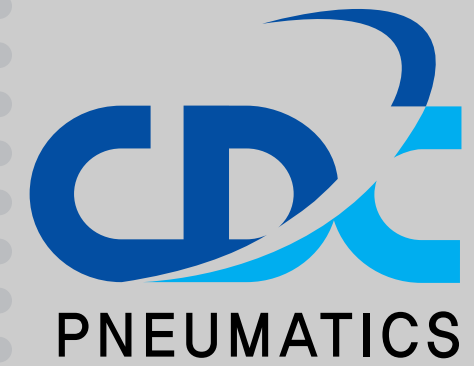


Fluidfit





OCT 2012 : Another milestone with a new building
 MAR 2010 : NSF 61 Certified for Fluidfit
 Established a joint venture name as CDC Fluidtech Europe S.R.L
 JUL 2009 : NSF 51 Certified for Fluidfit
 DEC 2002 : ISO 9001 : 2000 Certified
 Factory Renovation and renamed to “CDC PNEUMATICS”
 NOV 1983 : Established “Chumdan Coupler”

Contents	Page
ONE-TOUCH FITTINGS	6
COMPACT ONE-TOUCH FITTINGS	16
SPEED CONTROLLERS	20
SPEED CONTROLLER WITH PILOT CHECK VALVES	24
HAND VALVES / BALL VALVES	26
STOP FITTINGS	28
CHECK VALVES	30
TWO-TOUCH FITTINGS	32
SILENCERS	33
TUBES	34
AIR GUNS	36
OIL EJECTOR LINES	36
COUPLERS	37
TWO-TOUCH FITTINGS (BSBM)	40

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

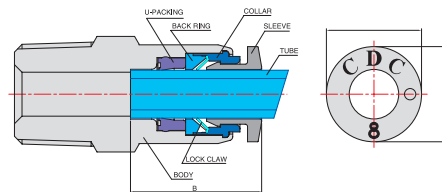
WARNING

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°C 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) (Unit/mm)							
Tube specifications	Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
Permissible tolerance	±0.1	±0.1	±0.1	±0.1	±0.15	±0.15	±0.15
▶ Tolerance of the OD by size (Inch) (Unit/mm)							
Tube specifications	Ø1/8	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2
Permissible tolerance	±0.15	±0.15 -0.1	±0.15	±0.1	+0.2 -0.1	±0.15	±0.15

Recommended Connection Torque (by thread)

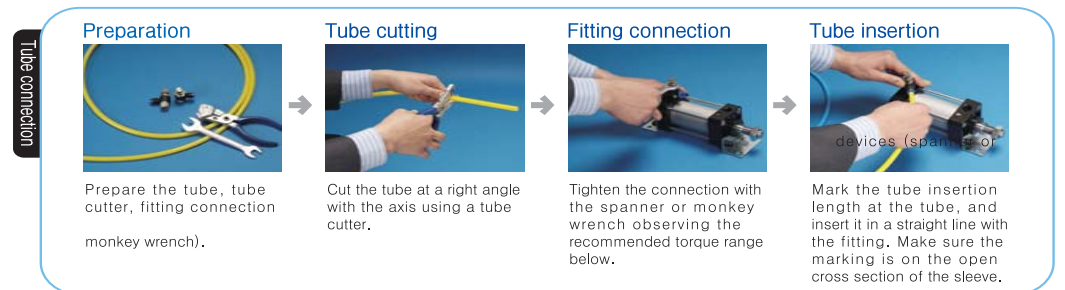
Thread type	Thread Size	Recommended torque
Metric Thread (mm)	M3×P0.5	0.7 Nm
	M5×P0.8	1.5 Nm
	M6×P1.0	2.3 Nm
Pipe Taper Thread (PT)	R1/8	7 Nm
	R1/4	12 Nm
	R3/8	22 Nm
	R1/2	28 Nm
Unified Thread(UNF)	No. 10-32 UNF	1.5 Nm
NPT Thread	NPT1/16	7 Nm
	NPT1/8	7 Nm
	NPT1/4	12 Nm
	NPT3/8	22 Nm
PFL-사	G 1/8	10 Nm
	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			
	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16	Ø3	Ø4	Ø6	
B	15.0	16.5	18.8	20.1	22.9	23.6	11.3	11.8	12.9	
Inch fittings										
Tube Insertion Length	Standard Type						Compact Type			
	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2	Ø1/8	Ø5/32	Ø1/4	
B	15.0	15.9	16.8	18.8	20.1	23.1	11.3	11.8	13.5	

▶ 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.



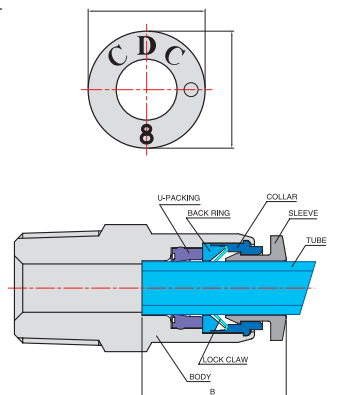
▶ Tube release from the fitting product

- 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	Standard Type						Compact Type			
	Ø4	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø3	Ø4	Ø6
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)										
Sleeve specification	Standard Type						Compact Type			
	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2	Ø1/8	Ø5/32	Ø1/4	
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
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.

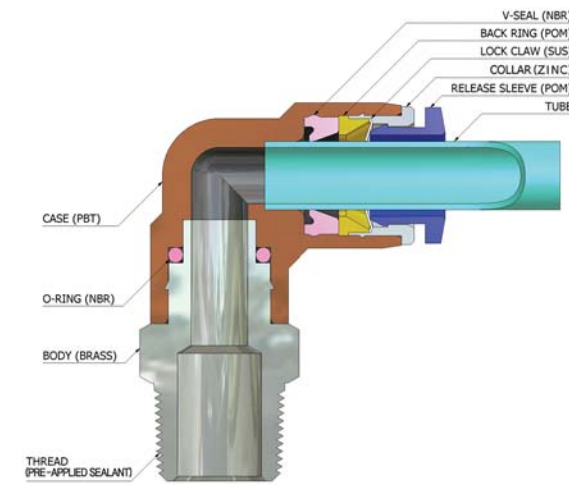
Features

- 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
- Speed Controller with Pilot check Valves
- Hand Valves
- Ball Valve
- Stop Fittings
- 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	Sleeve Color
	CODE	SIZE	METRIC THREAD	SIZE		
	04	Ø4	M5	M5×0.8	Nickel	Blue
	06	Ø6	M6	M6×1.0		
	08	Ø8	M12	M12×1.5		
	10	Ø10	M14	M14×1.5		
	12	Ø12	M16	M16×1.5		
	14	Ø14	M22	M15×1.5		
	16	Ø16	R(P.T) THREAD			
			CODE	SIZE		
			01	R1/8		
			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	SIZE	
	04	Ø4	M5	M5×0.8	Blue
	06	Ø6	M6	M6×1.0	
	08	Ø8	G(PF) THREAD		
	10	Ø10	CODE	SIZE	
	12	Ø12	G01	G1/8	
	14	Ø14	G02	G1/4	
	16	Ø16	G03	G3/8	
			G04	G1/2	

INCH - BSPT(R)

PC-1/4-01

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

INCH - NPT

PC-1/4-N1

OneTouch Fitting	Tube Dia		Thread Size		Sleeve Color
	CODE	SIZE	UNF THREAD	SIZE	
	5/32	Ø5/32	U	10-32UNF	Black
	3/16	Ø3/16	NPT THREAD		
	1/4	Ø1/4	CODE	SIZE	
	5/16	Ø5/16	N1	NPT1/8	
	3/8	Ø3/8	N2	NPT1/4	
	1/2	Ø1/2	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(M)	Tube(Metric)-Thread(G)	
PC 04-M5	PC 08-04	PC 1/4-01	PC 5/32-U	PC 5/16-N1	PC 06-M12	PC 04-G01	PC 12-G02	
PC 04-M6	PC 10-01	PC 1/4-02	PC 5/32-N1	PC 5/16-N2	PC 06-M16	PC 04-G02	PC 12-G03	
PC 04-01	PC 10-02	PC 1/4-03	PC 5/32-N2	PC 5/16-N3	PC 06-M22	PC 04-G03	PC 12-G04	
PC 04-02	PC 10-03	PC 5/16-01	PC 5/32-N3	PC 5/16-N4	PC 08-M12	PC 06-G01	PC 14-G03	
PC 04-03	PC 10-04	PC 5/16-02	PC 3/16-U	PC 3/8-N1	PC 08-M16	PC 06-G02	PC 14-G04	
PC 06-M5	PC 12-01	PC 5/16-03	PC 3/16-N1	PC 3/8-N2	PC 08-M22	PC 06-G03	PC 16-G03	
PC 06-M6	PC 12-02	PC 3/8-01	PC 3/16-N2	PC 3/8-N3	PC 10-M12	PC 08-G01	PC 16-G04	
PC 06-01	PC 12-03	PC 3/8-02	PC 3/16-N3	PC 3/8-N4	PC 10-M16	PC 08-G02		
PC 06-02	PC 12-04	PC 3/8-03	PC 1/4-U	PC 1/2-N1	PC 10-M22	PC 08-G03		
PC 06-03	PC 14-03	PC 3/8-04	PC 1/4-N1	PC 1/2-N2	PC 12-M12	PC 08-G04		
PC 06-04	PC 14-04	PC 1/2-02	PC 1/4-N2	PC 1/2-N3	PC 12-M14	PC 10-G01		
PC 08-01	PC 16-03	PC 1/2-03	PC 1/4-N3	PC 1/2-N4	PC 12-M16	PC 10-G02		
PC 08-02	PC 16-04	PC 1/2-04	PC 1/4-N4		PC 12-M22	PC 10-G03		
PC 08-03						PC 10-G04		

PC-G

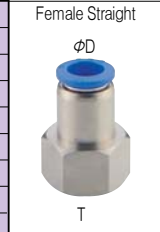


PCF



	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	POC 1/4-01	POC 5/32-U	POC 5/16-N1	POC 1/2-N4	
POC 04-M6	POC 08-01	POC 12-02	POC 1/4-02	POC 5/32-N1	POC 5/16-N2		
POC 04-01	POC 08-02	POC 12-03	POC 5/16-01	POC 5/32-N2	POC 5/16-N3		
POC 04-02	POC 08-03	POC 12-04	POC 5/16-02	POC 3/16-U	POC 3/8-N1		
POC 04-03	POC 08-04		POC 3/8-02	POC 3/16-N1	POC 3/8-N2		
POC 06-M5	POC 10-01		POC 3/8-03	POC 3/16-N2	POC 3/8-N3		
POC 06-M6	POC 10-02			POC 1/4-U	POC 3/8-N4		
POC 06-01	POC 10-03			POC 1/4-N1	POC 1/2-N2		
POC 06-02	POC 10-04			POC 1/4-N2	POC 1/2-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	PMF 04-G01	PMF10-G02	
PMF 04-02	PMF 10-01	PMF 3/16-N1	PMF 1/2-N2	PMF 04-G02	PMF10-G03	
PMF 04-03	PMF 10-02	PMF 3/16-N2	PMF 1/2-N3	PMF 04-G03	PMF10-G04	
PMF 06-01	PMF 10-03	PMF 1/4-N1	PMF 1/2-N4	PMF 06-G01	PMF12-G02	
PMF 06-02	PMF 10-04	PMF 1/4-N2		PMF 06-G02	PMF12-G03	
PMF 06-03	PMF 12-01	PMF 5/16-N1		PMF 06-G03	PMF12-G04	
PMF 08-01	PMF 12-02	PMF 5/16-N2		PMF 08-G01		
PMF 08-02	PMF 12-03	PMF 5/16-N3		PMF 08-G02		
PMF 08-03	PMF 12-04	PMF 3/8-N2		PMF 08-G03		

