

## One-touch fittings—threaded type



### Ordering code

#### Same diameter type fittings(NPT Thread)

**NPL 1/4 - 1/8**

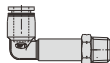
① ② ③

#### ① Model

NPL: Male elbow



NPLL: Extended male elbow



NPEB: Male branch tee



NPLF: Female elbow



NPED: Male run tee



NPCF: Female connector



NPYB: Branch "Y"



NPMF: Bulkhead connector



NPH: Universal male elbow



NPHF: Universal female elbow



NPHW: Double universal male elbow



NPZB: Threaded cross



#### ② Port size

1/8:  $\Phi$  1/8"  
5/32:  $\Phi$  5/32"  
1/4:  $\Phi$  1/4"  
5/16:  $\Phi$  5/16"  
3/8:  $\Phi$  3/8"  
1/2:  $\Phi$  1/2"

#### ③ Thread connection

Thread connection	Adaptable port size
U10: #10-32UNF	$\Phi$ 1/8", $\Phi$ 5/32", $\Phi$ 1/4"
1/8: NPT1/8	$\Phi$ 5/32", $\Phi$ 1/4"
1/4: NPT1/4	$\Phi$ 5/16", $\Phi$ 3/8"
3/8: NPT3/8	$\Phi$ 1/2"
1/2: NPT1/2	

#### Same diameter type fittings(PT Thread)

**PL 6 01**

① ② ③

#### ① Model

PHW: Double universal male elbow



PL: Male elbow



PHF: Universal female elbow



PLL: Extended male elbow



PEB: Male branch tee



PLF: Female elbow



PED: Male run tee



PCF: Female connector



PYB: Branch "Y"



PMF: Bulkhead connector



PZB: Threaded cross



PH: Universal male elbow



#### ② Port size

4:  $\Phi$  4mm  
6:  $\Phi$  6mm  
8:  $\Phi$  8mm  
10:  $\Phi$  10mm  
12:  $\Phi$  12mm

#### ③ Thread connection

Thread connection	Adaptable port size
M5: M5X0.8	$\Phi$ 4, $\Phi$ 6
01: PT1/8	$\Phi$ 4, $\Phi$ 6
02: PT1/4	$\Phi$ 8, $\Phi$ 10
03: PT3/8	$\Phi$ 12
04: PT1/2	

## One-touch fittings—threaded type

### Ordering code

#### Different diameter type fittings(NPT Thread)

**NPKD 1/4 - 5/32 - 1/8**

①

②

③

④

#### ① Model

NPKD: Male reducer triple branch



#### ② Port size

1/4:  $\Phi$  1/4"  
5/16:  $\Phi$  5/16"  
3/8:  $\Phi$  3/8"

#### ③ Port size

5/32:  $\Phi$  5/32"  
1/4:  $\Phi$  1/4"  
5/16:  $\Phi$  5/16"

#### ④ Thread connection

1/8: NPT1/8  
1/4: NPT1/4  
3/8: NPT3/8



#### Different diameter type fittings(PT Thread)

**PKD 6 - 4 01**

①

②

③

④

#### ① Model

PKD: Male reducer triple branch



#### ② Port size

6:  $\Phi$  6mm  
8:  $\Phi$  8mm  
10:  $\Phi$  10mm

#### ③ Port size

4:  $\Phi$  4mm  
6:  $\Phi$  6mm  
8:  $\Phi$  8mm

#### ④ Thread connection

01: PT1/8  
02: PT1/4  
03: PT3/8



## Specification

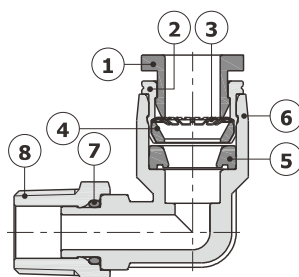
<b>Operating pressure range</b>	<b>0~145psi(0~1.0MPa)</b>
Negative pressure	10Torr(-750mmHg)
Proof pressure	215psi(1.5MPa)
Ambient and fluid temperature	-5~160°F (-20~70°C)
Applicable tubing	Soft nylon or polyurethane

## Product feature

1. Variable models can be widely used in every kind of pneumatic systems.
2. High circulation performance: bear the same flow with the volume of the tubing inside diameter.
3. Connect tubing easily and conveniently. The tubing connection portion is safe and durable.
4. The threaded portion is covered with sealant and the M5, #10-32UNF thread are attached with a sealing gasket to prevent air leakage over the connection thread portion.
5. The nickel plated body is anti-corrosion and anti-pollution, which allows a broader application.

