

One-touch fittings—threaded type

MOTIONUSA



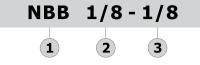




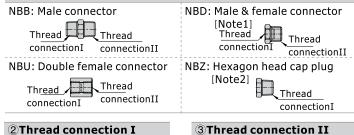


BB

Ordering code



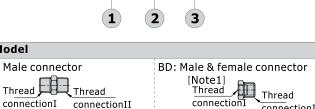




connectionI	connectionI connectionII
nection II	②Thread connection I
	01: PT1/8
	02: PT1/4
	03: PT3/8
	04: PT1/2

BU: Double female connector

Thread



01

01



③Thread connection II
01: PT1/8
02: PT1/4
03: PT3/8
04: PT1/2

[Note1] For NBD series, Thread I is Female thread, Thread II is male thread; [Note2] For NBZ series, no thread II and thread I is male thread.

1/8: NPT1/8

1/4: NPT1/4

3/8: NPT3/8

1/2: NPT1/2

Table for interface port and tube O.D.

Product	Thread	Th	read cor	nection	II
series	connection I	NPT1/8	NPT1/4	NPT3/8	NPT1/2
	NPT1/8	•	•	•	
NBB	NPT1/4		•	•	•
INDD	NPT3/8			•	•
	NPT1/2				•
	NPT1/8	•			
NBU	NPT1/4		•		
NDU	NPT3/8			•	
	NPT1/2				•
	NPT1/8		•	•	•
NBD	NPT1/4			•	•
	NPT3/8				•
	NPT1/2				

Product series	Thread connection					
Product series	NPT1/8	NPT1/4	NPT3/8	NPT1/2		
NBZ	•	•	•	•		

Product	Thread	Thread connection II					
series	connection I	PT1/8	PT1/4	PT3/8	PT1/2		
	PT1/8	•	•	•			
ВВ	PT1/4		•	•	•		
ВВ	PT3/8			•	•		
	PT1/2				•		
	PT1/8		•	•	•		
BD	PT1/4			•	•		
ви	PT3/8				•		
	PT1/2						
	PT1/8	•					
BU	PT1/4		•				
	PT3/8			•			
	PT1/2				•		

Product	Thread connection							
series	PT1/8	PT1/4	PT3/8	PT1/2				
BZ	•	•	•	•				

Specification

1 Model

1/8: NPT1/8

1/4: NPT1/4

3/8: NPT3/8

1/2: NPT1/2

Operating pressure range	0~145psi(0~1.0MPa)			
Negative pressure	10Torr(-750mmHg)			
Proof pressure	215psi(1.5MPa)			
Ambient and fluid temperature	32~302°F(0~150°C)			

Product feature

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



[Unit: inch]

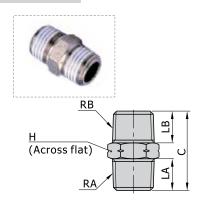
[Unit: inch]

One-touch fittings—threaded type

Dimensions

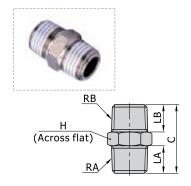
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NBB Series



Model\Item	RA	RB	LA	LB	С	Н	Weight(g)
NBB1/8-1/8	NPT1/8	NPT1/8	0.30	0.30	0.77	7/16	7.3
NBB1/8-1/4	NPT1/4	NPT1/8	0.39	0.30	0.89	9/16	12.4
NBB1/8-3/8	NPT3/8	NPT1/8	0.43	0.30	0.94	11/16	18.9
NBB1/4-1/4	NPT1/4	NPT1/4	0.39	0.39	0.98	9/16	14.9
NBB1/4-3/8	NPT3/8	NPT1/4	0.43	0.39	1.04	11/16	20.9
NBB1/4-1/2	NPT1/2	NPT1/4	0.55	0.39	1.18	7/8	36.6
NBB3/8-3/8	NPT3/8	NPT3/8	0.43	0.43	1.08	11/16	23.8
NBB3/8-1/2	NPT1/2	NPT3/8	0.55	0.43	1.22	7/8	38.5
NBB1/2-1/2	NPT1/2	NPT1/2	0.55	0.55	1.34	7/8	45.1

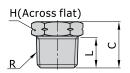
BB Series



							[Unit: mm]
Model\Item	RA	RB	LA	LB	С	Н	Weight(g)
BB0101	PT1/8	PT1/8	7.5	7.5	19.5	10	6.6
Bb0102	PT1/4	PT1/8	10	7.5	22.5	14	12.1
BB0103	PT3/8	PT1/8	11	7.5	24	17	18.3
BB0202	PT1/4	PT1/4	10	10	25	14	14.6
BB0203	PT3/8	PT1/4	11	10	26.5	17	20.3
BB0204	PT1/2	PT1/4	14	10	30	21	34.3
BB0303	PT3/8	PT3/8	11	11	27.5	17	23.2
BB0304	PT1/2	PT3/8	14	11	31	21	36.2
BB0404	PT1/2	PT1/2	14	14	34	21	42.8

