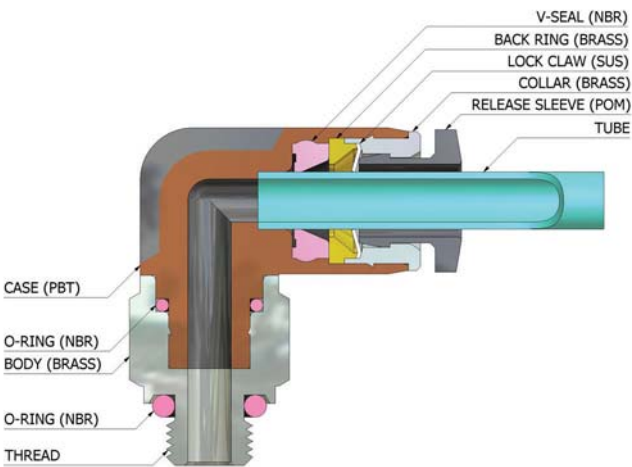
Features

- One action can insert the tube to easy connection and release.
- Volume and OD are smaller than the regular type, but same flux is obtained.
- Treated with electroless nickel coating on the surface for excellent tolerance to corrosion.
- Oval sleeve is designed to allow easy release in the limited space.
- The screw section has O-ring, or Teflon coated.
- Miniaturized fitting for small devices and piping in limited spaces.

Specifications

Fluid type : Air(No other gases or liquids)
Working pressure : 0~150PSI / 0~9.9Kgf/cm²(0~990kPa)
Negative pressure : -29.5 in Hg / -750mmHg(-750Torr)
Working temperature : 32~140° F / 0~60°C
Applicable Tube: Polyurethane and Nylon

Structural Diagram



Product Code System

METRIC - BSPT(R)

PC 06-01-C

Compact OneTouch Fitting	Tube Dia		Thread Size		Compact
	CODE	SIZE	METRIC THREAD		
	03	Ø3			Nickel
	04	Ø4	M3	M3×0.5	Sleeve Color Black
	06	Ø6	M5	M5×0.8	
			M6	M6×1.0	
			R(PT) THREAD		
			CODE	SIZE	
			01	R1/8	

METRIC - BSPP(G)

PC 06-G01-C

Compact OneTouch Fitting	Tube Dia		Thread Size		Sleeve Color
	CODE	SIZE	G(PF) THREAD		
	04	Ø4			Black
	06	Ø6	G01	G1/8	

INCH - BSPT(R)

PC 1/4-01-C

Compact OneTouch Fitting	Tube Dia		Thread Size		Compact
	CODE	SIZE	METRIC THREAD		
	1/8	Ø1/8			Nickel
	5/32	Ø5/32	M3	M3×0.5	Sleeve Color Black
	1/4	Ø1/4	M5	M5×0.8	
			M6	M6×1.0	
			R(PT) THREAD		
			CODE	SIZE	
			01	R1/8	

INCH - NPT

PC 1/4-N1-C

Compact OneTouch Fitting	Tube Dia		Thread Size		Sleeve Color
	CODE	SIZE	UNF THREAD		
	1/8	Ø1/8			Black
	5/32	Ø5/32	U	10-32UNF	
	1/4	Ø1/4			
			NPT THREAD		
			CODE	SIZE	
			N0	NPT1/16	
			N1	NPT1/8	

Applied example

- All Compact Fitting products are treated with electroless nickel coating on the brass body for excellent tolerance to corrosion.
- The sleeve is oval so that connection and release are easy.

POC Models

- A hexagonal shape is processed at the interior for joining with a hexagonal wrench.
- The exterior of the POC is circular so that no other tools can be used for connection.

PL, PLL Models

- The plastic main body rotates to allow efficient piping.

CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications and Common Precaution of Fitting Products before use.
- Assemble the fitting according to the proper connection torque value .
- Proper torque refers to connection by hand and 2~3 rotations using a tool. Excessive pressure may damage the screw.
- To insert the tube into the fitting, cut the tube at a right angle, insert it fully to the end, and pull the tube gently to make sure it isn't released.

WARNING

- Be sure to prevent pressure buildup due to twisting, pulling, and bending of the fitting product. This may cause product damage or air leakage.
- When the applied fluid is water, do not use the product if it does not meet all specifications. Fitting damage, tube release, and compressed air leakage may occur.

PC-C



MODEL(ΦD-T)							
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PC 03-M3C	PC 04-M6C	PC 1/8-M3C	PC 5/32-M6C	PC 1/8-UC	PC 5/32-N0C	PC 04-G01C	
PC 03-M5C	PC 04-01C	PC 1/8-M5C	PC 5/32-01C	PC 1/8-N0C	PC 5/32-N1C	PC 06-G01C	
PC 03-M6C	PC 06-M5C	PC 1/8-M6C	PC 1/4-M5C	PC 1/8-N1C	PC 1/4-UC		
PC 03-01C	PC 06-M6C	PC 1/8-01C	PC 1/4-M6C	PC 1/8-N2C	PC 1/4-N0C		
PC 04-M3C	PC 06-01C	PC 5/32-M3C	PC 1/4-01C	PC 5/32-UC	PC 1/4-N1C		
PC 04-M5C		PC 5/32-M5C					

PC-G-C



PCF-C



MODEL(ΦD-T)					
Tube(Metric)-Thread(Rc)		Tube(Inch)-Thread(Rc)		Tube(Inch)-Thread(NPT)	
PCF 03-M3C	PCF 04-M6C	PCF 1/8-M3C	PCF 5/32-M6C	PCF 1/8-UC	PCF 5/32-N0C
PCF 03-M5C	PCF 04-01C	PCF 1/8-M5C	PCF 5/32-01C	PCF 1/8-N0C	PCF 5/32-N1C
PCF 03-M6C	PCF 06-M5C	PCF 1/8-M6C	PCF 1/4-M5C	PCF 1/8-N1C	PCF 1/4-UC
PCF 04-M3C	PCF 06-M6C	PCF 1/8-01C	PCF 1/4-M6C	PCF 1/8-N2C	PCF 1/4-N0C
PCF 04-M5C	PCF 06-01C	PCF 5/32-M3C	PCF 1/4-01C	PCF 5/32-UC	PCF 1/4-N1C
		PCF 5/32-M5C			

POC-C



MODEL(ΦD-T)					
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)	
POC 03-M3C	POC 04-01C	POC 1/8-M3C	POC 5/32-M6C	POC 1/8-UC	POC 1/4-UC
POC 03-M5C	POC 06-M5C	POC 1/8-M5C	POC 5/32-01C	POC 1/8-N0C	POC 1/4-N0C
POC 03-M6C	POC 06-M6C	POC 1/8-M6C	POC 1/4-M5C	POC 1/8-N1C	POC 1/4-N1C
POC 04-M3C	POC 06-01C	POC 1/8-01C	POC 1/4-M6C	POC 5/32-UC	
POC 04-M5C		POC 5/32-M3C	POC 1/4-01C	POC 5/32-N0C	
POC 04-M6C		POC 5/32-M5C		POC 5/32-N1C	

PMM-C



MODEL(ΦD)	
Tube(Metric)	
PMM-03C	
PMM-04C	
PMM-06C	

PL-C



MODEL(ΦD-T)							
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
PL 03-M3C	PL 04-01C	PL 1/8-M3C	PL 5/32-M6C	PL 1/8-UC	PL 5/32-N1C	PL 04-G01C	
PL 03-M5C	PL 06-M5C	PL 1/8-M5C	PL 5/32-01C	PL 1/8-N0C	PL 1/4-UC	PL 06-G01C	
PL 03-M6C	PL 06-M6C	PL 1/8-M6C	PL 1/4-M5C	PL 1/8-N1C	PL 1/4-N0C		
PL 04-M3C	PL 06-01C	PL 1/8-01C	PL 1/4-M6C	PL 1/8-N2C	PL 1/4-N1C		
PL 04-M5C		PL 5/32-M3C	PL 1/4-01C	PL 5/32-UC			
PL 04-M6C		PL 5/32-M5C		PL 5/32-N0C			

PL-G-C



PLL-C



MODEL(ΦD-T)					
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)	
PLL 03-M3C	PLL 04-01C	PLL 1/8-M3C	PLL 5/32-M6C	PLL 1/8-UC	PLL 1/4-UC
PLL 03-M5C	PLL 06-M5C	PLL 1/8-M5C	PLL 5/32-01C	PLL 1/8-N0C	PLL 1/4-N0C
PLL 03-M6C	PLL 06-M6C	PLL 1/8-M6C	PLL 1/4-M5C	PLL 1/8-N1C	PLL 1/4-N1C
PLL 04-M3C	PLL 06-01C	PLL 1/8-01C	PLL 1/4-M6C	PLL 5/32-UC	
PLL 04-M5C		PLL 5/32-M3C	PLL 1/4-01C	PLL 5/32-N0C	
PLL 04-M6C		PLL 5/32-M5C		PLL 5/32-N1C	

PT-C



MODEL(ΦD-T)					
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)	
PT 03-M3C	PT 04-01C	PT 1/8-M3C	PT 5/32-M6C	PT 1/8-UC	PT 1/4-UC
PT 03-M5C	PT 06-M5C	PT 1/8-M5C	PT 5/32-01C	PT 1/8-N0C	PT 1/4-N0C
PT 03-M6C	PT 06-M6C	PT 1/8-M6C	PT 1/4-M5C	PT 1/8-N1C	PT 1/4-N1C
PT 04-M3C	PT 06-01C	PT 1/8-01C	PT 1/4-M6C	PT 5/32-UC	
PT 04-M5C		PT 5/32-M3C	PT 1/4-01C	PT 5/32-N0C	
PT 04-M6C		PT 5/32-M5C		PT 5/32-N1C	