## Inner structure

### NPL,PL Series



No.	Item
1	Release button
2	Guide
3	Spring gasket
4	Chuck
5	O-ring
6	Body
7	O-ring
8	Stud

# Accessories—One-Touch Fittings

## One-touch fittings—threaded type

Table for interface port and tube O.D.

Product series	Thread type	Port size					
		Φ1/8"	Φ5/32"	Φ1/4"	Φ5/16"	Φ3/8"	Φ1/2"
NPL	#10-32UNF	●	●	●			
	NPT1/8		●	●	●	●	
	NPT1/4			●	●	●	●
	NPT3/8			●	●	●	●
	NPT1/2					●	●
NPLL NPEB NPED NPYB	#10-32UNF		●	●			
	NPT1/8		●	●	●	●	
	NPT1/4			●	●	●	●
	NPT3/8			●	●	●	●
	NPT1/2					●	●
NPLF NPCF	#10-32UNF		●	●			
	NPT1/8		●	●	●	●	
	NPT1/4			●	●	●	●
	NPT3/8			●	●	●	●
	NPT1/2					●	●
NPH NPHF	#10-32UNF		●	●			
	NPT1/8		●	●	●		
	NPT1/4			●	●	●	
	NPT3/8			●	●	●	●
	NPT1/2					●	●
NPMF	NPT1/8		●	●	●	●	
	NPT1/4			●	●	●	●
	NPT3/8			●	●	●	●
	NPT1/2					●	●
	NPZB	NPT1/8			●	●	●
NPT1/4				●	●	●	●
NPT3/8				●	●	●	●
NPT1/2						●	●
NPHW		NPT1/8		●	●	●	
	NPT1/4			●	●	●	
	NPT3/8			●	●	●	●
	NPT1/2					●	●

Product series	Thread type	Port size		
		Φ1/4"-Φ5/32"	Φ5/16"-Φ1/4"	Φ3/8"-Φ5/16"
NPKD	NPT1/8	●		
	NPT1/4		●	
	NPT3/8			●

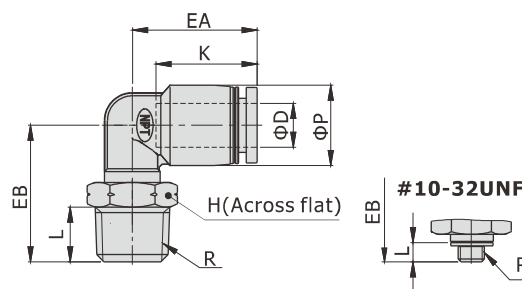
Product series	Thread type	Port size				
		Φ4	Φ6	Φ8	Φ10	Φ12
PL	M5	●	●			
	PT1/8	●	●	●	●	●
	PT1/4	●	●	●	●	●
	PT3/8		●	●	●	●
	PT1/2		●	●	●	●
PLL	M5	●	●			
	PT1/8	●	●	●	●	
	PT1/4	●	●	●	●	●
	PT3/8		●	●	●	●
	PT1/2				●	●
PEB PED PYB	M5	●	●			
	PT1/8	●	●	●	●	
	PT1/4	●	●	●	●	●
	PT3/8		●	●	●	●
	PT1/2			●	●	●
PH PHF	M5	●	●			
	PT1/8	●	●	●		
	PT1/4		●	●	●	
	PT3/8		●	●	●	●
	PT1/2			●	●	●
PHW	PT1/8	●	●	●		
	PT1/4		●	●	●	
	PT3/8		●	●	●	●
	PT1/2			●	●	●
	PZB	PT1/8		●	●	
PT1/4			●	●	●	
PT3/8			●	●	●	●
PT1/2				●	●	●
PLF		M5	●	●		
	PT1/8	●	●	●	●	
	PT1/4	●	●	●	●	●
	PT3/8		●	●	●	●
	PT1/2			●	●	●
PCF	M5	●	●			
	PT1/8	●	●	●	●	
	PT1/4	●	●	●	●	●
	PT3/8		●	●	●	●
	PT1/2		●	●	●	●
PMF	M5					
	PT1/8	●	●	●	●	
	PT1/4	●	●	●	●	●
	PT3/8		●	●	●	●
	PT1/2			●	●	●