PMF-G



PL



	MODEL(φD-T)							
	Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(M)	Tube(Metric)-Thread(G)	
PL 04-M5	PL 08-04	PL 1/4-01	PL 5/32-U	PL 5/16-N1	PL 06-M12	PL 04-G01	PL 12-G02	
PL 04-M6	PL 10-01	PL 1/4-02	PL 5/32-N1	PL 5/16-N2	PL 06-M16	PL 04-G02	PL 12-G03	
PL 04-01	PL 10-02	PL 1/4-03	PL 5/32-N2	PL 5/16-N3	PL 06-M22	PL 04-G03	PL 12-G04	
PL 04-02	PL 10-03	PL 5/16-01	PL 3/16-U	PL 3/8-N1	PL 08-M12	PL 06-G01	PL 14-G03	
PL 04-03	PL 10-04	PL 5/16-02	PL 3/16-N1	PL 3/8-N2	PL 08-M16	PL 06-G02	PL 14-G04	
PL 06-M5	PL 12-01	PL 5/16-03	PL 3/16-N2	PL 3/8-N3	PL 08-M22	PL 06-G03	PL 16-G03	
PL 06-M6	PL 12-02	PL 3/8-01	PL 3/16-N3	PL 3/8-N4	PL 10-M12	PL 08-G01	PL 16-G04	
PL 06-01	PL 12-03	PL 3/8-02	PL 1/4-U	PL 3/8-N4	PL 10-M16	PL 08-G02		
PL 06-02	PL 12-04	PL 3/8-03	PL 1/4-N1	PL 1/2-N2	PL 10-M22	PL 08-G03		
PL 06-03	PL 14-03	PL 3/8-04	PL 1/4-N2	PL 1/2-N3	PL 12-M12	PL 08-G04		
PL 06-04	PL 14-04	PL 1/2-02	PL 1/4-N3	PL 1/2-N4	PL 12-M14	PL 10-G01		
PL 08-01	PL 16-03	PL 1/2-03			PL 12-M16	PL 10-G02		
PL 08-02	PL 16-04	PL 1/2-04			PL 12-M22	PL 10-G03		
PL 08-03						PL 10-G04		

PL-G

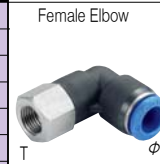


PLF



	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	PLL 1/4-01	PLL 5/32-U	PLL 1/4-N3	PLL 04-G01	PLL 08-G04		
PLL 04-M6	PLL 08-01	PLL 12-03	PLL 1/4-02	PLL 5/32-N1	PLL 5/16-N1	PLL 04-G02	PLL 10-G01		
PLL 04-01	PLL 08-02	PLL 12-04	PLL 5/16-01	PLL 5/32-N2	PLL 5/16-N2	PLL 04-G03	PLL 10-G02		
PLL 04-02	PLL 08-03		PLL 5/16-02	PLL 3/16-U	PLL 5/16-N3	PLL 06-G01	PLL 10-G03		
PLL 04-03	PLL 08-04		PLL 3/8-02	PLL 3/16-N1	PLL 3/8-N2	PLL 06-G02	PLL 10-G04		
PLL 06-M5	PLL 10-01		PLL 3/8-03	PLL 3/16-N2	PLL 3/8-N3	PLL 06-G03	PLL 12-G02		
PLL 06-M6	PLL 10-02			PLL 3/16-N3	PLL 3/8-N4	PLL 08-G01	PLL 12-G03		
PLL 06-01	PLL 10-03			PLL 1/4-U	PLL 1/2-N2	PLL 08-G02	PLL 12-G04		
PLL 06-02	PLL 10-04			PLL 1/4-N1	PLL 1/2-N3	PLL 08-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	MODEL(ϕ D-T)								PT-G							
	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(M)	Tube(Metric)-Thread(G)	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(M)	Tube(Metric)-Thread(G)					
Male Branch Tee	PT 04-M5	PT 08-03	PT 1/4-01	PT 5/32-U	PT 5/16-N3	PT 06-M12	PT 04-G01	PT 10-G04	PT 04-M6	PT 08-04	PT 1/4-02	PT 5/32-N1	PT 5/16-N4	PT 06-M16	PT 04-G02	PT 12-G02
	PT 04-01	PT 10-01	PT 1/4-03	PT 5/32-N2	PT 3/8-N1	PT 06-M22	PT 04-G03	PT 12-G03	PT 04-02	PT 10-02	PT 5/16-01	PT 3/16-U	PT 3/8-N2	PT 08-M12	PT 06-G01	PT 12-G04
	PT 04-03	PT 10-03	PT 5/16-02	PT 3/16-N1	PT 3/8-N3	PT 08-M16	PT 06-G02	PT 16-G03	PT 06-M5	PT 10-04	PT 5/16-03	PT 3/16-N2	PT 3/8-N4	PT 08-M22	PT 06-G03	PT 16-G04
	PT 06-M6	PT 12-01	PT 3/8-01	PT 3/16-N3	PT 1/2-N2	PT 10-M12	PT 08-G01		PT 06-01	PT 12-02	PT 3/8-02	PT 1/4-U	PT 1/2-N3	PT 10-M16	PT 08-G02	
	PT 06-02	PT 12-03	PT 3/8-03	PT 1/4-N1	PT 1/2-N4	PT 10-M22	PT 08-G03		PT 06-03	PT 12-04	PT 3/8-04	PT 1/4-N2		PT 12-M12	PT 08-G04	
Swivel Rotating Type	PT 06-04	PT 16-03	PT 1/2-02	PT 1/4-N3		PT 12-M14	PT 10-G01		PT 08-01	PT 16-04	PT 1/2-03	PT 5/16-N1		PT 12-M16	PT 10-G02	
	PT 08-02		PT 1/2-04	PT 5/16-N2		PT 12-M22	PT 10-G03									

PTF	MODEL(ϕ D-T)						PTF-G
	Tube(Metric)-Thread(Rc)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)	Tube(Metric)-Thread(Rc)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)	
Female Branch Tee	PTF 04-M5	PTF 08-02	PTF 5/32-U	PTF 5/16-N1	PTF 04-G01	PTF 10-G02	Female Branch Tee
	PTF 04-01	PTF 08-04	PTF 5/32-N2	PTF 5/16-N3	PTF 06-G01	PTF 10-G04	
	PTF 04-02	PTF 10-01	PTF 3/16-U	PTF 3/8-N2	PTF 06-G02	PTF 12-G02	
	PTF 06-M5	PTF 10-02	PTF 3/16-N1	PTF 3/8-N3	PTF 06-G03	PTF 12-G03	
	PTF 06-M6	PTF 10-03	PTF 3/16-N2	PTF 3/8-N4	PTF 08-G01	PTF 12-G04	
	PTF 06-01	PTF 10-04	PTF 1/4-U	PTF 1/2-N3	PTF 08-G02		
	PTF 06-02	PTF 12-02	PTF 1/4-N1	PTF 1/2-N4	PTF 08-G03		
	PTF 06-03	PTF 12-03	PTF 1/4-N2		PTF 08-G04		
Swivel Rotating Type	PTF 08-01	PTF 12-04	PTF 1/4-N3		PTF 10-G01		

PST	MODEL(ϕ D-T)								PST-G							
	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(M)	Tube(Metric)-Thread(G)	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(M)	Tube(Metric)-Thread(G)					
Male Run Tee	PST 04-M5	PST 08-02	PST 1/4-01	PST 5/32-U	PST 5/16-N2	PST 06-M12	PST 04-G01	PST 10-G04	PST 04-M6	PST 08-03	PST 1/4-02	PST 5/32-N1	PST 5/16-N3	PST 06-M16	PST 04-G02	PST 12-G02
	PST 04-01	PST 08-04	PST 1/4-03	PST 5/32-N2	PST 5/16-N4	PST 06-M22	PST 04-G03	PST 12-G03	PST 04-02	PST 10-01	PST 5/16-01	PST 3/16-U	PST 3/8-N1	PST 08-M12	PST 06-G01	PST 12-G04
	PST 04-03	PST 10-02	PST 5/16-02	PST 3/16-N1	PST 3/8-N2	PST 08-M16	PST 06-G02		PST 06-M5	PST 10-03	PST 5/16-03	PST 3/16-N2	PST 3/8-N3	PST 08-M22	PST 06-G03	
	PST 06-M6	PST 10-04	PST 3/8-02	PST 3/16-N3	PST 3/8-N4	PST 10-M12	PST 08-G01		PST 06-M6	PST 10-04	PST 3/8-03	PST 3/16-N4	PST 3/8-N4	PST 10-M16	PST 08-G02	
	PST 06-01	PST 12-01	PST 3/8-03	PST 1/4-U	PST 1/2-N2	PST 10-M16	PST 08-G02		PST 06-02	PST 12-02	PST 3/8-04	PST 1/4-N1	PST 1/2-N3	PST 10-M22	PST 08-G03	
	PST 06-02	PST 12-03	PST 3/8-04	PST 1/4-N2	PST 1/2-N4	PST 12-M12	PST 08-G04		PST 06-03	PST 12-03	PST 1/2-02	PST 1/4-N3		PST 12-M14	PST 10-G01	
	PST 06-04	PST 12-04	PST 1/2-03	PST 1/4-N3		PST 12-M16	PST 10-G02		PST 08-01		PST 1/2-04	PST 5/16-N1		PST 12-M22	PST 10-G03	
Swivel Rotating Type																

PWT	MODEL(ϕ D-T)							PWT-G
	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	
Male Y	PWT 04-M5	PWT 08-02	PWT 1/4-01	PWT 5/32-U	PWT 5/16-N2	PWT 04-G01	PWT 10-G02	Male Y
	PWT 04-M6	PWT 08-03	PWT 1/4-02	PWT 5/32-N1	PWT 5/16-N3	PWT 04-G02	PWT 10-G03	
	PWT 04-01	PWT 08-04	PWT 1/4-03	PWT 5/32-N2	PWT 5/16-N4	PWT 04-G03	PWT 10-G04	
	PWT 04-02	PWT 10-01	PWT 5/16-01	PWT 3/16-U	PWT 3/8-N1	PWT 06-G01	PWT 12-G02	
	PWT 04-03	PWT 10-02	PWT 5/16-02	PWT 3/16-N1	PWT 3/8-N2	PWT 06-G02	PWT 12-G03	
	PWT 06-M5	PWT 10-03	PWT 5/16-03	PWT 3/16-N2	PWT 3/8-N3	PWT 06-G03	PWT 12-G04	
	PWT 06-M6	PWT 10-04	PWT 3/8-02	PWT 3/16-N3	PWT 3/8-N4	PWT 06-G04		
	PWT 06-01	PWT 12-01	PWT 3/8-03	PWT 1/4-U	PWT 1/2-N2	PWT 08-G01		
	PWT 06-02	PWT 12-02	PWT 3/8-04	PWT 1/4-N1	PWT 1/2-N3	PWT 08-G02		
	PWT 06-03	PWT 12-03	PWT 3/8-04	PWT 1/4-N2	PWT 1/2-N4	PWT 08-G03		
	PWT 06-04	PWT 12-04	PWT 1/2-03	PWT 1/4-N3		PWT 08-G04		
Swivel Rotating Type	PWT 08-01		PWT 1/2-04	PWT 5/16-N1		PWT 10-G01		

PLM	MODEL(ϕ D)	
	Tube(Metric)	Tube(Inch)
Bulkhead Union Elbow	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	MODEL(ϕ D-T)		PXT-G
	Tube(Metric)-Thread(R)	Tube(Metric)-Thread(G)	
Male Double Y	PXT 04-01	PXT 04-G01	Male Double Y
	PXT 04-02	PXT 04-G02	
	PXT 06-01	PXT 06-G01	
	PXT 06-02	PXT 06-G02	

PKD	MODEL(ϕ D1 - ϕ D2-T)			PKD-G	CAS	MODEL(ϕ D)	
	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)			Tube(Metric)	Tube(Inch)
Male Reducer Triple Branch	PKD 0604-01	PKD 3/16-5/32-N1	PKD 0604-G01	Male Reducer Triple Branch	CAS 04	CAS 5/32	
	PKD 0604-02	PKD 1/4-5/32-N1	PKD 0804-G01		CAS 06	CAS 3/16	
	PKD 0804-01	PKD 5/16-5/32-N2	PKD 0804-G02		CAS 08	CAS 1/4	
	PKD 0804-02	PKD 5/16-3/16-N2	PKD 0806-G01		CAS 10	CAS 5/16	
	PKD 0806-01	PKD 5/16-1/4-N2	PKD 0806-G02		CAS 12	CAS 3/8	
	PKD 0806-02	PKD 3/8-1/4-N3	PKD 1006-G02			CAS 1/2	
	PKD 1006-02	PKD 3/8-5/16-N3	PKD 1006-G03				
	PKD 1006-03		PKD 1008-G02				
Swivel Rotating Type	PKD 1008-02		PKD 1008-G03				
	PKD 1008-03						