PST-C



MODEL(ΦD-T)					
Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)	
PST 03-M3C	PST 04-01C	PST 1/8-M3C	PST 5/32-M6C	PST 1/8-UC	PST 1/4-UC
PST 03-M5C	PST 06-M5C	PST 1/8-M5C	PST 5/32-01C	PST 1/8-N0C	PST 1/4-N0C
PST 03-M6C	PST 06-M6C	PST 1/8-M6C	PST 1/4-M5C	PST 1/8-N1C	PST 1/4-N1C
PST 04-M3C	PST 06-01C	PST 1/8-01C	PST 1/4-M6C	PST 5/32-UC	
PST 04-M5C		PST 5/32-M3C	PST 1/4-01C	PST 5/32-N0C	
PST 04-M6C		PST 5/32-M5C		PST 5/32-N1C	

PUC-C



MODEL(ΦD)	
Tube(Metric)	Tube(Inch)
PUC 03C	PUC 1/8C
PUC 04C	PUC 5/32C
PUC 06C	PUC 1/4C

PUL-C



MODEL(ΦD)	
Tube(Metric)	Tube(Inch)
PUL 03C	PUL 1/8C
PUL 04C	PUL 5/32C
PUL 06C	PUL 1/4C

PUT-C



MODEL(ΦD)	
Tube(Metric)	Tube(Inch)
PUT 03C	PUT 1/8C
PUT 04C	PUT 5/32C
PUT 06C	PUT 1/4C

PG-C



MODEL(ΦD1-ΦD2)	
Tube(Metric)	Tube(Inch)
PG 04-03C	PG 5/32-1/8C
PG 06-03C	PG 1/4-1/8C
PG 06-04C	PG 1/4-5/32C

PY-C



MODEL(ΦD)	
Tube(Metric)	Tube(Inch)
PY 03C	PY 1/8C
PY 04C	PY 5/32C
PY 06C	PY 1/4C

PW-C



MODEL(ΦD1-ΦD2)	
Tube(Metric)	Tube(Inch)
PW 04-03C	PW 5/32-1/8C
PW 06-03C	PW 1/4-1/8C
PW 06-04C	PW 1/4-5/32C

PGJ-C



MODEL(ΦD1-ΦD2)	
Tube(Metric)	Tube(Inch)
PGJ 04-03C	PGJ 5/32-1/8C
PGJ 06-03C	PGJ 1/4-1/8C
PGJ 06-04C	PGJ 1/4-5/32C

Speed Controllers

Applications

- A valve to control the speed of the air pressure actuator.
- Mainly installed in the air actuator.

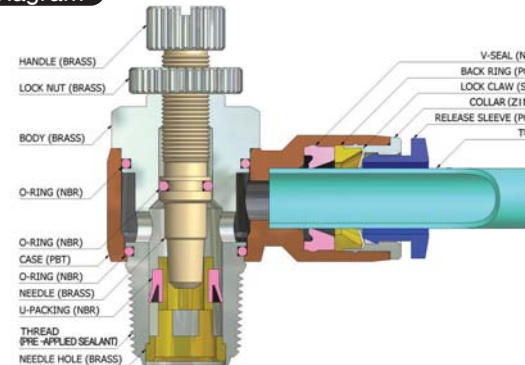
Features

- Accurate regulation of an optimal airflow rate for precise motion control.
- Tube direction and angle are controlled according to piping as the main body can rotate up to 360 after assembly.
- Needle rotation is increased to 10~12 times for easy speed and regular speed control.
- Easy speedcontrol with drive tools in limited and crowded spaces.
- (NSC(D) and NSC(DC) types)
- Miniaturized products occupy small space attaching to devices.

Specifications

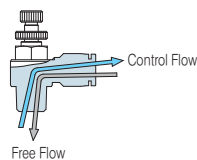
- Fluid type : Air(No other gases or liquids)
- Working pressure: 0~150PSI / 0~9.9Kgf/cm²(0~990kPa)
- Negative pressure: -29.5 in Hg / -750mmHg(-750Torr)
- Working temperature : 32~140° F / 0~60°C
- Applicable Tube: Polyurethane and Nylon

Structural Diagram



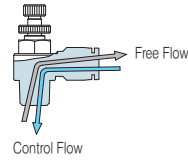
Applied example

Meter-Out method control



This product controls the air from the screw side, but does not control it from the tube side, thus allowing free flow.

Meter-In method control



It controls the airflow from the tube side, but does not control it from the screw side, thus allowing free flow.



Product Code System

METRIC - BSPT(R) NSC 06-01-MO

Speed Controllers	Tube Dia	Thread Size	Control Method
CODE	SIZE	METRIC THREAD	METER-OUT
04	Ø4	M5	NO SIGNAL
06	Ø6	M5	METER-IN
08	Ø8	R1/2	CODE IN
10	Ø10	R1/2	CODE IN
12	Ø12	R1/2	CODE IN

METRIC - BSPP(G) NSC 06-G01

Speed Controllers	Tube Dia	Thread Size	Sleeve Color
CODE	SIZE	G1/4	MI BLUE
04	Ø4	G1/4	MI RED
06	Ø6	G1/4	MI RED
08	Ø8	G1/4	MI RED
10	Ø10	G1/4	MI RED
12	Ø12	G1/4	MI RED

INCH - BSPT(R) NSC 1/4-01

Speed Controllers	Tube Dia	Thread Size	Sleeve Color
CODE	SIZE	M5	MI BLUE
04	Ø4	M5	MI RED
06	Ø6	M5	MI RED
08	Ø8	M5	MI RED
10	Ø10	M5	MI RED
12	Ø12	M5	MI RED

INCH - NPT NSC 1/4-N1-MO

Speed Controllers	Tube Dia	Thread Size	Control Method
CODE	SIZE	NPT	METER-OUT
04	Ø4	NPT	NO SIGNAL
06	Ø6	NPT	METER-IN
08	Ø8	NPT	CODE IN
10	Ø10	NPT	CODE IN
12	Ø12	NPT	CODE IN

NSC



Swivel rotating type

MODEL (ΦD-T)

Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)
NSC 03-M5	NSC 08-03	NSC1/4-M5	NSC04-G01
NSC 04-M5	NSC 08-04	NSC1/4-01	NSC04-G02
NSC 04-01	NSC 10-01	NSC1/4-02	NSC06-G01
NSC 04-02	NSC 10-02	NSC5/32-N1	NSC06-G02
NSC 06-M5	NSC 10-03	NSC5/16-01	NSC06-G03
NSC 06-01	NSC 10-04	NSC5/16-02	NSC06-G04
NSC 06-02	NSC 12-02	NSC3/16-N1	NSC08-G01
NSC 06-03	NSC 12-03	NSC3/16-N2	NSC08-G02
NSC 06-04	NSC 12-04	NSC3/8-N3	NSC08-G03
NSC 08-01		NSC1/4-N1	NSC08-G04
NSC 08-02		NSC1/4-N2	NSC10-G01

NSC-G



Swivel rotating type

NSC(D)

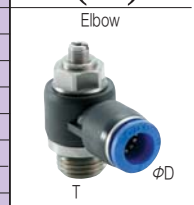


Swivel rotating type

MODEL (ΦD-T)

Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)
NSC 03-M5(D)	NSC 08-03(D)	NSC1/4-M5(D)	NSC04-G01(D)
NSC 04-M5(D)	NSC 08-04(D)	NSC1/4-01(D)	NSC04-G02(D)
NSC 04-01(D)	NSC 10-01(D)	NSC1/4-02(D)	NSC06-G01(D)
NSC 04-02(D)	NSC 10-02(D)	NSC5/32-N1(D)	NSC06-G02(D)
NSC 06-M5(D)	NSC 10-03(D)	NSC5/16-01(D)	NSC06-G03(D)
NSC 06-01(D)	NSC 10-04(D)	NSC5/16-02(D)	NSC06-G04(D)
NSC 06-02(D)	NSC 12-02(D)	NSC3/16-N1(D)	NSC08-G01(D)
NSC 06-03(D)	NSC 12-03(D)	NSC3/16-N2(D)	NSC08-G02(D)
NSC 06-04(D)	NSC 12-04(D)	NSC3/8-N3(D)	NSC08-G03(D)
NSC 08-01(D)		NSC1/4-N1(D)	NSC08-G04(D)
NSC 08-02(D)		NSC1/4-N2(D)	NSC10-G01(D)

NSC-G(D)



Swivel rotating type

Speed Controllers

NSC(DC)



Swivel rotating type

MODEL (ΦD-T)

Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)
NSC 03-M5(DC)	NSC 08-03(DC)	NSC1/4-M5(DC)	NSC04-G01(DC)
NSC 04-M5(DC)	NSC 08-04(DC)	NSC1/4-01(DC)	NSC04-G02(DC)
NSC 04-01(DC)	NSC 10-01(DC)	NSC1/4-02(DC)	NSC06-G01(DC)
NSC 04-02(DC)	NSC 10-02(DC)	NSC5/32-N1(DC)	NSC06-G02(DC)
NSC 06-M5(DC)	NSC 10-03(DC)	NSC5/16-01(DC)	NSC06-G03(DC)
NSC 06-01(DC)	NSC 10-04(DC)	NSC5/16-02(DC)	NSC06-G04(DC)
NSC 06-02(DC)	NSC 12-02(DC)	NSC3/16-N1(DC)	NSC08-G01(DC)
NSC 06-03(DC)	NSC 12-03(DC)	NSC3/16-N2(DC)	NSC08-G02(DC)
NSC 06-04(DC)	NSC 12-04(DC)	NSC3/8-N3(DC)	NSC08-G03(DC)
NSC 08-01(DC)		NSC1/4-N1(DC)	NSC08-G04(DC)
NSC 08-02(DC)		NSC1/4-N2(DC)	NSC10-G01(DC)

NSC-G(DC)



Swivel rotating type

NSS



Swivel rotating type

MODEL (ΦD-T)

Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)
NSS 04-M5	NSS 08-03	NSS 1/4-M5	NSS 04-G01
NSS 04-01	NSS 08-04	NSS 1/4-01	NSS 04-G02
NSS 04-02	NSS 10-02	NSS 1/4-02	NSS 06-G01
NSS 06-M5	NSS 10-03	NSS 5/16-01	NSS 06-G02
NSS 06-01	NSS 10-04	NSS 5/16-02	NSS 06-G03
NSS 06-02	NSS 12-02	NSS 5/16-03	NSS 08-G01
NSS 06-03	NSS 12-03	NSS 3/8-02	NSS 08-G02
NSS 08-01	NSS 12-04	NSS 3/8-03	NSS 08-G03
NSS 08-02		NSS 1/4-N2	NSS 08-G04
		NSS 1/4-N3	NSS 1/2-N4

NSS-G



Swivel rotating type

NSS(D)



Swivel rotating type

MODEL (ΦD-T)

Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)
NSS 04-M5(D)	NSS 08-03(D)	NSS 1/4-M5(D)	NSS 04-G01(D)
NSS 04-01(D)	NSS 08-04(D)	NSS 1/4-01(D)	NSS 04-G02(D)
NSS 04-02(D)	NSS 10-02(D)	NSS 1/4-02(D)	NSS 06-G01(D)
NSS 06-M5(D)	NSS 10-03(D)	NSS 5/16-01(D)	NSS 06-G02(D)
NSS 06-01(D)	NSS 10-04(D)	NSS 5/16-02(D)	NSS 06-G03(D)
NSS 06-02(D)	NSS 12-02(D)	NSS 5/16-03(D)	NSS 08-G01(D)
NSS 06-03(D)	NSS 12-03(D)	NSS 3/8-02(D)	NSS 08-G02(D)
NSS 08-01(D)	NSS 12-04(D)	NSS 3/8-03(D)	NSS 08-G03(D)
NSS 08-02(D)		NSS 1/4-N2(D)	NSS 08-G04(D)
		NSS 1/4-N3(D)	NSS 1/2-N4(D)

NSS-G(D)



Swivel rotating type

NSS(DC)



Swivel rotating type

MODEL (ΦD-T)

Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)
NSS 04-M5(DC)	NSS 08-03(DC)	NSS 1/4-M5(DC)	NSS 04-G01(DC)
NSS 04-01(DC)	NSS 08-04(DC)	NSS 1/4-01(DC)	NSS 04-G02(DC)
NSS 04-02(DC)	NSS 10-02(DC)	NSS 1/4-02(DC)	NSS 06-G01(DC)
NSS 06-M5(DC)	NSS 10-03(DC)	NSS 5/16-01(DC)	NSS 06-G02(DC)
NSS 06-01(DC)	NSS 10-04(DC)	NSS 5/16-02(DC)	NSS 06-G03(DC)
NSS 06-02(DC)	NSS 12-02(DC)	NSS 5/16-03(DC)	NSS 08-G01(DC)
NSS 06-03(DC)	NSS 12-03(DC)	NSS 3/8-02(DC)	NSS 08-G02(DC)
NSS 08-01(DC)	NSS 12-04(DC)	NSS 3/8-03(DC)	NSS 08-G03(DC)
NSS 08-02(DC)		NSS 1/4-N2(DC)	NSS 08-G04(DC)
		NSS 1/4-N3(DC)	NSS 1/2-N4(DC)

NSS-G(DC)



Swivel rotating type

NSF



Swivel rotating type

MODEL (ΦD)

Tube(Metric)	Tube(Inch)
NSF 04	NSF5/32
NSF 06	NSF3/16
NSF 08	NSF1/4
NSF 10	NSF5/16
NSF 12	NSF3/8
	NSF1/2

CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications, and Common Precaution of Fitting Products before use.
- As it allows some degree of leakage, it cannot be used for stop valves that do not permit leakage. Do not use this product when you need zero leakage.

WARNING

- Confirm the direction of airflow before use. If the flow control direction operates backwards, the speed control needle may not operate and the actuator may spring out, causing possible bodily harm.
- The speed control must be started slowly with all the needles locked.
- Confirm the rotation of the needle valve, as too many rotations of the needle may cause damage.
- Do not force impact or rotation on the body or fitting section. It may cause product damage or air leakage.

Hand Valves / Hand Slide Valves

Applications

- Used for switching compressed air.

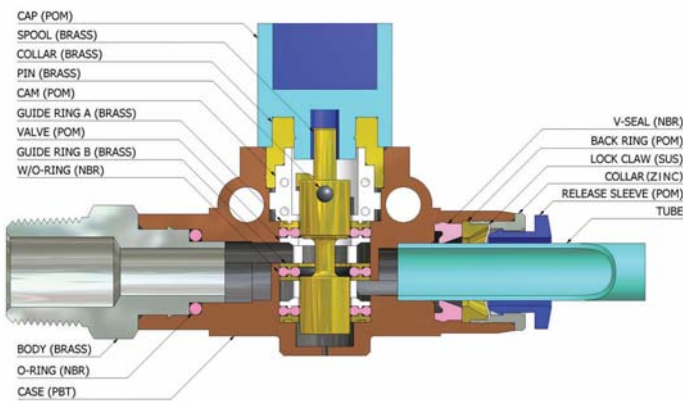
Features

- This product switches compressed air on/off of air pressure devices by simply turning the handle.
- Maintenance or inspection is possible when the remaining pressure in the device is removed.
- A three-way valve discharges the remaining pressure out, and blocks the incoming air in the off state.
- There are 4 types available depending on the method applied to air pressure flow.

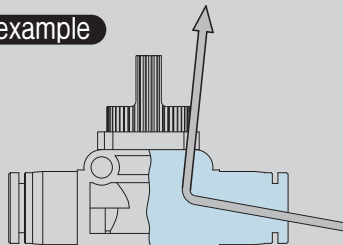
Specifications

Fluid type : Air (No other gases or liquids)
Working pressure : 0~150PSI / 0~9.9Kgf/cm² (0~990kPa)
Negative pressure : -29.5 in Hg / -750mmHg (-750Torr)
Working temperature : 32~140° F / 0~60° C
Applicable Tube : Polyurethane and Nylon

Structural Diagram



Applied example



- To insert the tube into the fitting, insert it fully to the end, and for release, block the compressed air and push the sleeve gently to pull the tube out.
- Be sure to select the product according to your needs as hand valves discharge the remaining air using a 3-way method so that leakage may occur when fluids other than water are applied.

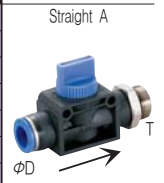
Hand Valves / Hand Slide Valves

HVC



MODEL (φD-T)					
Tube (Metric) - Thread (R)		Tube (Inch) - Thread (NPT)		Tube (Metric) - Thread (G)	
HVC 06-01	HVC 10-03	HVC 1/4-N1	HVC 3/8-N3	HVC06-G01	HVC10-G03
HVC 06-02	HVC 10-04	HVC 1/4-N2	HVC 3/8-N4	HVC06-G02	HVC10-G04
HVC 06-03	HVC 12-02	HVC 1/4-N3	HVC 1/2-N2	HVC06-G03	HVC12-G02
HVC 08-01	HVC 12-03	HVC 5/16-N1	HVC 1/2-N3	HVC08-G01	HVC12-G03
HVC 08-02	HVC 12-04	HVC 5/16-N2	HVC 1/2-N4	HVC08-G02	HVC12-G04
HVC 08-03		HVC 5/16-N3		HVC08-G03	
HVC 10-02		HVC 3/8-N2		HVC10-G02	

HVC-G

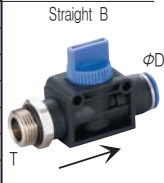


HVF



MODEL (T-φD)					
Thread (R) - Tube (Metric)		Thread (NPT) - Tube (Inch)		Thread (G) - Tube (Metric)	
HVF 01-06	HVF 02-10	HVF N1-1/4	HVF N2-3/8	HVF G01-06	HVF G02-10
HVF 02-06	HVF 03-10	HVF N2-1/4	HVF N3-3/8	HVF G02-06	HVF G03-10
HVF 03-06	HVF 04-10	HVF N3-1/4	HVF N4-3/8	HVF G03-06	HVF G04-10
HVF 01-08	HVF 02-12	HVF N1-5/16	HVF N2-1/2	HVF G01-08	HVF G02-12
HVF 02-08	HVF 03-12	HVF N2-5/16	HVF N3-1/2	HVF G02-08	HVF G03-12
HVF 03-08	HVF 04-12	HVF N3-5/16	HVF N4-1/2	HVF G03-08	HVF G04-12

