

# Compact One-Touch Fittings

## 용도 Applications

- 협소한 공간의 공기압배관에 사용하는 초소형 원터치식 관 연결구입니다.
- 사용자의 환경에 따라서 다양하게 사용할 수 있습니다.
- Mini one touch type pipe connection tool for air pressure piping in limited spaces.
- Various uses according to the user's environment.

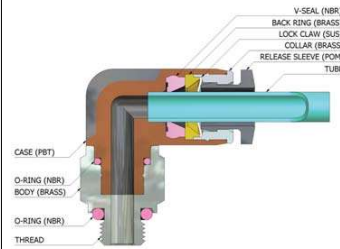
## 특징 Features

- 한 번의 동작으로 튜브를 밀어넣어 손쉽게 탈착할 수 있습니다.
- 일반타입에 비해 체적과 외경은 소형화되고 유량은 동일하게 얻을 수 있습니다.
- 니켈도금으로 표면처리가 되어 있어 내부식성이 뛰어납니다.
- 타원형 슬리브는 협소한 공간에서도 튜브의 탈착이 편리하도록 설계되어 있습니다.
- 나사부에는 오링 및 테프론 처리가 되어 있습니다.
- 일반 원터치피팅에 비해 초소형화된 피팅이므로 소형기기 및 협소한 공간의 배관에 적합한 피팅입니다.
- 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.

## 사양 Specifications

- 사용유체 Fluid type : 압축공기 Air(No other gases or liquids) Do not use with water application
- 사용압력 Working pressure : 0~150PSI / 0~9.9kgf/cm<sup>2</sup>(0~990kPa)  
\*작업용 Tube와의 조합에 있어서 Tube의 최고사용압력에 의거합니다
- 부양 Negative pressure : -29.5 in Hg / -750mmHg(-750Torr)
- 사용온도범위 Working temperature : 32~140° F / 0~60° C
- 사용호스종류 Applicable Tube: Polyurethane and Nylon

## Structural Diagram



## 주문형식 Product Code System

### METRIC - BSPT(R)

## PC 06-01-C

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

### METRIC - BSPP(G)

## PC 06-G01-C

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

### INCH - BSPT(R)

## PC 1/4-01-C

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

### INCH - NPT

## PC 1/4-N1-C

Compact OneTouch Fitting		Tube Dia	Thread Size	Sleeve Color
CODE	SIZE	UNF THREAD	CODE	SIZE
1/8	Ø1/8	U	10-32UNF	Black
5/32	Ø5/32	U	10-32UNF	
1/4	Ø1/4	NPT THREAD	CODE	
		NO	NPT1/16	
		N1	NPT1/8	

## 사용예 Applied example

- 캡렛피팅 전 제품은 황동바디에 니켈도금으로 처리되어 있어 내부식성이 뛰어납니다
- 슬리브가 타원형로 설계되어 탈부착이 용이합니다.
- 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

- 본체 내부에 육각구멍이 가공되어 있어서 육각렌치로 취부를 할 수 있습니다.
- POC 제품은 본체 외부가 원형으로 되어 있어서 타공구로는 체결할 수 없습니다.
- 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



- 플라스틱 본체가 회전되는 구조로서 튜브의 배관이 효율적입니다.
- The plastic main body rotates to allow efficient piping.


## 주의사항 CAUTION


- 사용하시기 전에 반드시 안전상의 주의 및 경고표시의 분류방법과 피팅제품의 공통적 주의사항을 참조하여 주십시오.
- 피팅의 체결 적정 토크를 참조하여 조립하시기 바랍니다.
- 기준으로는 손으로 체결한 후 공구로 2~3회전 하는 것에 해당합니다. 너무 세게 조립할 경우 나사가 파손됨으로 주의 하십시오.
- 피팅의 튜브 장착 시 튜브의 절단면이 직각으로 절단하여 속까지 끼운 후에 튜브를 가볍게 당겨 빠지지 않는지 확인하십시오.
- 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.


## 경고사항 WARNING



- 몸체나 피팅부에서 충격공구에 의한 비틀림, 타격을 피하십시오. 제품파손이나 에어누설의 원인이 됩니다.
- 사용유체가 물일때 사양에 명기되어 있는 조건을 모두 만족시키지 못할 경우에는 사용을 자제하여 주십시오. 피팅의 파손, 튜브 빠짐, 압축공기 누설의 원인이 됩니다.
- Be sure to prevent pressure buildup due to twisting, pulling, and bending of the fitting product. This may cause product damage or air leakage.
- When the applied fluid is water, do not use the product if it does not meet all specifications. Fitting damage, tube release, and compressed air leakage may occur.


PC-C	MODEL(φD-T)								PC-G-C
	Tube(Metric)-Thread(R)		Tube(Inch)-Thread(R)		Tube(Inch)-Thread(NPT)		Tube(Metric)-Thread(G)		
Male Straight 	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		Male Straight 
	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	MODEL(φD-T)					
	Tube(Metric)-Thread(Rc)		Tube(Inch)-Thread(Rc)		Tube(Inch)-Thread(NPT)	
Female Straight 	PCF 03-M3C	PCF 04-M6C	PCF 1/8-M3C	PCF 5/32-M6C	PCF 1/8-UC	PCF 5/32-N0C
	PCF 03-M5C	PCF 04-01C	PCF 1/8-M5C	PCF 5/32-01C	PCF 1/8-N0C	PCF 5/32-N1C
	PCF 03-M6C	PCF 06-M5C	PCF 1/8-M6C	PCF 1/4-M5C	PCF 1/8-N1C	PCF 1/4-UC
	PCF 04-M3C	PCF 06-M6C	PCF 1/8-01C	PCF 1/4-M6C	PCF 1/8-N2C	PCF 1/4-N0C
	PCF 04-M5C	PCF 06-01C	PCF 5/32-M3C	PCF 1/4-01C	PCF 5/32-UC	PCF 1/4-N1C
			PCF 5/32-M5C			


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


PMM-C	MODEL(φD)
	Tube(Metric)
Bulkhead Union 	PMM-03C
	PMM-04C
	PMM-06C


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


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


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


PUC-C	MODEL(φD)	
	Tube(Metric)	Tube(Inch)
Union Straight 	PUC 03C	PUC 1/8C
	PUC 04C	PUC 5/32C
	PUC 06C	PUC 1/4C


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


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

PG-C	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
Reducer 	PG 04-03C	PG 5/32-1/8C
	PG 06-03C	PG 1/4-1/8C
	PG 06-04C	PG 1/4-5/32C

PY-C	MODEL(φD)	
	Tube(Metric)	Tube(Inch)
Union Y 	PY 03C	PY 1/8C
	PY 04C	PY 5/32C
	PY 06C	PY 1/4C

PW-C	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
Reducer Y 	PW 04-03C	PW 5/32-1/8C
	PW 06-03C	PW 1/4-1/8C
	PW 06-04C	PW 1/4-5/32C

PGJ-C	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
Plug -In Reducer 	PGJ 04-03C	PGJ 5/32-1/8C
	PGJ 06-03C	PGJ 1/4-1/8C
	PGJ 06-04C	PGJ 1/4-5/32C

PP-C	MODEL(φD1-φD2)	
	Tube(Metric)	Tube(Inch)
Plug 	PP 03C	PP 1/8C