PH	MODEL(ϕ D-T)						PH-G	
	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)
Male Banjo	PH 03-M5	PH 08-01	PH 1/4-M5	PH 1/8-U	PH 1/4-N3	PH 04-G01	PH 10-G04	Male Banjo
	PH 04-M5	PH 08-02	PH 1/4-01	PH 5/32-U	PH 5/16-N1	PH 04-G02	PH 12-G03	
	PH 04-M6	PH 08-03	PH 1/4-02	PH 5/32-N1	PH 5/16-N2	PH 06-G01	PH 12-G04	
	PH 04-01	PH 08-04	PH 5/16-01	PH 5/32-N2	PH 5/16-N3	PH 06-G02		
	PH 04-02	PH 10-01	PH 5/16-02	PH 3/16-U	PH 5/16-N4	PH 06-G03		
	PH 06-M5	PH 10-02	PH 5/16-03	PH 3/16-N1	PH 3/8-N2	PH 08-G01		
	PH 06-M6	PH 10-03	PH 3/8-02	PH 3/16-N2	PH 3/8-N3	PH 08-G02		
	PH 06-01	PH 10-04	PH 3/8-03	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		
Swivel Rotating Type	PH 06-04	PH 12-04		PH 1/4-N2	PH 1/2-N4	PH 10-G03		

PHF	MODEL(ϕ D-T)						PHF-G	
	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(R)	Tube(Inch)-Thread(NPT)	Tube(Metric)-Thread(G)	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)
Female Banjo	PHF 03-M5	PHF 08-01	PHF 1/4-M5	PHF 1/8-U	PHF 5/16-N1	PHF 04-G01	PHF 08-G04	Female Banjo
	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	PHF 1/2-N2	PHF 06-G04	PHF 12-G04	
	PHF 06-02	PHF 12-02		PHF 1/4-N1	PHF 1/2-N3	PHF 08-G01		
	PHF 06-03	PHF 12-03		PHF 1/4-N2	PHF 1/2-N4	PHF 08-G02		
Swivel Rotating Type	PHF 06-04	PHF 12-04		PHF 1/4-N3		PHF 08-G03		

PHL(2)	MODEL(ϕ D-T)				PHL-G(2)
	Tube(Metric)-Thread(R)	Tube(Metric)-Thread(G)	Tube(Metric)-Thread(R)	Tube(Metric)-Thread(G)	
Double Universal Elbow	PHL 04-01(2)	PHL 08-03(2)	PHL 04-G01(2)	PHL 08-G03(2)	Double Universal Elbow
	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(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	PUC 5/32
PUC 06	PUC 3/16
PUC 08	PUC 1/4
PUC 10	PUC 5/16
PUC 12	PUC 3/8
PUC 14	PUC 1/2
PUC 16	

PUL



MODEL(φD)	
Tube(Metric)	Tube(Inch)
PUL 04	PUL 5/32
PUL 06	PUL 3/16
PUL 08	PUL 1/4
PUL 10	PUL 5/16
PUL 12	PUL 3/8
PUL 14	PUL 1/2
PUL 16	

PUT




MODEL(φD)	
Tube(Metric)	Tube(Inch)
PUT 04	PUT 5/32
PUT 06	PUT 3/16
PUT 08	PUT 1/4
PUT 10	PUT 5/16
PUT 12	PUT 3/8
PUT 14	PUT 1/2
PUT 16	

PY




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

PW
Reducer Y




MODEL($\phi D1 - \phi D2$)	
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

PG
Reducer




MODEL($\phi D1 - \phi D2$)	
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	

PGT
Reducer Tee




MODEL($\phi D1 - \phi D2$)	
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	

PLJ
Plug-In Elbow



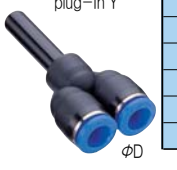
MODEL(ϕD)	
Tube(Metric)	Tube(Inch)
PLJ 04	PLJ 5/32
PLJ 06	PLJ 3/16
PLJ 08	PLJ 1/4
PLJ 10	PLJ 5/16
PLJ 12	PLJ 3/8
PLJ 16	PLJ 1/2
PLJ 0604	PLJ 1/4-5/32
PLJ 0806	PLJ 5/16-1/4
PLJ 1008	PLJ 3/8-1/4
PLJ 1210	PLJ 3/8-5/16

PGJ
Plug-In Reducer




MODEL($\phi D1 - \phi D2$)	
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

PYJ
plug-in Y



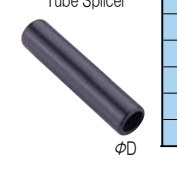
MODEL(ϕD)	
Tube(Metric)	Tube(Inch)
PYJ 04	PYJ5/32
PYJ 06	PYJ3/16
PYJ 08	PYJ1/4
PYJ 10	PYJ5/16
PYJ 12	PYJ3/8
	PYJ1/2

PWJ
Plug-In Reducer Y




MODEL($\phi D1 - \phi D2$)	
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

PIJ
Tube Splicer




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

PCP
Coupler Plug




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

PSJ
Plug-In Run Tee



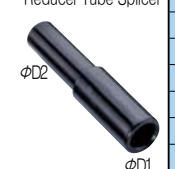
MODEL($\phi D1 - \phi D2$)	
Tube(Metric)	Tube(Inch)
PSJ 04	PSJ 5/32
PSJ 06	PSJ 3/16
PSJ 08	PSJ 1/4
PSJ 10	PSJ 5/16
PSJ 12	PSJ 3/8
PSJ 0604	PSJ 1/2
PSJ 0806	PSJ 1/4-5/32
PSJ 1008	PSJ 5/16-1/4
PSJ 1210	PSJ 3/8-1/4
	PSJ 3/8-5/16
	PSJ 1/2-3/8

PTJ
Plug-In Branch Tee




MODEL($\phi D1 - \phi D2$)	
Tube(Metric)	Tube(Inch)
PTJ 04	PTJ 5/32
PTJ 06	PTJ 3/16
PTJ 08	PTJ 1/4
PTJ 10	PTJ 5/16
PTJ 12	PTJ 3/8
PTJ 0604	PTJ 1/2
PTJ 0806	PTJ 1/4-5/32
PTJ 1008	PTJ 5/16-1/4
PTJ 1210	PTJ 3/8-1/4
	PTJ 3/8-5/16
	PTJ 1/2-3/8

PIG
Reducer Tube Splicer



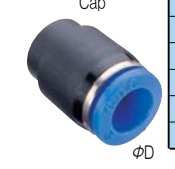
MODEL($\phi D1 - \phi D2$)	
Tube(Metric)	Tube(Inch)
PIG 0604	PIG 3/16-5/32
PIG 0804	PIG 1/4-5/32
PIG 0806	PIG 1/4-3/16
PIG 1006	PIG 5/16-1/4
PIG 1008	PIG 3/8-1/4
PIG 1208	PIG 3/8-5/16
PIG 1210	PIG 1/2-3/8
PIG 1612	

PP
Plug




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

PPF
Cap




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

PZA
Union Cross




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

PKG
Reducer Triple Branch Union




MODEL($\phi D1 - \phi D2$)	
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

PXG
Reducer Double Y




MODEL($\phi D1 - \phi D2$)	
Tube(Metric)	Tube(Inch)
PXG 06 04	
PXG 08 06	

PXJ
Plug-In Reducer Double Y



MODEL($\phi D1 - \phi D2$)	
Tube(Metric)	Tube(Inch)
PXJ 06 04	
PXJ 08 06	

PKJ
Plug-In Reducer Triple Branch



MODEL($\phi D1 - \phi D2$)	
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.

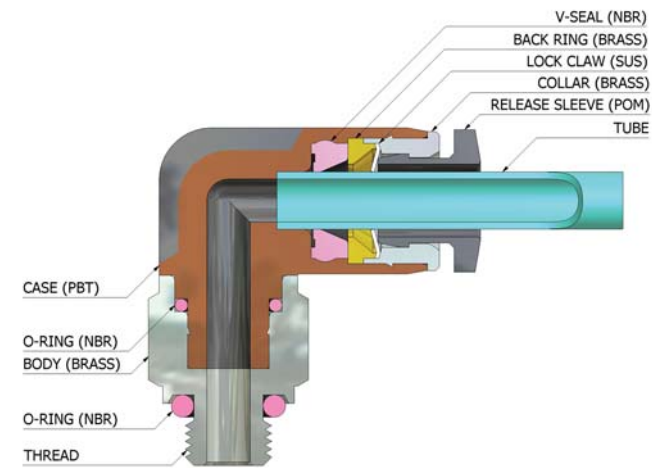
Features

- 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)

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

METRIC - BSPP(G)

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

INCH - BSPT(R)

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

INCH - NPT

Compact OneTouch Fitting	Tube Dia		Thread Size		Sleeve Color
	CODE	SIZE	UNF THREAD		
	1/8	Ø1/8	U	10-32UNF	Black
	5/32	Ø5/32			
	1/4	Ø1/4			
			NPT THREAD		
			NO	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 Male Straight	MODEL(ϕ D-T)							PC-G-C Male Straight
	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					

PCF-C Female Straight	MODEL(ϕ D-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 Round Male Straight	MODEL(ϕ D-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 Bulkhead Union	MODEL(ϕ D)
	Tube(Metric)
	PMM-03C
	PMM-04C
	PMM-06C

PL-C Male Elbow	MODEL(ϕ D-T)							PL-G-C Male Elbow
	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			

PLL-C Extended Male Elbow	MODEL(ϕ D-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 Male Branch Tee	MODEL(ϕ D-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 Male Run Tee	MODEL(ϕ D-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 Union Straight	MODEL(ϕ D)	
	Tube(Metric)	Tube(Inch)
	PUC 03C	PUC 1/8C
	PUC 04C	PUC 5/32C
	PUC 06C	PUC 1/4C

PUL-C Union Elbow	MODEL(ϕ D)	
	Tube(Metric)	Tube(Inch)
	PUL 03C	PUL 1/8C
	PUL 04C	PUL 5/32C
	PUL 06C	PUL 1/4C

PUT-C Union Tee	MODEL(ϕ D)	
	Tube(Metric)	Tube(Inch)
	PUT 03C	PUT 1/8C
	PUT 04C	PUT 5/32C
	PUT 06C	PUT 1/4C

PG-C Reducer	MODEL(ϕ D1 - ϕ D2)	
	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 Union Y	MODEL(ϕ D)	
	Tube(Metric)	Tube(Inch)
	PY 03C	PY 1/8C
	PY 04C	PY 5/32C
	PY 06C	PY 1/4C

PW-C Reducer Y	MODEL(ϕ D1 - ϕ D2)	
	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 Plug-In Reducer	MODEL(ϕ D1 - ϕ D2)	
	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.

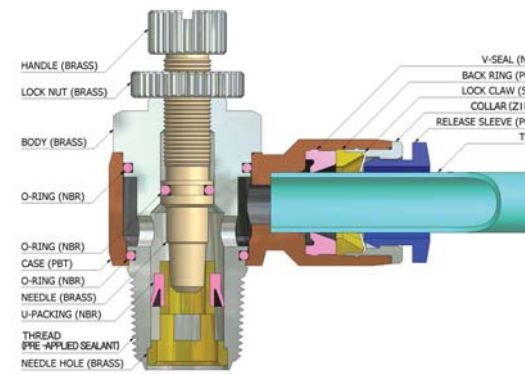
Features

- 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 speed control with drive tools in limited and crowded spaces. (NSC(D) and NSC(DC) types)
- Miniaturized products occupy small space attaching to devices.