HVF-G



HVU



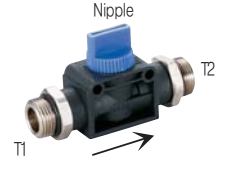
MODEL (φD1-φD2)	
Tube (Metric)	Tube (Inch)
HVU 06-06	HVU 1/4-1/4
HVU 08-06	HVU 5/16-1/4
HVU 08-08	HVU 5/16-5/16
HVU 10-08	HVU 3/8-5/16
HVU 10-10	HVU 3/8-3/8
HVU 12-10	HVU 1/2-3/8
HVU 12-12	HVU 1/2-1/2

HVM



MODEL (T1-T2)		
Thread (R)	Thread (NPT)	Thread (G)
HVM 01-01	HVM N1-N1	HVM G01-G01
HVM 02-01	HVM N2-N1	HVM G02-G01
HVM 02-02	HVM N2-N2	HVM G02-G02
HVM 03-02	HVM N3-N2	HVM G03-G02
HVM 03-03	HVM N3-N3	HVM G03-G03
HVM 04-03	HVM N4-N3	HVM G04-G03
HVM 04-04	HVM N4-N4	HVM G04-G04

HVM-G



HSV



MODEL (T)	
Thread (R)	
HSV M5	
HSV 01	
HSV 02	
HSV 03	
HSV 04	
HSV 06	

Product Code System

METRIC - BSPT (R)

HVC 06-01

HAND VALVE		Tube Dia		Thread Size	
CODE	φD	CODE	SIZE	CODE	SIZE
06	φ6	01	R1/8		
08	φ8	02	R1/4		
10	φ10	03	R3/8		
12	φ12	04	R1/2		

METRIC - BSPP (G)

HVC 06-G01

HAND VALVE		Tube Dia		Thread Size	
CODE	φD	CODE	SIZE	CODE	SIZE
06	φ6	G01	G1/8		
08	φ8	G02	G1/4		
10	φ10	G03	G3/8		
12	φ12	G04	G1/2		

INCH - NPT

HVC 1/4-N1

HAND VALVE		Tube Dia		Thread Size	
CODE	φD	CODE	SIZE	CODE	SIZE
1/4	1/4"	N1	NPT1/8		
5/16	5/16"	N2	NPT1/4		
3/8	3/8"	N3	NPT3/8		
1/2	1/2"	N4	NPT1/2		

Hand valve

CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications, and Common Precaution of Fitting Products before use.

WARNING

- Do not force impact or rotation on the body or fitting section.
- Usage in vacuum state may cause operational errors due to drawn-in dust, so a vacuum filter should be attached at the intake side.
- Make sure that the handle lever operates at a full 90° otherwise, there may not be enough flow.

Hand Slide valve

CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications, and Common Precaution of Fitting Products before use.
- Make sure that the handle lever is turned properly to the desired side. If it isn't turned properly, there may not be enough flow.

WARNING

- Do not force impact or rotation on the body or fitting section. It may cause product damage or air leakage.
- Confirm the air flow control direction before use.
- Make sure that the power and air is blocked and the remaining pressure in pipes is completely removed before maintenance or inspection.

Stop Fittings

Applications

- Used in the place where pneumatic piping frequently changes.

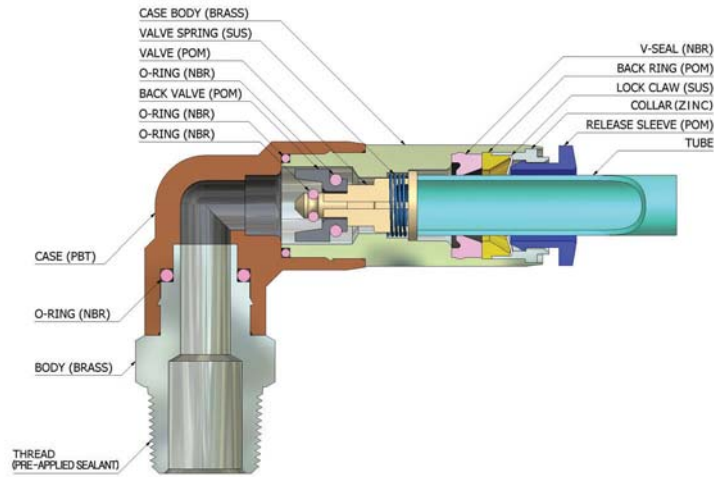
Features

- Air is completely blocked when the tube is released, and the air flows again only after connection to ensure safety. The air flows only when the tube is connected.

Specifications

- Fluid type : Air (No other gases or liquids)
- Working pressure : 0~150PSI / 0~9.9Kgf/cm² (0~990kPa)
- Negative pressure : -29.5 in Hg / -750mmHg (-750Torr)
- Working temperature : 32~140° F / 0~60° C
- Applicable Tube : Polyurethane and Nylon

Structural Diagram



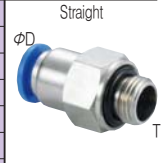
Stop Fittings

SPC



MODEL (φD-T)					
Tube (Metric)-Thread (R)		Tube (Inch)-Thread (NPT)		Tube (Metric)-Thread (G)	
SPC 04-01	SPC 10-04	SPC5/32-N1	SPC5/16-N3	SPC04-G01	SPC10-G04
SPC 06-01	SPC 12-02	SPC3/16-N1	SPC3/8-N2	SPC06-G01	SPC12-G02
SPC 06-02	SPC 12-03	SPC3/16-N2	SPC3/8-N3	SPC06-G02	SPC12-G03
SPC 08-02	SPC 12-04	SPC1/4-N1	SPC3/8-N4	SPC08-G02	SPC12-G04
SPC 08-03		SPC1/4-N2	SPC1/2-N3	SPC08-G03	
SPC 10-02		SPC5/16-N1	SPC1/2-N4	SPC10-G02	
SPC 10-03		SPC5/16-N2		SPC10-G03	

SPC-G



SPL



MODEL (φD-T)					
Tube (Metric)-Thread (R)		Tube (Inch)-Thread (NPT)		Tube (Metric)-Thread (G)	
SPL 04-M5	SPL 08-02	SPL5/32-U	SPL5/16-N1	SPL04-G01	SPL10-G04
SPL 04-M6	SPL 08-03	SPL5/32-N1	SPL5/16-N2	SPL06-G01	SPL12-G03
SPL 04-01	SPL 10-02	SPL3/16-U	SPL5/16-N3	SPL06-G02	SPL12-G04
SPL 06-M5	SPL 10-03	SPL3/16-N1	SPL3/8-N2	SPL08-G02	
SPL 06-01	SPL 10-04	SPL3/16-N2	SPL3/8-N3	SPL08-G03	
SPL 06-02	SPL 12-03	SPL1/4-U	SPL3/8-N4	SPL10-G02	
SPL 08-01	SPL 12-04	SPL1/4-N1	SPL1/2-N3	SPL10-G03	
		SPL1/4-N2	SPL1/2-N4		

SPL-G

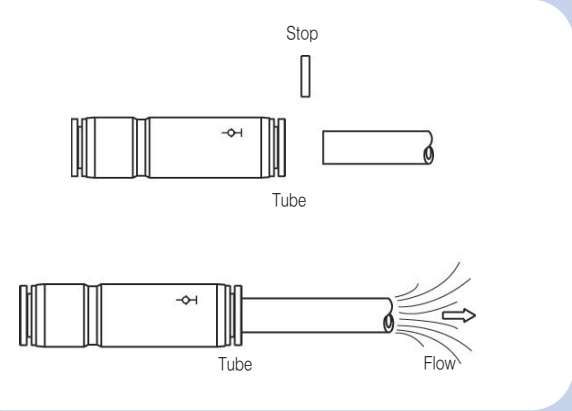


SPU



MODEL (φD)	
Tube (Metric)	Tube (Inch)
SPU 04	SPU 5/32
SPU 06	SPU 3/16
SPU 08	SPU 1/4
SPU 10	SPU 5/16
SPU 12	SPU 3/8
	SPU 1/2

Control System



Product Code System

METRIC - BSPT(R)

SPC 06-01

STOP FITTING		Tube Dia		Thread Size	
CODE	φD	CODE	SIZE	CODE	SIZE
04	φ4	M5	M5×0.8		
06	φ6	M6	M6×1.0		
08	φ8	01	R1/8		
10	φ10	02	R1/4		
12	φ12	03	R3/8		
		04	R1/2		

METRIC - BSPP(G)

SPC 06-G01

STOP FITTING		Tube Dia		Thread Size	
CODE	φD	CODE	SIZE	CODE	SIZE
04	φ4	G01	G1/8		
06	φ6	G02	G1/4		
08	φ8	G03	G3/8		
10	φ10	G04	G1/2		
12	φ12				

INCH - NPT

SPC 1/4-N1

STOP FITTING		Tube Dia		Thread Size	
CODE	ØD	CODE	SIZE	CODE	SIZE
5/32	5/32"	U	10-32UNF		
3/16	3/16"	N1	NPT1/8		
1/4	1/4"	N2	NPT1/4		
5/16	5/16"	N3	NPT3/8		
3/8	3/8"	N4	NPT1/2		
1/2	1/2"				

CAUTION

- Be sure to refer to the Caution on Safety, Classification of Warning Indication, and Common Precaution of Fitting Products before use.
- Assemble the fitting according to the proper connection torque value.
- Proper torque refers to connection by hand and 2~3 rotations using a tool. Excessive pressure may damage the screw.
- Confirm the air flow control direction before connecting the tube. If the flow control direction operates backwards, air will not flow.