NBZ Series

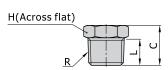




Model\Item	R	L	С	Н	Weight(g)
NBZ1/8	NPT1/8	0.30	0.43	7/16	5.1
NBZ1/4	NPT1/4	0.39	0.57	9/16	11.1
NBZ3/8	NPT3/8	0.43	0.63	11/16	18.0
NBZ1/2	NPT1/2	0.55	0.77	7/8	35.2

BZ Series





					[Unit: mm]
Model\Item	R	L	С	Н	Weight(g)
BZ01	PT1/8	7.5	11	10	4.6
BZ02	PT1/4	10	14.5	14	10.8
BZ03	PT3/8	11	16	17	17.4
BZ04	PT1/2	14	19.5	21	33



[Unit: inch]

[Unit: mm]

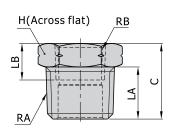
[Unit: inch]

One-touch fittings—threaded type

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NBD Series

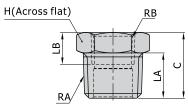




Model\Item	RA	RB	LA	LB	С	Н	Weight(g)
NBD1/8-1/4	NPT1/4	NPT1/8	0.39	0.31	0.57	9/16	9.1
NBD1/8-3/8	NPT3/8	NPT1/8	0.43	0.31	0.63	11/16	17.7
NBD1/8-1/2	NPT1/2	NPT1/8	0.55	0.31	0.77	7/8	35.3
NBD1/4-3/8	NPT3/8	NPT1/4	0.43	0.43	0.63	11/16	13.3
NBD1/4-1/2	NPT1/2	NPT1/4	0.55	0.43	0.77	7/8	32.1
NBD3/8-1/2	NPT1/2	NPT3/8	0.55	0.47	0.77	7/8	24.7

BD Series

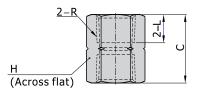




Model\Item	RA	RB	LA	LB	С	Н	Weight(g)
BD0102	PT1/4	PT1/8	10	8	14.5	14	8.8
Bd0103	PT3/8	PT1/8	11	8	16	17	17.1
BD0104	PT1/2	PT1/8	14	8	19.5	21	33.1
BD0203	PT3/8	PT1/4	11	11	16	17	12.7
BD0204	PT1/2	PT1/4	14	11	19.5	21	29.9
BD0304	PT1/2	PT3/8	14	12	19.5	21	22.5

NBU Series

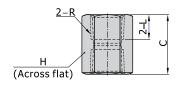




	Model\Item	R	L	С	Н	Weight(g)
	NBU1/8-1/8	NPT1/8	0.31	0.67	7/16	5.1
ĺ	NBU1/4-1/4	NPT1/4	0.43	0.91	9/16	8.9
	NBU3/8-3/8	NPT3/8	0.47	0.98	11/16	15.8
	NBU1/2-1/2	NPT1/2	0.53	1.10	7/8	19.3

BU Series





[Unit: mm]								
Model\Item	R	L	С	Н	Weight(g)			
BU0101	PT1/8	8	17	14	4.7			
Bu0202	PT1/4	11	23	17	8.1			
BU0303	PT3/8	12	25	21	12.7			
BU0404	PT1/2	13.5	28	25	18.0			

Accessories—One-Touch Fittings One-touch fittings—threaded type



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Ordering code

NBKC 1/4-1/8

1 2

1)Model

3/8: Ф3/8

1/2: Φ1/2

NBKC: Straight locknut connector



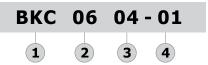
②Tubing outer diameter 5/32: Φ5/32 1/4: Φ1/4 5/16: Φ5/16

L 1 1 3 1

3Thread connection

U10: #10-32UNF 1/8: NPT1/8 1/4: NPT1/4 3/8: NPT3/8 1/2: NPT1/2

3



Model

BKC: Straight locknut connector

2Tubing outer diameter
04: Φ4mm
06: Φ6mm
08: Φ8mm
10: Φ10mm
12: Φ12mm

 ③Tubing inner diameter
 ④Thread connection

 25: Φ2.5mm
 M3: M3X0.5

 04: Φ4mm
 M5: M5X0.8

 05: Φ5mm
 01: PT1/8

 06: Φ6mm
 02: PT1/4

 65: Φ6.5mm
 03: PT3/8

 75: Φ7.5mm
 04: PT1/2

 08: Φ8mm

08: Φ8mm 09: Φ9mm

Note: When using the tubing $\Phi8\times\Phi5.5$,

the straight lock nut connector of BKC0806can be used.

Table for interface port and tube O.D.