Specifications

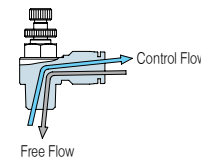
- Fluid type : Air (No other gases or liquids)
- Working pressure: 14.2~150PSI / 1~9.9Kgf/cm² (0~990kPa)
- Working temperature : 32~140° F / 0~60° C
- Applicable Tube: Polyurethane and Nylon

Structural Diagram



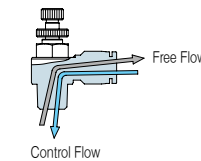
Applied example

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	CODE	
	04	Ø4	M5	M5×0.8	METER-OUT
	06	Ø6	M5	M5×0.8	METER-IN
	08	Ø8	R(PT) THREAD		METER-IN
	10	Ø10	CODE	SIZE	CODE
	12	Ø12	01	R1/8	MO
			02	R1/4	MI
			03	R3/8	MI
			04	R1/2	MI

METRIC - BSPP(G)

NSC 06-G01

Speed Controllers	Tube Dia		Thread Size		Sleeve Color
	CODE	SIZE	G(PF) THREAD	CODE	
	04	Ø4	G01	G1/8	MO
	06	Ø6	G01	G1/8	MI
	08	Ø8	G02	G1/4	MI
	10	Ø10	G03	G3/8	MI
	12	Ø12	G04	G1/2	MI

INCH - BSPT(R)

NSC 1/4-01

Speed Controllers	Tube Dia		Thread Size		Control Method
	CODE	SIZE	METRIC THREAD	CODE	
	5/32	Ø5/32	M5	M5×0.8	METER-OUT
	3/16	Ø3/16	M5	M5×0.8	METER-IN
	1/4	Ø1/4	R(PT) THREAD		METER-IN
	5/16	Ø5/16	CODE	SIZE	CODE
	3/8	Ø3/8	01	R1/8	MO
	1/2	Ø1/2	02	R1/4	MI
			03	R3/8	MI
			04	R1/2	MI

INCH - NPT

NSC 1/4 - N1 - MO

Speed Controllers	Tube Dia		Thread Size		Control Method
	CODE	SIZE	UNF THREAD	CODE	
	5/32	Ø5/32	U	10-32UNF	METER-OUT
	3/16	Ø3/16	U	10-32UNF	METER-IN
	1/4	Ø1/4	NPT THREAD		METER-IN
	5/16	Ø5/16	CODE	SIZE	CODE
	3/8	Ø3/8	N1	NPT1/8	MO
	1/2	Ø1/2	N2	NPT1/4	MI
			N3	NPT3/8	MI
			N4	NPT1/2	MI

Speed Controllers

NSC



MODEL (φD-T)	Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE
Elbow	NSC 03-M5	NSC 08-03	NSC1/4-M5	NSC1/8-U	NSC1/4-N3	NSC04-G01	NSC10-G02	
	NSC 04-M5	NSC 08-04	NSC1/4-01	NSC5/32-U	NSC5/16-N1	NSC04-G02	NSC10-G03	
	NSC 04-01	NSC 10-01	NSC1/4-02	NSC5/32-N1	NSC5/16-N2	NSC06-G01	NSC10-G04	
	NSC 04-02	NSC 10-02	NSC5/16-01	NSC5/32-N2	NSC5/16-N3	NSC06-G02	NSC12-G02	
	NSC 06-M5	NSC 10-03	NSC5/16-02	NSC3/16-U	NSC5/16-N4	NSC06-G03	NSC12-G03	
	NSC 06-01	NSC 10-04	NSC5/16-03	NSC3/16-N1	NSC3/8-N2	NSC06-G04	NSC12-G04	
	NSC 06-02	NSC 12-02	NSC3/8-02	NSC3/16-N2	NSC3/8-N3	NSC08-G01		
	NSC 06-03	NSC 12-03	NSC3/8-03	NSC3/16-N3	NSC3/8-N4	NSC08-G02		
Swivel rotating type	NSC 06-04	NSC 12-04		NSC1/4-U	NSC1/2-N2	NSC08-G03		
	NSC 08-01			NSC1/4-N1	NSC1/2-N3	NSC08-G04		
	NSC 08-02			NSC1/4-N2	NSC1/2-N4	NSC10-G01		

NSC-G



NSC (D)



MODEL (φD-T)	Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE
Elbow	NSC 03-M5(D)	NSC 08-03(D)	NSC1/4-M5(D)	NSC1/8-U(D)	NSC1/4-N3(D)	NSC04-G01(D)	NSC10-G02(D)	
	NSC 04-M5(D)	NSC 08-04(D)	NSC1/4-01(D)	NSC5/32-U(D)	NSC5/16-N1(D)	NSC04-G02(D)	NSC10-G03(D)	
	NSC 04-01(D)	NSC 10-01(D)	NSC1/4-02(D)	NSC5/32-N1(D)	NSC5/16-N2(D)	NSC06-G01(D)	NSC10-G04(D)	
	NSC 04-02(D)	NSC 10-02(D)	NSC5/16-01(D)	NSC5/32-N2(D)	NSC5/16-N3(D)	NSC06-G02(D)	NSC12-G02(D)	
	NSC 06-M5(D)	NSC 10-03(D)	NSC5/16-02(D)	NSC3/16-U(D)	NSC5/16-N4(D)	NSC06-G03(D)	NSC12-G03(D)	
	NSC 06-01(D)	NSC 10-04(D)	NSC5/16-03(D)	NSC3/16-N1(D)	NSC3/8-N2(D)	NSC06-G04(D)	NSC12-G04(D)	
	NSC 06-02(D)	NSC 12-02(D)	NSC3/8-02(D)	NSC3/16-N2(D)	NSC3/8-N3(D)	NSC08-G01(D)		
	NSC 06-03(D)	NSC 12-03(D)	NSC3/8-03(D)	NSC3/16-N3(D)	NSC3/8-N4(D)	NSC08-G02(D)		
Swivel rotating type	NSC 06-04(D)	NSC 12-04(D)		NSC1/4-U(D)	NSC1/2-N3(D)	NSC08-G03(D)		
	NSC 08-01(D)			NSC1/4-N1(D)	NSC1/2-N4(D)	NSC08-G04(D)		
	NSC 08-02(D)			NSC1/4-N2(D)		NSC10-G01(D)		

NSC-G (D)

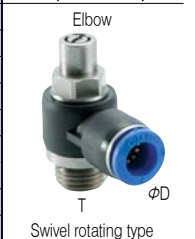


NSC (DC)



MODEL (φD-T)	Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE
Elbow	NSC 03-M5(DC)	NSC 08-03(DC)	NSC1/4-M5(DC)	NSC1/8-U(DC)	NSC1/4-N3(DC)	NSC04-G01(DC)	NSC10-G02(DC)	
	NSC 04-M5(DC)	NSC 08-04(DC)	NSC1/4-01(DC)	NSC5/32-U(DC)	NSC5/16-N1(DC)	NSC04-G02(DC)	NSC10-G03(DC)	
	NSC 04-01(DC)	NSC 10-01(DC)	NSC1/4-02(DC)	NSC5/32-N1(DC)	NSC5/16-N2(DC)	NSC06-G01(DC)	NSC10-G04(DC)	
	NSC 04-02(DC)	NSC 10-02(DC)	NSC5/16-01(DC)	NSC5/32-N2(DC)	NSC5/16-N3(DC)	NSC06-G02(DC)	NSC12-G02(DC)	
	NSC 06-M5(DC)	NSC 10-03(DC)	NSC5/16-02(DC)	NSC3/16-U(DC)	NSC5/16-N4(DC)	NSC06-G03(DC)	NSC12-G03(DC)	
	NSC 06-01(DC)	NSC 10-04(DC)	NSC5/16-03(DC)	NSC3/16-N1(DC)	NSC3/8-N2(DC)	NSC06-G04(DC)	NSC12-G04(DC)	
	NSC 06-02(DC)	NSC 12-02(DC)	NSC3/8-02(DC)	NSC3/16-N2(DC)	NSC3/8-N3(DC)	NSC08-G01(DC)		
	NSC 06-03(DC)	NSC 12-03(DC)	NSC3/8-03(DC)	NSC3/16-N3(DC)	NSC3/8-N4(DC)	NSC08-G02(DC)		
Swivel rotating type	NSC 06-04(DC)	NSC 12-04(DC)		NSC1/4-U(DC)	NSC1/2-N3(DC)	NSC08-G03(DC)		
	NSC 08-01(DC)			NSC1/4-N1(DC)	NSC1/2-N4(DC)	NSC08-G04(DC)		
	NSC 08-02(DC)			NSC1/4-N2(DC)		NSC10-G01(DC)		

NSC-G (DC)



NSS



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

NSS-G



NSS (D)



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 5/32-U(D)	NSS 5/16-N1(D)	NSS 04-G01(D)	NSS 10-G02(D)
NSS 04-01(D)	NSS 08-04(D)	NSS 1/4-01(D)	NSS 5/32-N1(D)	NSS 5/16-N2(D)	NSS 04-G02(D)	NSS 10-G03(D)
NSS 04-02(D)	NSS 10-02(D)	NSS 1/4-02(D)	NSS 5/32-N2(D)	NSS 5/16-N3(D)	NSS 06-G01(D)	NSS 10-G04(D)
NSS 06-M5(D)	NSS 10-03(D)	NSS 5/16-01(D)	NSS 3/16-U(D)	NSS 5/16-N4(D)	NSS 06-G02(D)	NSS 12-G02(D)
NSS 06-01(D)	NSS 10-04(D)	NSS 5/16-02(D)	NSS 3/16-N1(D)	NSS 3/8-N2(D)	NSS 06-G03(D)	NSS 12-G03(D)
NSS 06-02(D)	NSS 12-02(D)	NSS 5/16-03(D)	NSS 3/16-N2(D)	NSS 3/8-N3(D)	NSS 08-G01(D)	NSS 12-G04(D)
NSS 06-03(D)	NSS 12-03(D)	NSS 3/8-02(D)	NSS 1/4-U(D)	NSS 3/8-N4(D)	NSS 08-G02(D)	
NSS 08-01(D)	NSS 12-04(D)	NSS 3/8-03(D)	NSS 1/4-N1(D)	NSS 1/2-N3(D)	NSS 08-G03(D)	
NSS 08-02(D)			NSS 1/4-N2(D)	NSS 1/2-N4(D)	NSS 08-G04(D)	
			NSS 1/4-N3(D)			

NSS-G (D)



NSS (DC)



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 5/32-U(DC)	NSS 5/16-N1(DC)	NSS 04-G01(DC)	NSS 10-G02(DC)
NSS 04-01(DC)	NSS 08-04(DC)	NSS 1/4-01(DC)	NSS 5/32-N1(DC)	NSS 5/16-N2(DC)	NSS 04-G02(DC)	NSS 10-G03(DC)
NSS 04-02(DC)	NSS 10-02(DC)	NSS 1/4-02(DC)	NSS 5/32-N2(DC)	NSS 5/16-N3(DC)	NSS 06-G01(DC)	NSS 10-G04(DC)
NSS 06-M5(DC)	NSS 10-03(DC)	NSS 5/16-01(DC)	NSS 3/16-U(DC)	NSS 5/16-N4(DC)	NSS 06-G02(DC)	NSS 12-G02(DC)
NSS 06-01(DC)	NSS 10-04(DC)	NSS 5/16-02(DC)	NSS 3/16-N1(DC)	NSS 3/8-N2(DC)	NSS 06-G03(DC)	NSS 12-G03(DC)
NSS 06-02(DC)	NSS 12-02(DC)	NSS 5/16-03(DC)	NSS 3/16-N2(DC)	NSS 3/8-N3(DC)	NSS 08-G01(DC)	NSS 12-G04(DC)
NSS 06-03(DC)	NSS 12-03(DC)	NSS 3/8-02(DC)	NSS 1/4-U(DC)	NSS 3/8-N4(DC)	NSS 08-G02(DC)	
NSS 08-01(DC)	NSS 12-04(DC)	NSS 3/8-03(DC)	NSS 1/4-N1(DC)	NSS 1/2-N3(DC)	NSS 08-G03(DC)	
NSS 08-02(DC)			NSS 1/4-N2(DC)	NSS 1/2-N4(DC)	NSS 08-G04(DC)	
			NSS 1/4-N3(DC)			