WARNING

- Do not force impact or rotation on the body or fitting section.
- Never open the tube under pressure. The springing power of the tube may cause bodily harm.

Check Valves

Applications

- Used in places where air should flow in one direction only.
- Used in places where the air pressure of the ventilation section should be kept uniform.
- Good for low pressure devices.

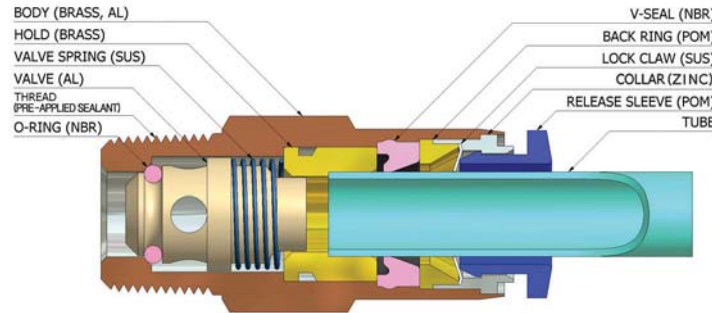
Features

- Suitable for low pressure applications.
- This valve allows compressed air from one side flow and blocks the inverse flow to protect and maintain the vacuum line and is easily applied to low pressure piping.

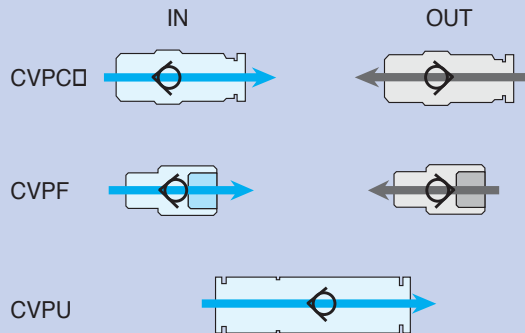
Specifications

- Fluid type : Air (No other gases or liquids)
- Working pressure : 0~150PSI / 0~9.9Kgf/cm² (0~990kPa)
- Negative pressure : -29.5 in Hg / -750mmHg (-750Torr)
- Working temperature : 32~140° F / 0~60° C
- Applicable Tube : Polyurethane and Nylon

Structural Diagram



Applied example



Product Code System

METRIC - BSPT(R) CVPC 08-01

CHECK VALVES		Tube Dia		Thread Size		Sleeve color	
CODE	ΦD	CODE	SIZE	CODE	SIZE	OUT	BLUE
04	Φ4	M5	M5×0.8	01	R1/8	IN	RED
06	Φ6			02	R1/4		
08	Φ8			03	R3/8		
10	Φ10			04	R1/2		
12	Φ12						

METRIC - BSPP(G) CVPC 08-G1

CHECK VALVES		Tube Dia		Thread Size		Sleeve color	
CODE	ΦD	CODE	SIZE	CODE	SIZE	OUT	BLUE
04	Φ4	G01	G1/8			IN	RED
06	Φ6	G02	G1/4				
08	Φ8	G03	G3/8				
10	Φ10	G04	G1/2				
12	Φ12						

INCH - NPT CVPC 5/16-N1

CHECK VALVES		Tube Dia		Thread Size		Sleeve color	
CODE	SIZE	CODE	SIZE	CODE	SIZE	OUT	BLUE
1/4	1/4"	N1	NPT1/8			IN	RED
5/16	5/16"	N2	NPT1/4				
3/8	3/8"	N3	NPT3/8				
1/2	1/2"	N4	NPT1/2				

Check Valves

CVPC



Tube (Metric) - Thread (R)		Tube (Inch) - Thread (NPT)		Tube (Metric) - Thread (G)	
CVPC 04-M5	CVPC 10-03	CVPC5/32-U	CVPC5/16-N1	CVPC04-G01	CVPC12-G03
CVPC 04-M6	CVPC 10-04	CVPC5/32-N1	CVPC5/16-N2	CVPC06-G01	CVPC12-G04
CVPC 04-01	CVPC 12-03	CVPC3/16-U	CVPC3/8-N3	CVPC06-G02	
CVPC 06-01	CVPC 12-04	CVPC3/16-N1	CVPC3/8-N4	CVPC08-G01	
CVPC 06-02		CVPC3/16-N2	CVPC1/2-N3	CVPC08-G02	
CVPC 08-01		CVPC1/4-N1	CVPC1/2-N4	CVPC10-G03	
CVPC 08-02		CVPC1/4-N2		CVPC10-G04	

CVPC-G



CVPF



Thread (R) - Thread (Rc)		Thread (NPT) - Thread (NPT)		Thread (G) - Thread (G)	
CVPF 01-01		CVPF N1-N1		CVPF G01-G01	
CVPF 02-02		CVPF N2-N2		CVPF G02-G02	
CVPF 03-03		CVPF N3-N3		CVPF G03-G03	
CVPF 04-04		CVPF N4-N4		CVPF G04-G04	

CVPF-G



CVPU



Tube (Metric)		Tube (Inch)	
CVPU 04		CVPU 5/32	
CVPU 06		CVPU 3/16	
CVPU 08		CVPU 1/4	
CVPU 10		CVPU 5/16	
CVPU 12		CVPU 3/8	
		CVPU 1/2	

CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications, and Common Precaution of Fitting Products before use.
- Assemble the fitting according to the proper connection torque value.
- Proper torque refers to connection by hand and 2~3 rotations using a tool. Excessive pressure may damage the screw.

WARNING

- Do not force impact or rotation on the body or fitting section.
- The main body may heat due to too many transfer operations, and it may burn.

Speed Controller with Pilot Check Valves

Applications

- Realizes momentary intermediate stoppage of a cylinder and able to adjust speed control of it.

Features

- Combined with pilot check valve and speed controller.
- Enables 360° free direction of tubing mount.

Specifications

- Fluid type : Air (No other gases or liquids)
- Working pressure : 1.4~150PSI / 1~9.9Kgf / (100~990kPa)
- Negative pressure : -29.5 in Hg / -750mmHg (-750Torr)
- Working temperature : 32~140°F / 0~60°C
- Applicable Tube : Polyurethane and Nylon

Product Code System

METRIC - BSPT(R)

PVSC 06-01

Speed Controller
with Pilot Check
Valve Fitting

Tube Dia		Thread Size	
CODE	ØD	CODE	SIZE
06	Ø6	01	R1/8
08	Ø8	02	R1/4
10	Ø10	03	R3/8
12	Ø12	04	R1/2

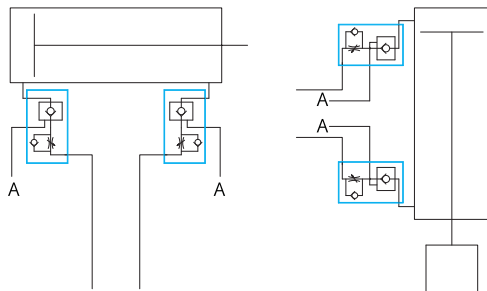
METRIC - BSPP(G)

PVSC 06-G01

Speed Controller
with Pilot Check
Valve Fitting

Tube Dia		Thread Size	
CODE	ØD	CODE	SIZE
06	Ø6	G01	G1/8
08	Ø8	G02	G1/4
10	Ø10	G03	G3/8
12	Ø12	G04	G1/2

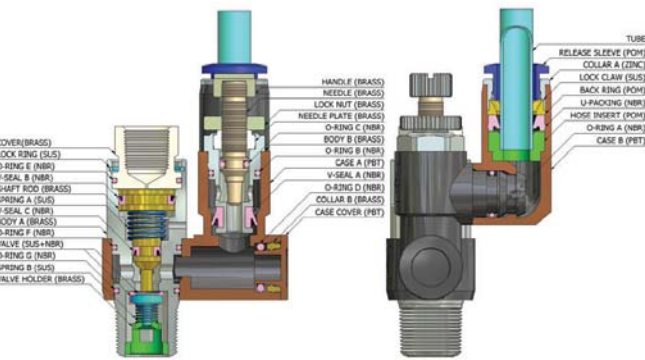
Applied example



Allow emergent stop at optional position controlled by 'A'

Protect falling-down of the rod of cylinder in the off state

Structural Diagram



PVSC

MODEL (ΦD-T)	
Tube (Metric)	
PVSC 06-01	PVSC 10-04
PVSC 06-02	PVSC 12-03
PVSC 08-01	PVSC 12-04
PVSC 08-02	
PVSC 08-03	
PVSC 10-03	

PVSC-G

MODEL (ΦD-T)	
Tube (Metric)	
PVSC 06-G01	PVSC 10-G04
PVSC 06-G02	PVSC 12-G03
PVSC 08-G01	PVSC 12-G04
PVSC 08-G02	
PVSC 08-G03	
PVSC 10-G03	

CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications, and Common Precaution of Fitting Products before use.
- Assemble the fitting according to the proper connection torque value.
- Proper torque refers to connection by hand and 2~3 rotations using a tool. Excessive pressure may damage the screw.

WARNING

- Do not force impact or rotation on the body or fitting section.
- The main body may heat due to too many transfer operations, and it may burn.

Two-Touch Fittings

Application

- A nut tightening pipe connection tool for devices that use pneumatic piping.