Product	Tubing	Tubing	Thread connection								
series	O.D.	I.D.	#10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2				
	5/32	5/32	•	•							
	1/4	5/32		•	•	•					
NBKC	5/16	1/5		•	•	•					
	3/8	1/4			•	•	•				
	1/2	1/3			•	•	•				

Product	Tubing outer	Tubing inner	Thread connection								
series			МЗ	М5	PT1/8	PT1/4	PT3/8	PT1/2			
	04	25	•	•	•						
	06	04			•	•	•				
	08	05			•	•	•				
ВКС		06			•	•	•				
BKC	10	65				•	•	•			
	10	75				•	•	•			
	12	08				•	•	•			
	12	09				•	•	•			

Specification

Operating pressure range	0~145psi(0~1.0MPa)
Negative pressure	10Torr(-750mmHg)
Proof pressure	435psi(3.0MPa)
Ambient and fluid temperature	32~302°F(0~150°C)

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

Product feature

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







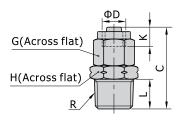
[Unit: inch]

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Dimensions

NBKC Series

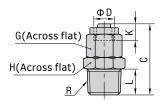




Model\ Ttom	Model\Item Tube dim. ΦD R L		ь		LC	К	G	н	Weight(g)
Model/Item			_		, ,	ď	-	weight(g)	
NBKC5/32-U10	5/32	3/32	#10-32UNF	0.14	0.69	0.20	5/16	5/16	4.8
NBKC5/32-1/8	3/32	3/32	NPT1/8	0.30	0.81	0.20	5/16	7/16	8.2
NBKC1/4-1/8	1/4		NPT1/8	0.30	0.87			7/16	11.0
NBKC1/4-1/4		5/32	NPT1/4	0.39	1.00	0.22	7/16	9/16	16.3
NBKC1/4-3/8			NPT3/8	0.43	1.06			11/16	23.7
NBKC5/16-1/8			NPT1/8	0.30	0.94	0.26	1/2	1/2	13.7
NBKC5/16-1/4	5/16	1/5	NPT1/4	0.39	1.08			9/16	17.7
NBKC5/16-3/8			NPT3/8	0.43	1.14			11/16	24.9
NBKC3/8-1/4			NPT1/4	0.39	1.18	0.30	5/8	5/8	27.1
NBKC3/8-3/8	3/8	1/4	NPT3/8	0.43	1.24			11/16	30.3
NBKC3/8-1/2			NPT1/2	0.55	1.40			7/8	48.7
NBKC1/2-1/4			NPT1/4	0.39	1.18	0.30	11/1	11/16	31.6
NBKC1/2-3/8	1/2	1/3	NPT3/8	0.43	1.24			11/16	33.3
NBKC1/2-1/2			NPT1/2 0.55 1.40			7/8	51.4		

BKC Series





[Unit: mm]

Model\Item	Tubing diameter Ф D		R	L	С	К	G	н	Woight(a)	
Model (Itelli	O.D	I.D	K	_		, r	G	-	Weight(g)	
BKC0425-M3			M3×0.5	3	17			8	4.4	
BKC0425-M5	4	2.5	$M5 \times 0.8$	3.5	17.5	5	8	8	4.8	
BKC0425-01			PT1/8	7.5	20.5			10	7.1	
BKC0604-01			PT1/8	7.5	22			10	9.9	
BKC0604-02	6	4	PT1/4	10	25.5	5.5	10	14	15.8	
BKC0604-03			PT3/8	11	27			17	22.5	
BKC0805-01			PT1/8	7.5	24		12	12	12.8	
BKC0805-02		5	PT1/4	10	27.5			14	17.2	
BKC0805-03	8		PT3/8	11	29	6.5		17	23.7	
BKC0806-01		0		PT1/8	7.5	24	0.5	12	12	13.1
BKC0806-02		5.5or6	PT1/4	10	27.5			14	17.2	
BKC0806-03			PT3/8	11	29			17	23.6	
BKC1065-02		6.5	PT1/4	10	30	7.5	15	15	25.3	
BKC1065-03			PT3/8	11	31.5			17	29.1	
BKC1065-04	10		PT1/2	14	35.5			21	44	
BKC1075-02	10	7.5	PT1/4	10	30	7.5	13	15	24.1	
BKC1075-03		or	PT3/8	11	31.5			17	28.9	
BKC1075-04		8	PT1/2	14	35.5			21	43.6	
BKC1208-02			PT1/4	10	30			17	30.5	
BKC1208-03		8	PT3/8	11	31.5			17	32.1	
BKC1208-04	12		PT1/2	14	35.5	7.5	17	21	46.7	
BKC1209-02	12	9	PT1/4	10	30	7.5	1/	17	30.6	
BKC1209-03		or	PT3/8	11	31.5			17	31.9	
BKC1209-04		10	PT1/2	14	35.5			21	46 4	

Installation and application

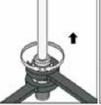
- 1. Method of inserting or removal a tubing
- 1.1 Inserting a tubing

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

- 1.2 Removing a tubing
 - Loosen the locking cap first, then remove the tubing. (As figure 2)
- 2. Method of tightening the connector thread

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





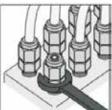


Figure 1

Figure 2

Figure 3