NSS-G (DC)



NSF



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



Applications

- Panel-mounting type of speed controller

Features

- Easy installation and maintenance with a hexagonal nut.
- Accurate and constant speed control

NEW PRODUCTS
NSFB



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



Speed Controllers / Elbow type (Metal Body)

Applications

- Speed controller with metal body

Features

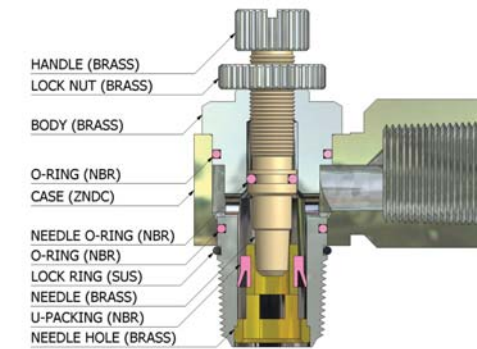
- cost saving and minimizing the piping labor
- 360 swivel type
- Accurate and constant speed control

NEW PRODUCTS
NSCF



MODEL(T)
Thread(R)
NSCF 01
NSCF 02
NSCF 03
NSCF 04

Structural Diagram



Speed Controller with Pilot Check Valves

Speed Controller with Pilot Check Valves

Applications

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

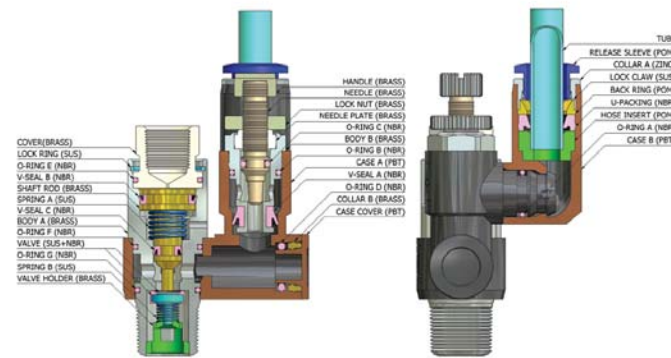
Features

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

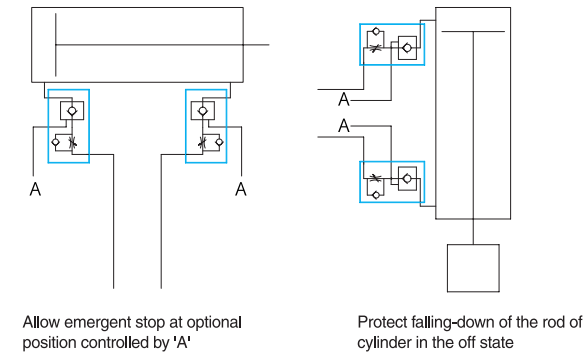
Specifications

- Fluid type : Air (No other gases or liquids)
- Working pressure : 14.2~150PSI / 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

Structural Diagram



Applied example



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	

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

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.

Hand / Hand Slide Valves / Ball Valves

Hand Valves / Hand Slide Valves

Applications

- Used for switching compressed air.

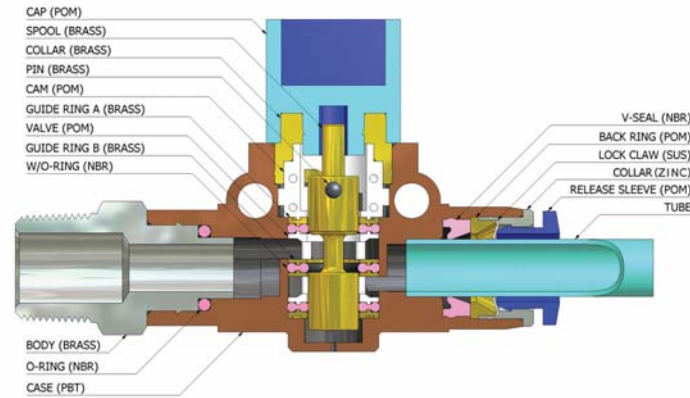
Features

- 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.

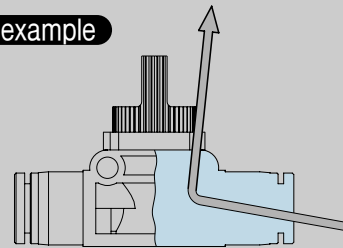
Specifications

Fluid type : Air (No other gases or liquids)
 Working pressure : 0~150PSI / 0~9.9Kg/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



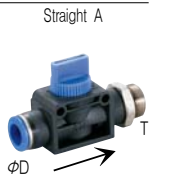
- To insert the tube into the fitting, insert it fully to the end, and for release, block the compressed air and push the sleeve gently to pull the tube out.
- Be sure to select the product according to your needs as hand valves discharge the remaining air using a 3-way method so that leakage may occur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

HVC



MODEL (φD-T)	Tube (Metric)-Thread (R)		Tube (Inch)-Thread (NPT)		Tube (Metric)-Thread (G)	
	Tube (Metric)	Thread (R)	Tube (Inch)	Thread (NPT)	Tube (Metric)	Thread (G)
Straight A	HVC 06-01	HVC 10-03	HVC1/4-N1	HVC3/8-N3	HVC06-G01	HVC10-G03
	HVC 06-02	HVC 10-04	HVC1/4-N2	HVC3/8-N4	HVC06-G02	HVC10-G04
	HVC 06-03	HVC 12-02	HVC1/4-N3	HVC1/2-N2	HVC06-G03	HVC12-G02
	HVC 08-01	HVC 12-03	HVC5/16-N1	HVC1/2-N3	HVC08-G01	HVC12-G03
	HVC 08-02	HVC 12-04	HVC5/16-N2	HVC1/2-N4	HVC08-G02	HVC12-G04
	HVC 08-03		HVC5/16-N3		HVC08-G03	
	HVC 10-02		HVC3/8-N2		HVC10-G02	

HVC-G

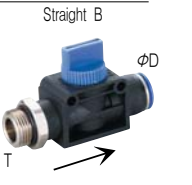


HVF



MODEL (T-φD)	Thread (R)-Tube (Metric)		Thread (NPT)-Tube (Inch)		Thread (G)-Tube (Metric)	
	Thread (R)	Tube (Metric)	Thread (NPT)	Tube (Inch)	Thread (G)	Tube (Metric)
Straight B	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

HSV



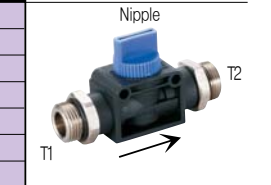
MODEL (T)	
Thread (R)	
HSV M5	
HSV 01	
HSV 02	
HSV 03	
HSV 04	
HSV 06	

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



Product Code System

METRIC - BSPT(R)

HVC 06-01

HAND VALVE	Tube Dia		Thread Size	
	CODE	φD	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
	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
	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.

Ball Valves SHUT-OFF VALVE

Applications

- On-Off valve to supply the compressed air or fluid.
- Suitable for air and water

Features

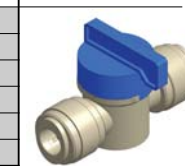
- Compact size and convenient to use in a narrow space
- Designed full bore and maximum flow rate

HBVU

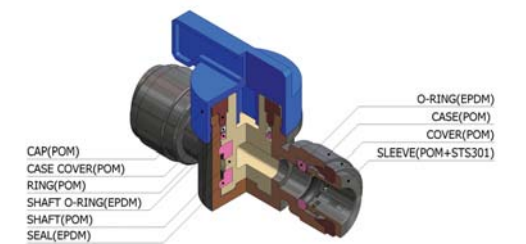


MODEL (φD)	
Tube (Metric)	Tube (Inch)
HBVU 0606	HBVU 1/4-1/4
HBVU 0808	HBVU 5/16-5/16
HBVU 1010	HBVU 3/8-3/8
HBVU 1212	HBVU 1/2-1/2

HBVU



Structural Diagram



Applications

- Used in the place where pneumatic piping frequently changes.

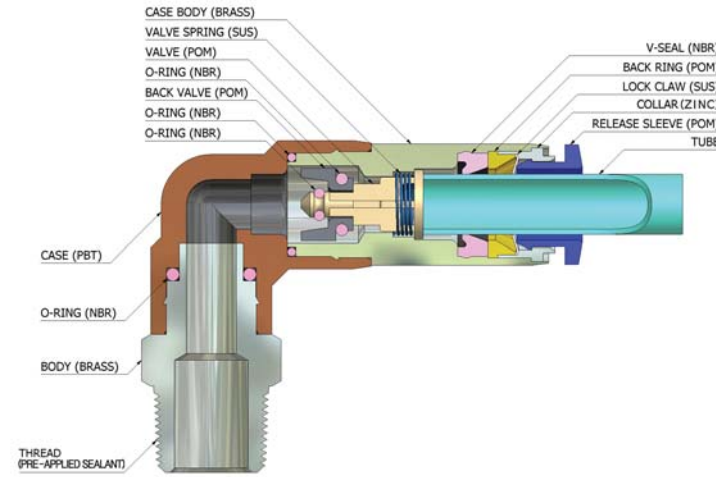
Features

- 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.

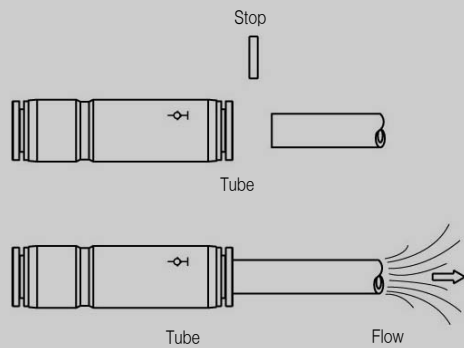
Specifications

- 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



Control System



Product Code System

METRIC - BSPT(R)

STOP FITTING **SPC 06-01**

Tube Dia		Thread Size	
CODE	φD	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)

STOP FITTING **SPC 06-G01**

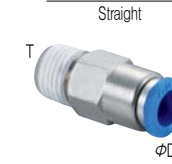
Tube Dia		Thread Size	
CODE	φD	CODE	SIZE
04	φ4	G01	G1/8
06	φ6	G02	G1/4
08	φ8	G03	G3/8
10	φ10	G04	G1/2
12	φ12		

INCH - NPT

STOP FITTING **SPC 1/4-N1**

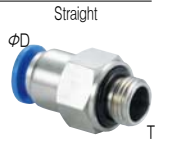
Tube Dia		Thread Size	
CODE	ØD	CODE	SIZE
5/32	5/32"	U	10-32UNF
3/16	3/16"	N1	NPT1/8
1/4	1/4"	N2	NPT1/4
5/16	5/16"	N3	NPT3/8
3/8	3/8"	N4	NPT1/2
1/2	1/2"		

SPC



Straight	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



Elbow	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



Union Straight	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	

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.

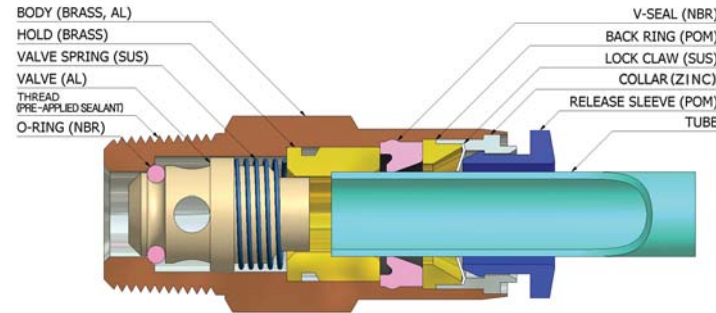
Features

- 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.