Product series	Thread type	Port size		
		Φ6-Φ4	Φ8-Φ6	Φ10-Φ8
PKD	PT1/8	●		
	PT1/4		●	
	PT3/8			●

## One-touch fittings—threaded type

### Dimensions

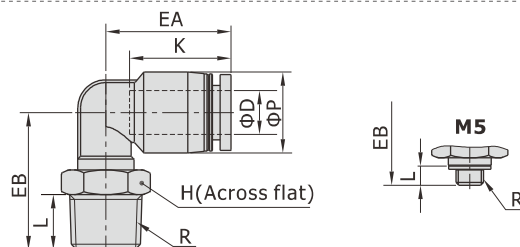
#### NPL Series



[Unit: inch]

Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)
NPL1/8-U10	1/8	#10-32UNF	0.30	0.14	0.47	0.57	0.57	9/32	2.7
NPL5/32-U10	5/32	#10-32UNF	0.33	0.14	0.49	0.57	0.57	9/32	3.3
NPL5/32-1/8		NPT1/8	0.33	0.30	0.49	0.59	0.63	7/16	6.7
NPL1/4-U10	1/4	#10-32UNF	0.49	0.14	0.67	0.79	0.67	5/16	4.5
NPL1/4-1/8		NPT1/8	0.49	0.30	0.67	0.79	0.81	7/16	6.5
NPL1/4-1/4		NPT1/4	0.49	0.39	0.67	0.79	0.94	9/16	13.8
NPL1/4-3/8		NPT3/8	0.49	0.43	0.67	0.79	1.11	11/16	21.1
NPL5/16-1/8	5/16	NPT1/8	0.59	0.30	0.73	0.91	1.02	1/2	9.1
NPL5/16-1/4		NPT1/4	0.59	0.39	0.73	0.91	0.98	9/16	13.3
NPL5/16-3/8		NPT3/8	0.59	0.43	0.73	0.91	1.04	11/16	21.6
NPL3/8-1/8	3/8	NPT1/8	0.71	0.30	0.83	1.00	1.12	5/8	15.1
NPL3/8-1/4		NPT1/4	0.71	0.39	0.83	1.00	1.20	5/8	17.6
NPL3/8-3/8		NPT3/8	0.71	0.43	0.83	1.00	1.10	11/16	21.6
NPL3/8-1/2		NPT1/2	0.71	0.55	0.83	1.00	1.28	7/8	39.5
NPL1/2-1/4	1/2	NPT1/4	0.83	0.39	0.91	1.16	1.28	11/16	22.1
NPL1/2-3/8		NPT3/8	0.83	0.43	0.91	1.16	1.30	11/16	26.5
NPL1/2-1/2		NPT1/2	0.83	0.55	0.91	1.16	1.34	7/8	39.5

#### PL Series



[Unit: mm]

Model\Item	ΦD	R	ΦP	L	K	EA	EB	H	Weight(g)
PL4M5	4	M5×0.8	9	3.5	14	17	15	8	3
PL401		PT1/8	9	7.5	14	17	18.5	10	4.5
PL402		PT1/4	9	10	14	17	22.0	14	12
PL6M5	6	M5×0.8	12.5	3.5	17	20	17.0	8	4.5
PL601		PT1/8	12.5	7.5	17	20	20.5	10	6
PL602		PT1/4	12.5	10	17	20	24.0	14	13.5
PL603		PT3/8	12.5	11	17	20	25.5	17	20.5
PL604	PT1/2	12.5	14	17	20	30.0	21	36	
PL801	8	PT1/8	15	7.5	18.5	23	20.5	10	7.5
PL802		PT1/4	15	10	18.5	23	25.0	14	13
PL803		PT3/8	15	11	18.5	23	26.5	17	21
PL804		PT1/2	15	14	18.5	23	31.0	21	36
PL1001	10	PT1/8	18	7.5	21	25.5	25.0	17	16.5
PL1002		PT1/4	18	10	21	25.5	27.0	17	19
PL1003		PT3/8	18	11	21	25.5	28.0	17	21
PL1004		PT1/2	18	14	21	25.5	32.5	21	37
PL1201	12	PT1/8	21	7.5	23	28.5	26.5	17	19
PL1202		PT1/4	21	10	23	28.5	28.5	17	21.5
PL1203		PT3/8	21	11	23	29.5	33	17	25.5
PL1204		PT1/2	21	14	23	29.5	34	21	37