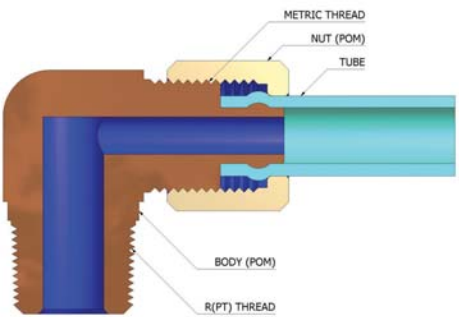
Features

- The connection method is nut tightening and efficient in environments with vibration.
- Made from plastics to be semi-permanent, has good tolerance to corrosion and chemicals.
- Suited for low air pressure devices.

Specifications

- Fluid type : Air (No other gases or liquids)
- Working pressure: 0~150PSI / 0~9.9Kgf/cm² (0~990kPa)
- Negative pressure: -29.5 in Hg / -750mmHg (-750Torr)
- Working temperature: 32~140°F / 0~60°C
- Applicable Tube : Polyurethane and Nylon

Structural Diagram



Product Code System

METRIC - BSPT(R)

CK 06-01

Two-Touch
Fitting

Tube Dia		Thread Size	
CODE	O.D.	CODE	SIZE
04	Ø4	01	R1/8
06	Ø6	02	R1/4
08	Ø8	03	R3/8
10	Ø10	04	R1/2

CK

Straight



MODEL (ΦD-T)	
Tube (Metric)-Thread(R)	
CK 04-01	CK 10-02
CK 06-01	CK 10-03
CK 06-02	CK 12-02
CK 08-01	CK 12-03
CK 08-02	CK 12-04
CK 08-03	

GCK

Elbow



MODEL (ΦD-T)	
Tube (Metric)-Thread(R)	
GCK 04-01	GCK 10-02
GCK 06-01	GCK 10-03
GCK 06-02	GCK 12-02
GCK 08-01	GCK 12-03
GCK 08-02	GCK 12-04
GCK 08-03	

FCK

Union Tee



MODEL (ΦD)	
Tube (Metric)	
FCK 04	
FCK 06	
FCK 08	
FCK 10	
FCK 12	

CAUTION

- Be sure to refer to Caution Safety, Classification of Warning Indications, and Common Precaution of Fitting Products before use.
- The product is made from plastics and the screw section is not treated with Teflon coating so that a Teflon tape treatment before installation can be efficient to prevent air leakage.
- Be sure to prevent pressure buildup due to twisting, pulling, and bending of the fitting product. It may cause product damage or air leakage.
- To connect the tube, insert the tube to the end, and join the cap before use.
- Cut the pressed part of the tube before connection for reuse of the released tube.
- Be sure to prevent excessive pressure when tightening the screw because the product is made from plastics.

Silencers

Applications

- Installed at exhaust ports to diminish ventilating noise.

Features

- Made from corrosion-resistant plastic to have long durability and be light-weight.
- Low cost and good durability
- Attached to pneumatic exhaust port to diminish noise.
- Very compact, can be easily installed in limited spaces.

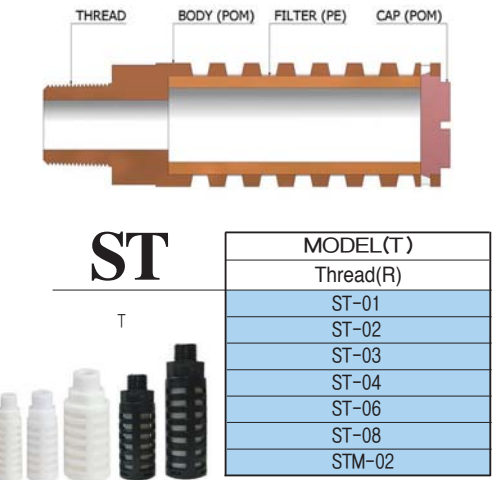
Specifications

Code	ST01	ST02	ST03	ST04	ST06	ST08
Maximum working pressure	7kgf/cm ² (700Kpa)/100PSI			9.9kgf/cm ² (990Kpa)/150PSI		

Applied example

- The exterior hexagonal part can be assembled with a spanner for screw joining.
- If the element is blocked, the increasing resistance may cause product damage and system performance may decline. When this happens, replace the product with a new one.

Structural Diagram



Product Code System

ST	01	STB	01
Silencer	Thread Size(T)	Metal Silencer	Thread Size(T)
	R(PT) THREAD		R(PT) THREAD
Code	Size	Code	Size
01	R1/8	M5	M5×0.8
02	R1/4	01	R1/8
03	R3/8	02	R1/4
04	R1/2	03	R3/8
06	R3/4	04	R1/2
08	R1	06	R3/4
		08	R1



CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications and Common Precaution of Fitting Products before use.
- If the element is blocked by dust from long use, the increased resistance may cause system performance decline and noise increase. In that case the product should be replaced periodically to prevent product damage.
- The product is made from plastics and the screw section is not treated with Teflon coating so a Teflon tape treatment before installation can be efficient for preventing air leakage.
- Be sure to prevent excessive pressure when tightening the screw because the product is made from plastics.

Metal Silencers

Applications

- Metal filters are available for high temperature and pressure environments, and they are durable against impact.
- Easy to weld and used for virtually every industry.

Features

- Excellent noise reduction and filtering effect in dry conditions.

Specifications

	STBM5	STB01	STB02	STB03	STB04	STB06	STB08
Maximum working pressure	15kgf/cm ² /220PSI						
Working temperature	0~80°C(32~176°F)						
Flow rate	250	300	320	340	370	400	420

STB

MODEL(T)
Thread(R)
STB-M5
STB-01
STB-02
STB-03
STB-04
STB-06
STB-08
STB(B)-M5
STB(B)-01
STB(B)-02
STB(B)-03
STB(B)-04
STB(B)-06
STB(B)-08

Tubes

Applications

- Used for piping of pneumatic devices.

Features

- Polyester-based thermoplastic Polyurethane resin(TPU)
- Excellent flexibility at low temperatures.
- Light-weight with good tolerance to wear and chemicals.
- Convenient for piping as it has better flexibility than nylon tubes.
- Tubes are available in diverse colors according to the working situation.

Specifications

- Fluid type : Air(No other gases or liquids)
- Working pressure: 0~150PSI / 0~9.9Kg/cm² (0~990KPa).
- Negative pressure: -29.5in Hg / -750mmHg(-750Torr)
- Working temperature: 32~140°F / 0~60°C

TUBE COLOR CODE

COLOR	White	Black	Red	Blue	Yellow	Green	Clear	Silver	Ti
CODE	WT	BK	RD	BU	YL	GR	CL	SL	



Product Code System

Polyurethane Tube

PU	08	50	BK
Polyurethane Tube	Tube Dia. (O.D. & I.D.)		Tube Color
	METRIC TUBE	INCH TUBE	COLOR
	CODE O.D. I.D.	CODE O.D.	CODE
	0320 Ø3 Ø2	1/8 1/8"	White WT
	0420 Ø4 Ø2	5/32 5/32"	Black BK
	0425 Ø4 Ø2.5	3/16 3/16"	Red RD
	0640 Ø6 Ø4	1/4 1/4"	Blue BU
	0850 Ø8 Ø5	5/16 5/16"	Yellow YL
	0855 Ø8 Ø5.5	3/8 3/8"	Green GN
	1065 Ø10 Ø6.5	1/2 1/2"	Clear CR
	1280 Ø12 Ø8		
	1290 Ø12 Ø9		
	1611 Ø16 Ø11		
	1612 Ø16 Ø12		

Nylon Tube

NA	08	60	BK
Nylon Tube	Tube Dia. (O.D. & I.D.)		Tube Color
	METRIC TUBE		COLOR
	CODE O.D. I.D.		CODE
	0420 Ø4 Ø2		White WT
	0425 Ø4 Ø2.5		
	0640 Ø6 Ø4		
	0860 Ø8 Ø6		
	1080 Ø10 Ø8		
	1290 Ø12 Ø9		

Polyurethane Coil Tube

UC	08	50-5	BK
Polyurethane Coil Tube	Tube Dia. (O.D. & I.D.)	Length	Tube Color
	METRIC TUBE		COLOR
	CODE O.D. I.D.		CODE
	0640 Ø6 Ø4		Yellow YL
	0850 Ø8 Ø5		Blue BU
	1065 Ø10 Ø6.5		Black BK
	1280 Ø12 Ø8		

PU

	PU 0320	PU 1/8
	PU 0420	PU 5/32
	PU 0425	PU 3/16
	PU 0640	PU 1/4
	PU 0850	PU 5/16
	PU 0855	PU 3/8
	PU 1065	PU 1/2
	PU 1280	
	PU 1290	
	PU 1612	

UC C

	UC 0640-3	UC 0850-5
	UC 0640-5	UC 0850-7.5
	UC 0850-5	UC 0850-10
	UC 0850-7.5	UC 1065-5
	UC 0850-10	UC 1065-7.5
	UC 1065-5	UC 1065-10
	UC 1065-7.5	UC 1280-5
	UC 1065-10	UC 1280-7.5
	UC 1280-5	UC 1280-10
	UC 1280-7.5	
	UC 1280-10	
	※w/o coupler	
※with coupler		

NA

MODEL(Outer · Inner)
Tube(Metric)
NA 0420
NA 0425
NA 0640
NA 0860
NA 1080
NA 1290

Tube Cutter

ETC



CAUTION

- Make sure the tube is fully inserted to the end of the fitting. Air leakage and tube release may occur.
- To insert the tube into the fitting, cut the tube at a right angle, insert it fully to the end, and pull the tube gently to make sure it isn't released.
- Secure the excess tube for future length changes in piping the tube.
- Be sure to fix the tube if the tube release may cause harm to human or property.