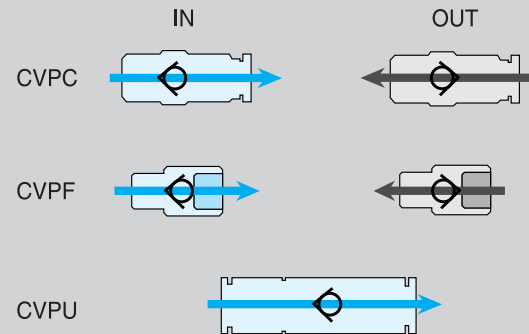
Specifications

- Fluid type : Air (No other gases or liquids)
- Working pressure: 150PSI / 9.9Kgf/cm² (990kPa)
- Cracking pressure: 150PSI / 0.1~0.2Kgf/cm² (990kPa)
- 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	OUT	BLUE
	04	φ4	M5	M5 × 0.8	IN	RED
	06	φ6	01	R1/8		
	08	φ8	02	R1/4		
	10	φ10	03	R3/8		
	12	φ12	04	R1/2		

METRIC - BSPP(G) CVPC 08-G1

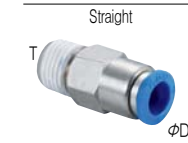
CHECK VALVES	Tube Dia		Thread Size		Sleeve color	
	CODE	φD	CODE	SIZE	OUT	BLUE
	04	φ4	G01	G1/8	IN	RED
	06	φ6	G02	G1/4		
	08	φ8	G03	G3/8		
	10	φ10	G04	G1/2		
	12	φ12				

INCH - NPT CVPC 5/16-N1

CHECK VALVES	Tube Dia		Thread Size		Sleeve color	
	CODE	SIZE	CODE	SIZE	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



MODEL(φD-T)	Tube(Metric) - Thread(R)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)	
	CODE	SIZE	CODE	SIZE	CODE	SIZE
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



MODEL(T1-T2)	Thread(R) - Thread(Rc)		Thread(NPT)-Thread(NPT)		Thread(G) - Thread(G)	
	CODE	SIZE	CODE	SIZE	CODE	SIZE
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



MODEL(φD)	Tube(Metric)		Tube(Inch)	
	CODE	SIZE	CODE	SIZE
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.

Two-Touch Fittings

Application

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

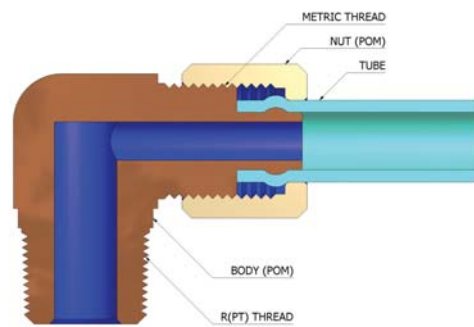
Features

- 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



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.

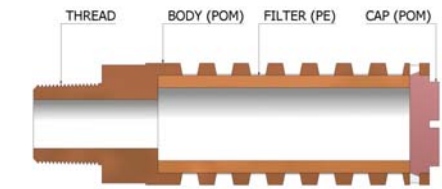
Specifications

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

Applied example

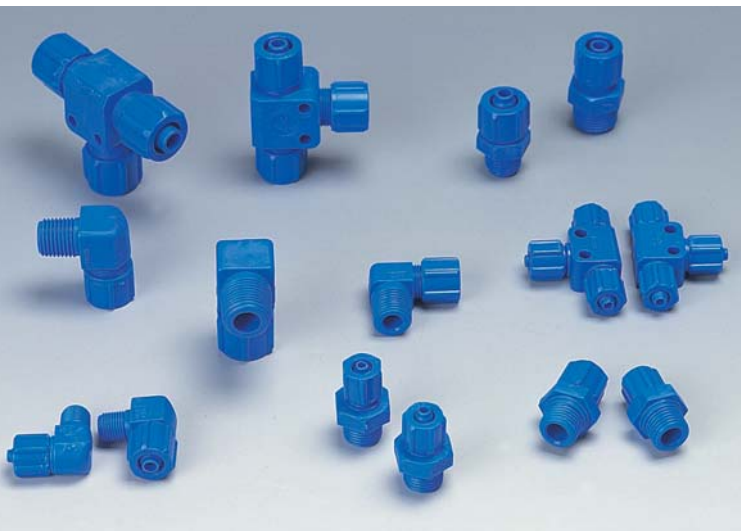
- The exterior hexagonal part can be assembled with a spanner for screw joining.
- If the element is blocked, the increasing resistance may cause product damage and system performance may decline. When this happens, replace the product with a new one.

Structural Diagram



ST

MODEL(T)
Thread(R)
ST-01
ST-02
ST-03
ST-04
ST-06
ST-08
STM-02



Product Code System

METRIC - BSPT(R)

CK 06-01

Two-Touch Fitting	Tube Dia		Thread Size	
	CODE	O.D. / I.D.	R(PT) THREAD CODE	SIZE
	04	∅4 / ∅2.5	01	R1/8
	06	∅6 / ∅4	02	R1/4
	08	∅8 / ∅5.5	03	R3/8
	10	∅10 / ∅6.5		
	12	∅12 / ∅8		



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.

CK



MODEL(∅D-T)		
Tube(Metric)-Thread(R)		
Straight	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



MODEL(∅D-T)			
Tube(Metric)-Thread(R)			
Elbow	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



MODEL(∅D)	
Tube(Metric)	
Union Tee	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.

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(B)-M5
STB-01	STB(B)-01
STB-02	STB(B)-02
STB-03	STB(B)-03
STB-04	STB(B)-04
STB-06	STB(B)-06
STB-08	STB(B)-08

STC



MODEL(T)	
Thread(R)	
STC-01	
STC-02	
STC-03	
STC-04	

Applications

- Used for piping of pneumatic devices.

Features

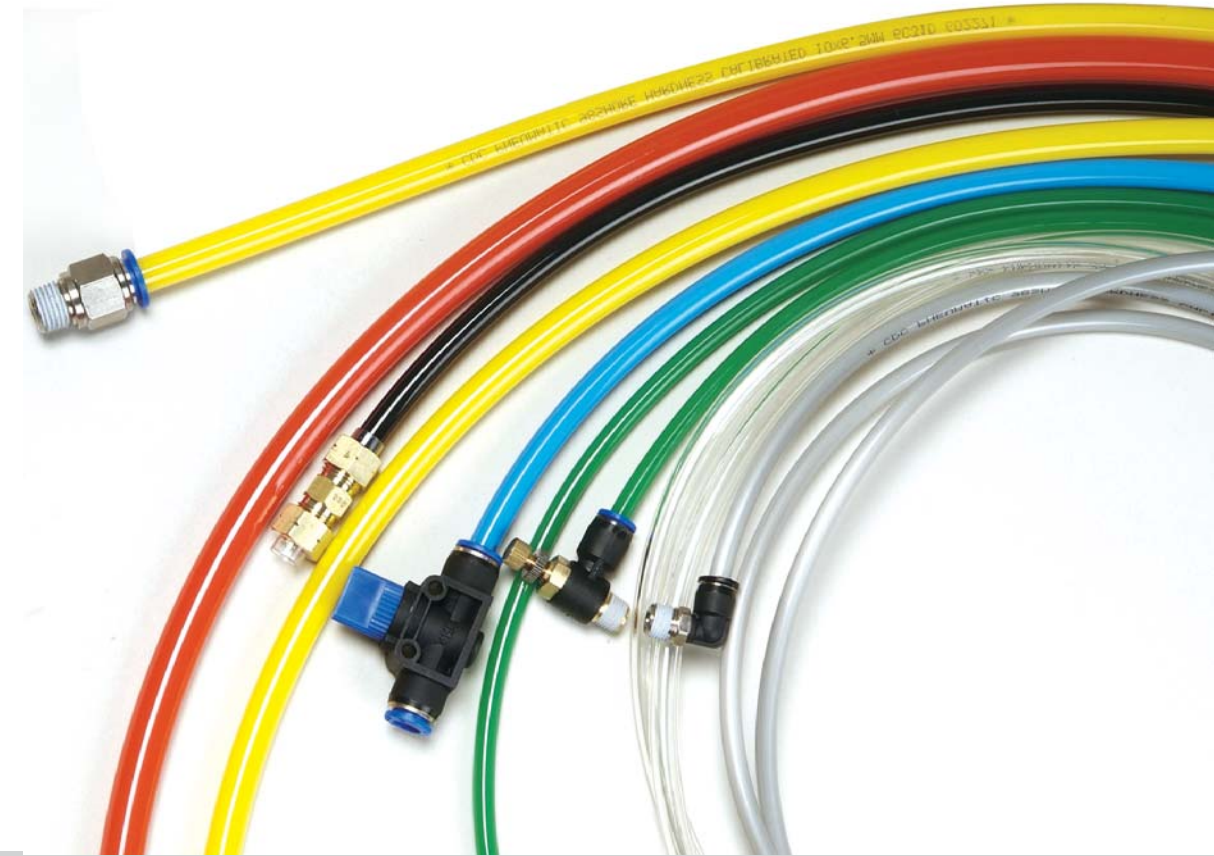
- Polyester-based thermoplastic Polyurethane resin(TPU)
- Excellent flexibility at low temperatures.
- Light-weight with good tolerance to wear and chemicals.
- Convenient for piping as it has better flexibility than nylon tubes.
- Tubes are available in diverse colors according to the working situation.

Specifications

- Fluid type : Air (No other gases or liquids)
- Working pressure: 0~150PSI / 0~9.9Kgf/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	Translucent Blue
CODE	WT	BK	RD	BU	YL	GR	CL	SL	TB



Product Code System

Polyurethane Tube

Polyurethane Tube	Tube Dia (O.D & I.D)				Tube Color	
	METRIC TUBE		INCH TUBE		COLOR	CODE
CODE	O.D	I.D	CODE	O.D		
0320	∅3	∅2	1/8	1/8"	White	WT
0420	∅4	∅2	5/32	5/32"	Black	BK
0425	∅4	∅2.5	3/16	3/16"	Red	RD
0640	∅6	∅4	1/4	1/4"	Blue	BU
0850	∅8	∅5	5/16	5/16"	Yellow	YL
0855	∅8	∅5.5	3/8	3/8"	Green	GN
1065	∅10	∅6.5	1/2	1/2"	Clear	CR
1280	∅12	∅8				
1290	∅12	∅9				
1611	∅16	∅11				
1612	∅16	∅12				

Polyurethane Coil Tube

Polyurethane Coil Tube	Tube Dia (O.D & I.D)			Length	Tube Color	
	METRIC TUBE				COLOR	CODE
CODE	O.D	I.D				
0640	∅6	∅4		Yellow	YL	
0850	∅8	∅5		Blue	BU	
1065	∅10	∅6.5		Black	BK	
1280	∅12	∅8				

PU



MODEL(Outer · Inner)	Tube(Metric)		Tube(Inch)	
	Outer	Inner	Outer	Inner
PU 0320	∅3	∅2	1/8	1/8"
PU 0420	∅4	∅2	5/32	5/32"
PU 0425	∅4	∅2.5	3/16	3/16"
PU 0640	∅6	∅4	1/4	1/4"
PU 0850	∅8	∅5	5/16	5/16"
PU 0855	∅8	∅5.5	3/8	3/8"
PU 1065	∅10	∅6.5	1/2	1/2"
PU 1280	∅12	∅8		
PU 1290	∅12	∅9		
PU 1612	∅16	∅12		

UC



MODEL(Outer · Inner · Length)			
Tube(Metric)-Meters			
Outer	Inner	Length	
UC 0640-3	∅6-∅4	3m	*w/o coupler
UC 0640-5	∅6-∅4	5m	*with coupler
UC 0850-5	∅8-∅5	5m	
UC 0850-7.5	∅8-∅5	7.5m	
UC 0850-10	∅8-∅5	10m	
UC 0850-7.5	∅8-∅5	7.5m	
UC 1065-5	∅10-∅6.5	5m	
UC 1065-10	∅10-∅6.5	10m	
UC 1065-7.5	∅10-∅6.5	7.5m	
UC 1280-5	∅12-∅8	5m	
UC 1280-7.5	∅12-∅8	7.5m	
UC 1280-10	∅12-∅8	10m	
UC 1280-7.5	∅12-∅8	7.5m	
UC 1280-10	∅12-∅8	10m	

*w/o coupler *with coupler

Tube Connection

Preparation



Prepare the tube, tube cutter, fitting connection devices (spanner or monkey wrench).

Tube cutting



Cut the tube at a right angle with the axis using a tube cutter.