WARNING

- Do not use on fluids other than air and water (partly available for some products). Contact us for use on other fluids.
- If there is some damage or scratches on the oval shape and tube, air leakage and tube release may occur. Check it out meticulously.
- Water or other fluids at temperatures of 60° or higher may cause hydrolysis due to heat and it can also deform the tube or fitting.
- Do not use the product where weld spatters occur as fire may break out.
- Use caution in water as the product may be damaged by surge pressure.
- Do not use the product where it is directly exposed to fluids such as cutting oil, lubricating oil, and coolant oil.
- Avoid places where electrostatic induction and electrification occur.
- Avoid flammable gases such as oxygen, hydrogen, and LPG.

Air Guns

Applications

- Used for washing machinery, or cleaning places where out of reach.

Features

- Simple design.
- Easy to control air injection amount for user's convenience.
- Universally used due to the various length nozzles.
- Made from engineering plastic to be light and impact-resistant.

Specifications

- Fluid type : Air(No other gases or liquids)
- Working pressure: 0~150PSI / 0~9.9Kgf/cm²(0~990KPa).
- Negative pressure: -29.5in Hg / -750mmHg(-750Torr)
- Working temperature: 32~140°F / 0~60°C

Product Code System

CA	01	F
Air Gun	Nozzle Size(L)	Coupling Form
	METRIC TYPE	CODE TYPE
	Code Length	Blank PLUG
	00 0mm	F Rc1/4
	01 100mm	G G1/4
	02 200mm	
	03 300mm	



CAUTION

- Be sure to refer to the Caution Safety, Classification of Warning Indication and Common Precaution of Fitting Products (P8) before use.
- Be sure to prevent excessive impact, rotation, and bending because the main body is made from plastics.
- Make sure that the machine is at a stop before washing the product and removing the dust.

CA	MODEL(L-T)	CAF
	CA-0050 CA-0050F	
	CA-0100 CA-0100F	
	CA-0200 CA-0200F	
	CA-0300 CA-0300F	

CB01	MODEL(L-T)	CB01F
	CB01-100 CB01-100F	
	CB01-200 CB01-200F	
	CB01-300 CB01-300F	

Oil Ejector Lines

Applications

- Attached to machine tools to control the flow of cutting oil.

Features

- Good tolerance to corrosion, chemicals, and good anti-conductivity.
- Flowdirection can be changed in various directions.
- Made from plastics to be semi-permanent and light-weight.
- Various products can be selected according to operating purposes.

Product Code System

OEL	01	R
Oil Ejector line	Thread Size(T)	Nozzle Type(L)
	R(P/T) THREAD	CODE TYPE
	Code size	R Round
	01 R1/8	F Flare
	02 R1/4	
	03 R3/8	
	04 R1/2	
	06 R3/4	

OEL	MODEL(T-L)
	OEL 01
	OEL 02
	OEL 03
	OEL 04
	OEL 06

1/4" SYSTEM	1/2" SYSTEM	3/4" SYSTEM
1/4" Hose	1/2" Hose	3/4" Hose
1/4" Y Fitting	R1/2 Thread	
1/8" Round Nozzle	1/4" Round Nozzle	5/8" Round Nozzle
1/4" Double Socket	1/2" Y-Fitting	3/8" Round Nozzle
1/4" Round Nozzle	3/8" Round Nozzle	1/2" - 1/4" Y-Reducer
φ 1 Nozzle(16Hole)	1/2" Double Socket	3" Flare Nozzle
1" Flare Nozzle	1-1/4" Flare Nozzle	R 3/4 Thread
φ 1.5 Nozzle(16Hole)	1/2" Valve	
R 1/8 Thread	2-1/2" Flare Nozzle	
1/4" Valve	φ 2.0 Nozzle(20Hole)	
R 1/4 Thread	1/2" Thread Valve	

Couplers

Applications

- Used for compressed air piping.
- Widely applicable for hose connection of pneumatic devices, and air piping at plants, etc.

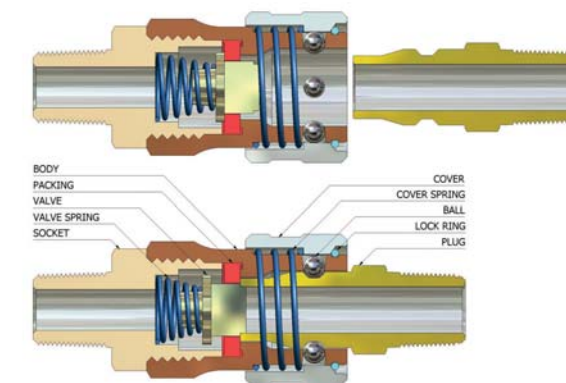
Features

- One-way valve with a built-in automatic switching valve in the hole.
- Various materials and shapes can be selected according to operating needs.
- Smooth connection and release of plug and socket allows convenient use.

Specifications

- Fluid type : Air(No other gases or liquids)
- Material: Steel, Brass
- Working pressure: 0~150PSI / 0~9.9Kgf/cm²(0~990KPa)
- Working temperature: 32~140°F / 0~60°C

Structural Diagram



Product Code System

OSH	20
① ② ③	④
① O : One Touch Coupler B : Brass Coupler	② 연결형태 CODE TYPE S Socket P Plug
③ 나사의 형태 CODE TYPE H Hose Stem M Male Thread F Female Thread N Nut	④ 나사의 크기 SIZE H M F N 20 9 R 1/4 Rc 1/4 - 30 11 R 3/8 Rc 3/8 - 40 15 R 1/2 Rc 1/2 - 400 15 R 1/2 Rc 1/2 - 600 21 R 3/4 Rc 3/4 - 800 27 R 1 Rc 1 - 08 - - - 8×5 10 - - - 10×65 12 - - - 12×8

Coupler

SH	MODEL(T)	SM	MODEL(T)	SF	MODEL(T)
	Hose Stem		Thread(R)		Thread(Rc)
	SH 20		SM 20		SF 20
	SH 30		SM 30		SF 30
	SH 40		SM 40		SF 40
	SH 400		SM 400		SF 400
	SH 600		SM 600		SF 600
	SH 800		SM 800		SF 800

SN	MODEL(T)	PH	MODEL(T)	PM	MODEL(T)
	Hose Nut(φ T)		Hose Stem		Thread(R)
	SN 08		PH 20		PM 20
	SN 10		PH 30		PM 30
	SN 12		PH 40		PM 40
			PH 400		PM 400
			PH 600		PM 600
			PH 800		PM 800

PF	MODEL(T)	PN	MODEL(T)
	Thread(Rc)		Hose Nut(φ T)
	PF 20		PN 08
	PF 30		PN 10
	PF 40		PN 12
	PF 400		
	PF 600		
	PF 800		

One - Touch Coupler

OSH	MODEL(T)
	Hose Stem
	OSH 20
	OSH 30
	OSH 40

OSN	MODEL(T)
	Hose Nut(ϕ T)
	OSN 08
	OSN 10
	OSN 12

OSM	MODEL(T)
	Thread(R)
	OSM 20
	OSM 30
	OSM 40

OSF	MODEL(T)
	Thread(Rc)
	OSF 20
	OSF 30
	OSF 40

Coupler (BSBM)

BSH	MODEL(T)
	Hose Stem
	BSH 20
	BSH 30
	BSH 40

BSM	MODEL(T)
	Thread(R)
	BSM 20
	BSM 30
	BSM 40

BSF	MODEL(T)
	Thread(Rc)
	BSF 20
	BSF 30
	BSF 40

BPH	MODEL(T)
	Hose Stem
	BPH 20
	BPH 30
	BPH 40

BPM	MODEL(T)
	Thread(R)
	BPM 20
	BPM 30
	BPM 40

BPF	MODEL(T)
	Thread(Rc)
	BPF 20
	BPF 30
	BPF 40

Mold Coupler (BSBM)

KSH	MODEL(T)
	Hose Stem
	KSH 20
	KSH 30A
	KSH 30

KSM	MODEL(T)
	Thread(R)
	KSM 10
	KSM 20
	KSM 30

KSF	MODEL(T)
	Thread(Rc)
	KSF 20
	KSF 30

KPH	MODEL(T)
	Hose Stem
	KPH 20
	KPH 30A
	KPH 30

KPM	MODEL(T)
	Thread(R)
	KPM 10
	KPM 20
	KPM 30

KPF	MODEL(T)
	Thread(Rc)
	KPF 10
	KPF 20
	KPF 30

Line Coupler

LC2A	MODEL(T)
	Thread(Rc 1/4)
	LC 2A

LC3A	MODEL(T)
	Thread(Rc 1/4)
	LC 3A

LC03	MODEL(T)
	Thread(Rc 1/4)
	LC 03

SP Couplers

Applications

- Coupler used for piping and steam, oil, medical and air devices.