Fitting connection



Tighten the connection with the spanner or monkey wrench observing the recommended torque range below.

Tube insertion



Mark the tube insertion length at the tube, and insert it in a straight line with the fitting. Make sure the marking is on the open cross section of the sleeve.

Tube Cutter

ETC



MODEL
ETC-20

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

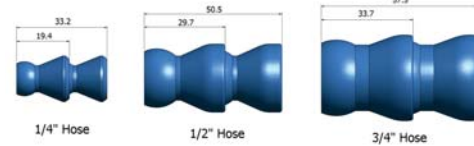
- Attached to machine tools to control the flow of cutting oil.

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(PT) 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		3/8" Round Nozzle		3/8" Round Nozzle
	1/4" Round Nozzle		1/2-1/4" Y-Reducer		3" Flare Nozzle
	1" Nozzle(16Hole)		1-1/4" Flare Nozzle		R 3/4 Thread
	1.5 Nozzle(16Hole)		1/2" Double Socket		
	1" Flare Nozzle		1/2" Valve		
	R 1/8 Thread		2-1/2" Flare Nozzle		
	1/4" Valve		1/2" Valve		
	R 1/4 Thread		1/2" Thread Valve		
	1/4" Thread Valve		2.0 Nozzle(20Hole)		

Couplers

Applications

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

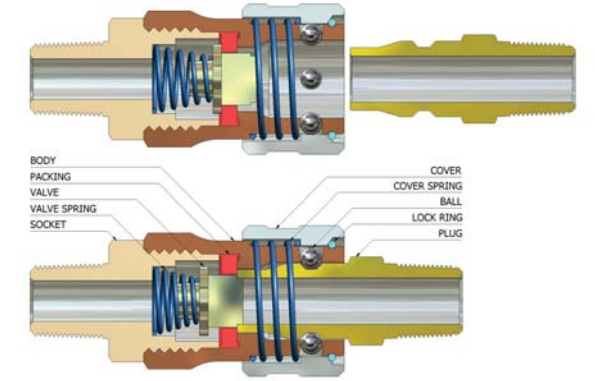
Features

- 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	2 Coupling Form	3 Screw Form	4 Thread Size
H: HI Coupler O: One Touch Coupler B: Brass Coupler	CODE TYPE S Socket P Plug	CODE TYPE H Hose Stem M Male Thread F Female Thread N Nut	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 - - - 8x5 10 - - - 10x6.5 12 - - - 12x8

Coupler

SH	MODEL(T)	SM	MODEL(T)	SF	MODEL(T)
	Hose Stem		Thread(R)		Thread(Rc)
	SH 20 SH 30 SH 40 SH 400 SH 600 SH 800		SM 20 SM 30 SM 40 SM 400 SM 600 SM 800		SF 20 SF 30 SF 40 SF 400 SF 600 SF 800
SN	MODEL(T)	PH	MODEL(T)	PM	MODEL(T)
	Hose Nut(φ T)		Hose Stem		Thread(R)
	SN 08 SN 10 SN 12		PH 20 PH 30 PH 40 PH 400 PH 600 PH 800		PM 20 PM 30 PM 40 PM 400 PM 600 PM 800
PF	MODEL(T)	PN	MODEL(T)		
	Thread(Rc)		Hose Nut(φ T)		
	PF 20 PF 30 PF 40 PF 400 PF 600 PF 800		PN 08 PN 10 PN 12		

One - Touch Coupler

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

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

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

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

Coupler (BSBM)

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

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

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

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

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

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

Mold Coupler (BSBM)

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

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

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

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

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

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

Line Coupler

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

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

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

	MODEL(T)
	Thread(Rc 1/4)
	OLC 2A

	MODEL(T)
	Thread(Rc 1/4)
	OLC 3A

SP Couplers

Applications

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

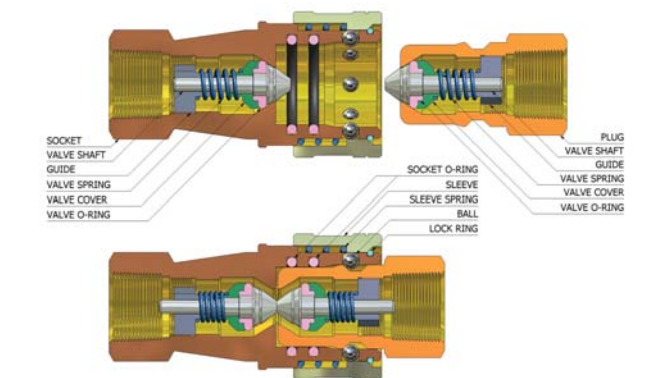
Features

- 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

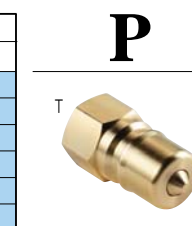
① SP Coupler ② Thread Size ③ Coupling Form

SIZE	S	P
01	Rc 1/8	Rc 1/8
02	Rc 1/4	Rc 1/4
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

CODE	TYPE
S	Socket
P	Plug



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



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

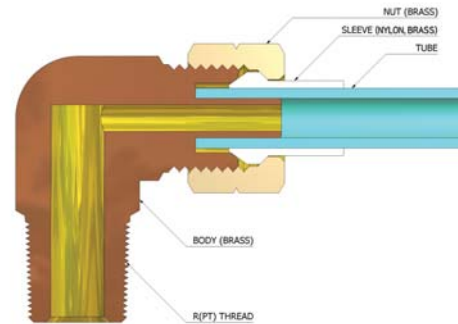
Two Touch Fitting BSBM		Tube Dia		Thread Size	
CODE	Q.D	φ	φ	R(P)T	THREAD
4×2	φ4	φ2		01	R1/8
4×2.5	φ4	φ2.5		02	R1/4
6×4	φ6	φ4		03	R3/8
8×5	φ8	φ5		04	R1/2
8×6	φ8	φ6			
10×6.5	φ10	φ6.5			
10×8	φ10	φ8			
12×8	φ12	φ8			
12×9	φ12	φ9			
16×12	φ16	φ12			
16×13	φ16	φ13			

INCH - BSPT(R)

CC 1/4-01

Two Touch Fitting BSBM		Tube Dia (Nylon Tube)		Thread Size	
CODE	Q.D	φ	φ	R(P)T	THREAD
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



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



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



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

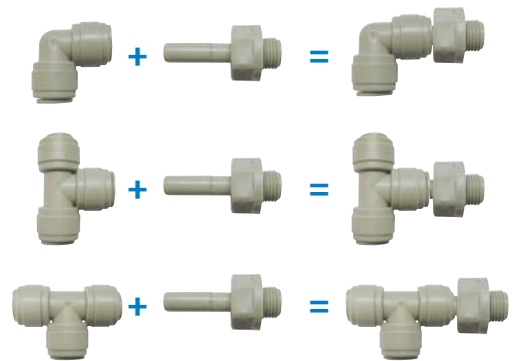




Fittings for Potable Water, Drinks Dispense, Beverages

Fittings for Potable Water, Drinks Dispense, Beverages

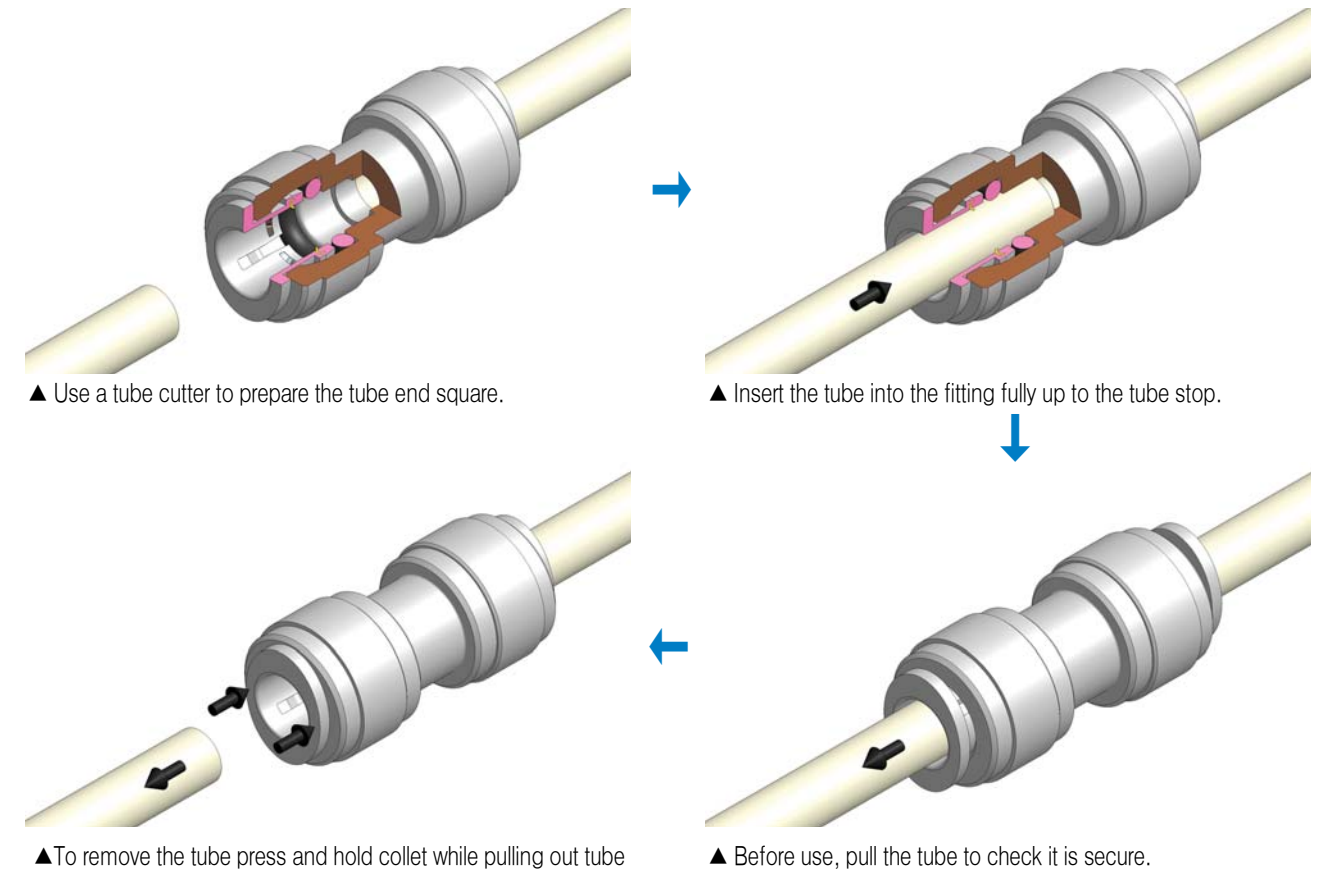
Adaptability



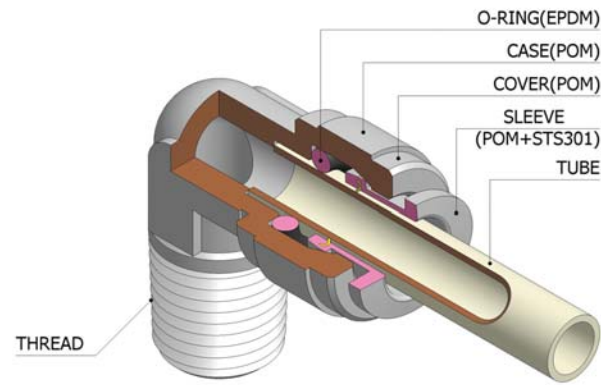
Color Codes

HUT 0606 - G	HUT 0606 - B	HUT 0606 - W
G(Gray)	B(Black)	W(Natural)

Connection & Disconnection



Structural Diagram



Applications and Features

PUSH-IN FITTINGS

- Fluidfit products are designed for water, food and air contact but can be used with selected gases, vacuum & liquids.
- A single action allows the tube to release and connect easily, saving time and expense.
- Fluidfit products are made from NSF approved non-toxic materials.
- Various uses depending on the user's environment and application