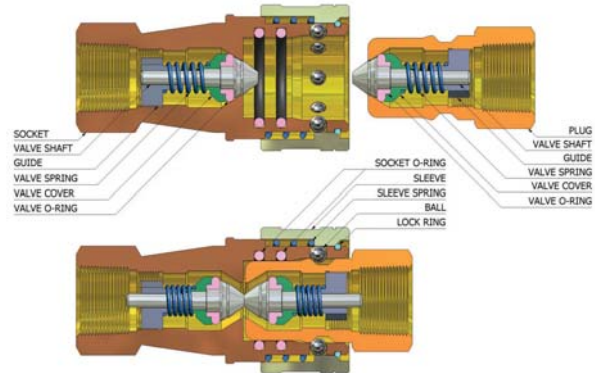
Features

- Easy to handle fluids and widely used for vacuum states with 10 mmHg of vacuum at release.
- The product has a built-in switching valve at the socket and plug, and is highly airtight and durable in comparison with existing couplers for regular and high pressure.
- Very safe due to a two-way switching type coupler.

Specifications

- Fluid type: Air, Water, Gasoline, Oil, Steam
- Material: Brass
- Working pressure: 0~70kgf/cm² (7000Kpa)
- Working temperature: -20 ~ 80°C

Structural Diagram



Compatibility

Connection is impossible if the sizes are different.

Installation Direction

Air can flow either to the plug or to socket according to the coupler installation direction

Minimum cross section (mm)

Name	01 SP	02 SP	03 SP	04 SP	06 SP	08 SP	Note
Minimum cross section	10	25	43	90	180	305	HNBR

Product Code System

SP 01 S

① SP 카플러 SP Coupler			② 나사의 크기			③ 연결형태	
SIZE	S	P	SIZE	S	P	CODE	TYPE
01	Rc 1/8	Rc 1/8	01	S	P	S	Socket
02	Rc 1/4	Rc 1/4	02	S	P	P	Plug
03	Rc 3/8	Rc 3/8					
04	Rc 1/2	Rc 1/2					
06	Rc 3/4	Rc 3/4					
08	Rc 1	Rc 1					



S	MODEL(T)
	Thread(Rc)
	SP 01S
	SP 02S
	SP 03S
	SP 04S
	SP 06S
	SP 08S



P	MODEL(T)
	Thread(Rc)
	SP 01P
	SP 02P
	SP 03P
	SP 04P
	SP 06P
	SP 08P

Two-Touch Fittings BSBM



Applications

- Screw joining fitting with large maintenance power and easy release and connection in limited piping spaces.
- Convenient to use in place with a lot of impact and vibration.

Features

- Attached insert allows tolerance to pressure and vibration.
- Two-touch type fitting fixes the tube more firmly.
- Efficient for piping due to coating at the screw section.

Specifications

- Fluid type : Air, Oil, Water
- Working pressure: 0~150PSI / 0~9.9Kgf/cm² (0~990KPa).
- Negative pressure : -750mmHg(-750 Torr)
- Working temperature
 - Air: -40°C ~ +80°C
 - Water : 0°C ~ +70°C
 - Oil: -40°C ~ +80°C

Product Code System

METRIC - BSPT(R)

CC 6×4-01

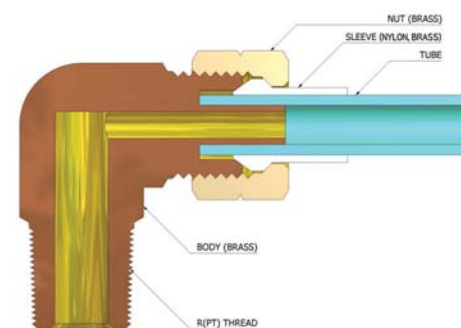
Two Touch Fitting BSBM			Tube Dia		Thread Size	
CODE	O.D.	I.D.	R(PT) THREAD	SIZE	CODE	SIZE
4×2	φ4	φ2	01	R1/8		
4×2.5	φ4	φ2.5	02	R1/4		
6×4	φ6	φ4	03	R3/8		
8×5	φ8	φ5	04	R1/2		
8×6	φ8	φ6				
10×6.5	φ10	φ6.5				
10×8	φ10	φ8				
12×8	φ12	φ8				
12×9	φ12	φ9				
16×12	φ16	φ12				
16×13	φ16	φ13				

INCH - BSPT(R)

CC 1/4-01

Two Touch Fitting BSBM			Tube Dia (Nylon Tube)		Thread Size	
CODE	O.D.	I.D.	R(PT) THREAD	SIZE	CODE	SIZE
1/8	φ3.18	φ2.0	01	R1/8		
3/16	φ4.76	φ3.0	02	R1/4		
1/4	φ6.35	φ4.57	03	R3/8		
5/16	φ8.0	φ5.0	04	R1/2		
3/8	φ9.53	φ6.99				
1/2	φ12.7	φ9.56				

Structural Diagram



CAUTION

- Be sure to refer to the Caution on Safety, Classification of Warning Indication and Common Precaution of Fitting Products (P8) before use.
- Assemble the fitting according to the proper connection torque value.
- The proper torque refers to connection by hand and 2~3 rotations by a tool. Excessive pressure may damage the screw.
- Use the product after cleaning the surface of the inserting section of tube.
- The sleeve of this product cannot be reused, so that it should be replaced after 1 (one) use.

WARNING

- Don't use re-treated or modified products.
- Avoid piping under tension, and also avoid high curvature piping at the tube insertion section of the fitting.
- Do not use the product in environments containing flammable and corrosive gases.
- Do not let the fluid contact the tube and fitting when the fluid is hot. It may cause bodily harm.

CC



MODEL (φD-T)				
Tube(Metric)-Thread(R)			Tube(Inch)-Thread(R)	
CC 4×2-01	CC 8×6-01	CC 10×8-04	CC 3/16-01	CC 3/8-01
CC 4×2-02	CC 8×6-02	CC 12×8-02	CC 3/16-02	CC 3/8-02
CC 6×4-01	CC 8×6-03	CC 12×8-03	CC 1/4-01	CC 3/8-03
CC 6×4-02	CC 10×6.5-02	CC 12×8-04	CC 1/4-02	CC 3/8-04
CC 6×4-03	CC 10×6.5-03	CC 12×9-02	CC 1/4-03	CC 1/2-02
CC 8×5-01	CC 10×6.5-04	CC 12×9-03	CC 5/16-01	CC 1/2-03
CC 8×5-02	CC 10×8-02	CC 12×9-04	CC 5/16-02	CC 1/2-04
CC 8×5-03	CC 10×8-03		CC 5/16-03	

CC



Two-Touch Fittings BSBM

CL



MODEL (φD-T)				
Tube(Metric)-Thread(R)			Tube(Inch)-Thread(R)	
CL 4×2-01	CL 8×6-02	CL 12×8-04	CL 3/16-01	CL 3/8-01
CL 4×2-02	CL 8×6-03	CL 12×9-02	CL 3/16-02	CL 3/8-02
CL 4×2.5-01	CL 10×6.5-02	CL 12×9-03	CL 1/4-01	CL 3/8-03
CL 6×4-01	CL 10×6.5-03	CL 12×9-04	CL 1/4-02	CL 3/8-04
CL 6×4-02	CL 10×6.5-04	CL 16×12-03	CL 1/4-03	CL 1/2-02
CL 6×4-03	CL 10×8-02	CL 16×12-04	CL 5/16-01	CL 1/2-03
CL 8×5-01	CL 10×8-03	CL 16×13-03	CL 5/16-02	CL 1/2-04
CL 8×5-02	CL 10×8-04	CL 16×13-04	CL 5/16-03	
CL 8×5-03	CL 12×8-02			
CL 8×6-01	CL 12×8-03			

CL



CT



MODEL (φD-T)	
Tube(Metric)-Thread(R)	
CT 4×2-01	CT 10×6.5-03
CT 6×4-01	CT 10×8-02
CT 6×4-02	CT 10×8-03
CT 6×4-03	CT 10×8-04
CT 8×5-01	CT 12×8-02
CT 8×5-02	CT 12×8-03
CT 8×5-03	CT 12×8-04
CT 8×6-01	CT 12×9-02
CT 8×6-02	CT 12×9-03
CT 8×6-03	CT 12×9-04
CT 10×6.5-02	

CUC



MODEL (φD)	
Tube(Metric)	Tube(Inch)
CUC 4×2	CUC 1/8
CUC 6×4	CUC 3/16
CUC 8×5	CUC 1/4
CUC 8×6	CUC 5/16
CUC 10×6.5	CUC 3/8
CUC 10×8	CUC 1/2
CUC 12×8	
CUC 12×9	

CUC



CUL



MODEL (φD)	
Tube(Metric)	
CUL 4×2	
CUL 6×4	
CUL 8×5	
CUL 8×6	
CUL 10×6.5	
CUL 10×8	
CUL 12×8	
CUL 12×9	

CUT



MODEL (φD)	
Tube(Metric)	Tube(Inch)
CUT 4×2	CUT 1/8
CUT 6×4	CUT 3/16
CUT 8×5	CUT 1/4
CUT 8×6	CUT 5/16
CUT 10×6.5	CUT 3/8
CUT 10×8	CUT 1/2
CUT 12×8	
CUT 12×9	

CUT



CSM



MODEL (φD)	
Tube(Metric)	
CSM 04	
CSM 06	
CSM 08	
CSM 10	
CSM 12	
CSM 16	

CSN



MODEL (φD)	
Tube(Metric)	Tube(Inch)
CSN 04	CSN 3/16
CSN 06	CSN 1/4
CSN 08	CSN 5/16
CSN 10	CSN 3/8
CSN 12	CSN 1/2

CSN



NUT



MODEL (φD)	
Tube(Metric)	Tube(Inch)
NUT 04	NUT 3/16
NUT 06	NUT 1/4
NUT 08	NUT 5/16
NUT 10	NUT 3/8
NUT 12	NUT 1/2

NUT