Specifications

- Fluid type : Water, Beverages
- Working pressure : 0~230PSI / 0~16Kgf/cm²
- Working temperature : 34~140° F / 0~60°C
- Applicable Tube : Polyethylene(PE), Polyamide(PA), and Polyurethane(PU)
- Reference data(right table)

Reference data

Fluid type	Water, Beverages	
Tube type	Polyethylene(PE), Polyamide(PA) and Polyurethane(PU)	
Temperature	Working Pressure	
	4mm~8mm	10mm~12mm
1°C	16Bar	10Bar
25°C	16Bar	10Bar
70°C	10Bar	7Bar

Maximum Torque Values for BSP, BSPT and NPT Plastic Threads

Threads	1/8	1/4	3/8	1/2
Max. Torque	1.5N.m	1.5N.m	3.0N.m	3.0N.m

Product Code System

METRIC - BSPT(R)

HPC 06-R01

Fitting for Water Application	Tube Dia		Thread Size	
	CODE	SIZE	R(PT)	THREAD
	04	Ø4		
	06	Ø6	R01	R1/8
	08	Ø8	R02	R1/4
	10	Ø10	R03	R3/8
	12	Ø12	R04	R1/2

METRIC - BSPP(G)

HPC 04-G01

Fitting for Water Application	Tube Dia		Thread Size	
	CODE	SIZE	G(PF)	THREAD
	04	Ø4		
	06	Ø6	G01	G1/8
	08	Ø8	G02	G1/4
	10	Ø10	G03	G3/8
	12	Ø12	G04	G1/2

INCH - NPT



HPC 5/32-N01


Fitting for Water Application	Tube Dia		Thread Size	
	CODE	SIZE	NPT	THREAD
	5/32	Ø5/32		
	3/16	Ø3/16	N01	NPT1/8
	1/4	Ø1/4	N02	NPT1/4
	5/16	Ø5/16	N03	NPT3/8
	3/8	Ø3/8	N04	NPT1/2
	1/2	Ø1/2		



WARNING AND PRECAUTION



- USE EACH PRODUCT ONLY FOR RECOMMENDED APPLICATIONS.
- FLOWFIT PRODUCTS ARE ORIGINALLY DESIGNED FOR USE WITH WATER, FOOD, OR BEVERAGE PRODUCTS. FOR OTHER CHEMICALS REFER TO CHEMICAL COMPATIBILITY DATA (CHART) PROVIDED. FOR UNLISTED CHEMICALS OR MEDIA PLEASE CONTACT US.
- DO NOT DISASSEMBLE OR MODIFY THE PRODUCTS. IT MAY CAUSE MALFUNCTION, LEAK, OR FAILURE AND VOIDS THE PRODUCT WARRANTY.
- DO NOT APPLY EXCESSIVE STRESS ON FITTING BY ROTATION, TWIST, BENDING, SHOCK. THIS MAY DAMAGE THE FITTING OR CAUSE MALFUNCTION, LEAK, OR FAILURE AND VOIDS THE PRODUCT WARRANTY.
- DO NOT USE THE PRODUCTS AT THE TEMPERATURE EXCEEDING 80°C. THIS MAY CAUSE MALFUNCTION, LEAK, OR FAILURE.
- DO NOT USE PIPE GLUE OR OTHER LIQUID SEALANTS OTHER THAN TEFLON TAPE WHEN SEALING THREADED FITTINGS.
- DO NOT PRESS COLLET TOWARD BODY OR ATTEMPT TO PULL OUT TUBING WHEN THE LINE IS PRESSURED.
- USE LOCKING CLIPS TO PREVENT UNINTENDED SEPARATION.
- WHEN TIGHTENING THREADED FITTINGS, REFER TO TORQUE DATA PROVIDED. OVERTORQUE MAY DAMAGE THE FITTING AND CAUSE LEAK OR FAILURE.
- BEFORE DISASSEMBLING TUBE CONNECTION, VERIFY IF THE LINE PRESSURE HAS BEEN REMOVED.
- FLOWFIT PRODUCTS MAY BE MODIFIED OR REDESIGNED AS TO MARKET REQUIREMENT FOR IMPROVEMENT WITHOUT NOTICE, THEREFORE THE ACTUAL PRODUCT MAY DIFFER FROM PICTURES PROVIDED.



PUSH-IN FITTINGS



HPC	MODEL(ϕ D-T)					HPC-G
	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)		
	HPC 06R01	HPC 5/32-N01	HPC 5/16-N03	HPC 04G01	HPC 10G03	
	HPC 06R02	HPC 5/32-N02	HPC 5/16-N04	HPC 04G02	HPC 10G04	
	HPC 08R01	HPC 3/16-N01	HPC 3/8-N01	HPC 06G01	HPC 12G03	
	HPC 08R02	HPC 3/16-N02	HPC 3/8-N02	HPC 06G02	HPC 12G04	
	HPC 10R03	HPC 1/4-N01	HPC 3/8-N03	HPC 08G01		
	HPC 10R04	HPC 1/4-N02	HPC 3/8-N04	HPC 08G02		
	HPC 12R03	HPC 1/4-N03	HPC 1/2-N03	HPC 08G03		
	HPC 12R04	HPC 5/16-N01	HPC 1/2-N04	HPC 08G04		
		HPC 5/16-N02		HPC 10G02		

HCF-G	MODEL(ϕ D-T)	
	Tube(Metric)-Thread(G)	
	HCF06-G01	HCF12-G03
	HCF06-G02	HCF12-G04
	HCF06-G03	
	HCF08-G01	
	HCF08-G02	
	HCF08-G03	
	HCF08-G04	
	HCF10-G03	
	HCF10-G04	



HCJ	MODEL(ϕ D-T)				HCJ-G
	Tube(Metric)-Thread(R)	Tube(Metric)-Thread(G)			
	HCJ 04R01	HCJ 08R04	HCJ 04G01	HCJ 10G02	
	HCJ 04R02	HCJ 10R02	HCJ 04G02	HCJ 10G03	
	HCJ 06R01	HCJ 10R03	HCJ 06G01	HCJ 10G04	
	HCJ 06R02	HCJ 10R04	HCJ 06G02	HCJ 12G03	
	HCJ 08R01	HCJ 12R03	HCJ 08G01	HCJ 12G04	
	HCJ 08R02	HCJ 12R04	HCJ 08G02		
	HCJ 08R03		HCJ 08G03		



HPL	MODEL(ϕ D-T)			HPL
	Tube(Metric)-Thread(R)	Tube(Inch)-Thread(NPT)		
	HPL 04R01	HPL 5/32-N01	HPL 5/16-N03	
	HPL 06R01	HPL 3/16-N01	HPL 3/8-N02	
	HPL 06R02	HPL 1/4-N01	HPL 3/8-N03	
	HPL 08R02	HPL 1/4-N02	HPL 1/2-N03	
	HPL 10R03	HPL 1/4-N03	HPL 1/2-N04	
	HPL 12R04	HPL 5/16-N02		



HLJ	MODEL(ϕ D)			HLJ
	Tube(Metric)	Tube(Inch)		
	HLJ 0404	HLJ 5/32-5/32	HLJ 3/8-5/16	
	HLJ 0606	HLJ 3/16-3/16	HLJ 3/8-3/8	
	HLJ 0808	HLJ 1/4-1/4	HLJ 1/2-1/2	
	HLJ 1010	HLJ 5/16-5/16		
	HLJ 1212	HLJ 3/8-1/4		



HGJ	MODEL(ϕ D)		HGJ
	Tube(Metric)	Tube(Inch)	
	HGJ 06-04	HGJ 5/16-1/4	
	HGJ 08-06		
	HGJ 10-08		



PUSH-IN FITTINGS

HMM	MODEL(ϕ D)		HMM
	Tube(Metric)	Tube(Inch)	
	HMM 04-04	HMM 5/32-5/32	
	HMM 06-04	HMM 1/4-1/4	
	HMM 06-06	HMM 5/16-5/16	
	HMM 08-06	HMM 3/8-3/8	
	HMM 08-08	HMM 1/2-1/2	
	HMM 10-10		
	HMM 12-12		



HUC	MODEL(ϕ D)		HUC
	Tube(Metric)	Tube(Inch)	
	HUC 0404	HUC 5/32-5/32	
	HUC 0604	HUC 3/16-3/16	
	HUC 0606	HUC 1/4-1/4	
	HUC 0806	HUC 5/16-1/4	
	HUC 0808	HUC 5/16-5/16	
	HUC 1008	HUC 3/8-5/16	
	HUC 1010	HUC 3/8-3/8	
	HUC 1210	HUC 1/2-3/8	
	HUC 1212	HUC 1/2-1/2	

HUL	MODEL(ϕ D)		HUL
	Tube(Metric)	Tube(Inch)	
	HUL 0404	HUL 5/32-5/32	
	HUL 0606	HUL 3/16-3/16	
	HUL 0806	HUL 1/4-1/4	
	HUL 0808	HUL 5/16-5/16	
	HUL 1010	HUL 3/8-3/8	
	HUL 1212	HUL 1/2-1/2	

HUT	MODEL(ϕ D)		HUT
	Tube(Metric)	Tube(Inch)	
	HUT 0404	HUT 5/32-5/32	
	HUT 0606	HUT 3/16-3/16	
	HUT 0808	HUT 1/4-1/4	
	HUT 1010	HUT 5/16-5/16	
	HUT 1212	HUT 3/8-3/8	
		HUT 1/2-1/2	

HUY	MODEL(ϕ D)		HUY
	Tube(Metric)	Tube(Inch)	
	HUY 0404	HUY 5/32-5/32	
	HUY 0606	HUY 3/16-3/16	
	HUY 0808	HUY 1/4-1/4	
	HUY 1010	HUY 5/16-5/16	
	HUY 1212	HUY 3/8-3/8	
		HUY 1/2-1/2	

ACCESSORIES

HCP	MODEL(ϕ D)		HCP
	Tube(Metric)	Tube(Inch)	
	HCP 0404	HCP 5/32-5/32	
	HCP 0606	HCP 3/16-3/16	
	HCP 0808	HCP 1/4-1/4	
	HCP 1010	HCP 5/16-5/16	
	HCP 1212	HCP 3/8-3/8	
		HCP 1/2-1/2	

SINGLE CHECK VALVES(NON-RETURN VALVE)

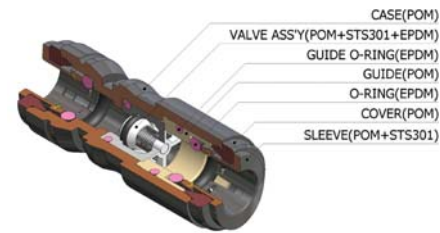
Applications

- This Valve allows one way fluid flow and blocks the reverse flow



Features

- Compact size and convenient to use in a narrow space
- Cracking Pressure 0.02bar
- Fast installation and easy maintenance

Structural Diagram



NEW PRODUCTS

HCVU	MODEL(φD)		HCVU
	Tube(Metric)	Tube(Inch)	
	HCVU 0606	HCVU 1/4-1/4	
	HCVU 0808	HCVU 5/16-5/16	
	HCVU 1010	HCVU 3/8-3/8	
	HCVU 1212	HCVU 1/2-1/2	

BALL VALVES(SHUT-OFF VALVE)

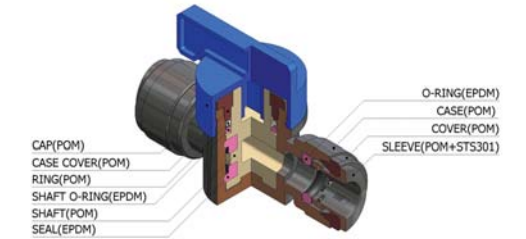
Applications

- The user switches the On-Off valve to supply the compressed air or fluid.
- Suitable for air and water



Features

- Compact size and convenient to use in a narrow space
- Designed full bore and maximum flow rate

Structural Diagram



NEW PRODUCTS

HBVU	MODEL(φD)		HBVU
	Tube(Metric)	Tube(Inch)	
	HBVU 0606	HBVU 1/4-1/4	
	HBVU 0808	HBVU 5/16-5/16	
	HBVU 1010	HBVU 3/8-3/8	
	HBVU 1212	HBVU 1/2-1/2	