





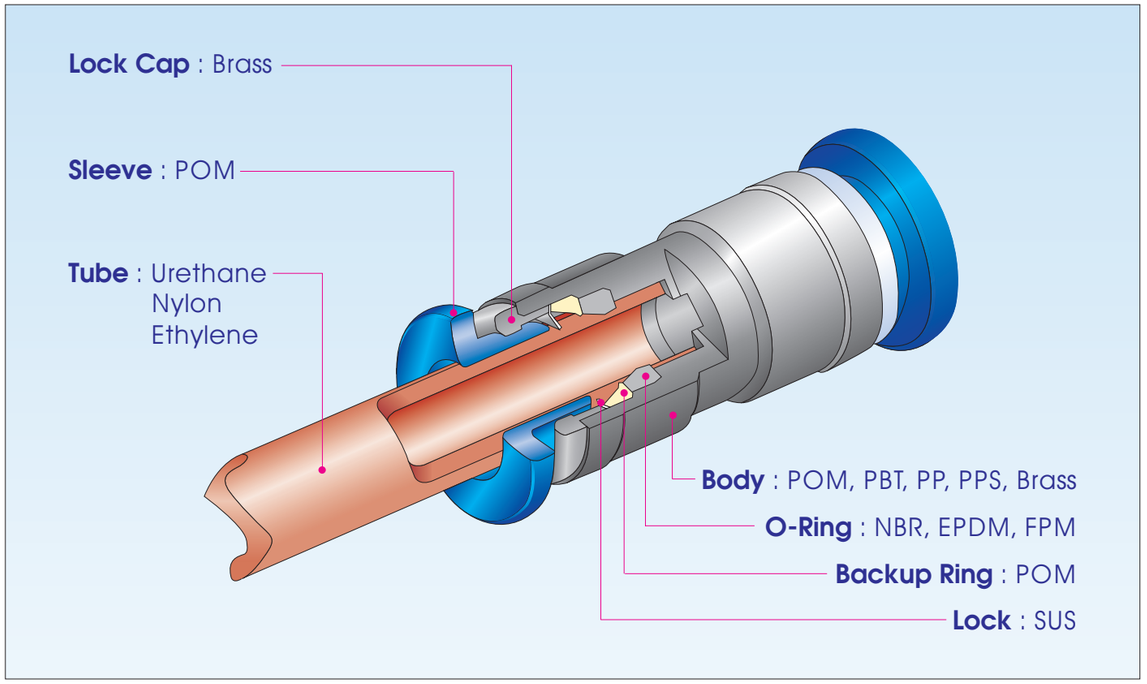









CONTENTS



Material Standards

Material	Fittings Color	O-ring
P. B. T (Polybutylens Terephthalate)	Black	NBR EPDM FPM
P. P (Polypropylens)	Black, White	
P.P.S (Polyphenylene Sulfide)	Black	
P.O.M (Poly Oxy Methylene)	Blue, Red	
Brass (Brass, Chromium plating)	Gold, Silver	

Fluid Media Pressure & Temperature

Fluid / Condition	Air	Water
Pressure	0~1.0Mpa(10kgf/cm²)	0~1.03Mpa(10.3kgf/cm²)
Vacuum Pressure	-750mmHg(10 Torr)	—
Temperature	0℃ ~ 60℃	

※Make appropriate selections in case of using water as fluid

Tube Tolerances for DMfit Pneumatic

Metric Size	Tolerance		Inch Size	Tolerance	
	Urethane	Nylon		Urethane	Nylon
3mm	±0.1	±0.1	1/8″	±0.004″	±0.004″
4mm	±0.1	±0.1	5/32″	±0.004″	±0.004″
6mm	±0.1	±0.1	1/4″	±0.004″	±0.004″
8mm	±0.1	±0.1	5/16″	±0.004″	±0.004″
10mm	±0.1	±0.1	3/8″	±0.004″	±0.004″
12mm	±0.1	±0.1	1/2″	±0.004″	±0.004″
16mm	±0.1	±0.1	5/8″	±0.004″	±0.004″

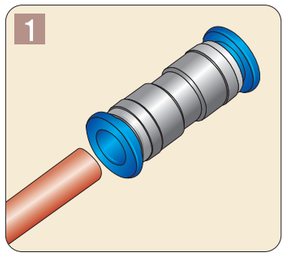
Max Torque

Torque / Thread			M3	M5	M6	1/8″	1/4″	3/8″	1/2″
Plastic	Maximum Torque	(N·m)	1.5					3.0	
		(kgf·cm)	15					30	
Metal	Maximum Torque	(N·m)	0.7	1~1.5	1.8~2.3	7.0~9.0	12.0~14.0	22.0~24.0	28.0~30.0
		(kgf·cm)	7	10~15	18~23	70~90	120~140	220~240	280~300

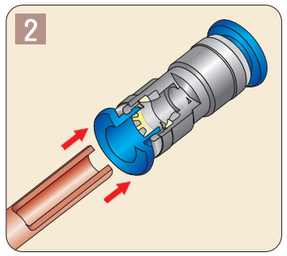
※ Make appropriate selections in case of using water as fluid.

Work Method

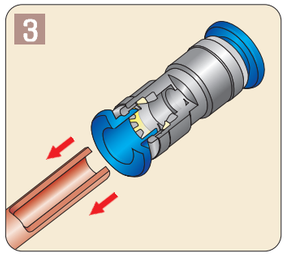
- DMfit pneumatic fittings are of one-touch type developed to facilitate connection of fittings with tubes while avoiding the inconvenience of using existing two-touch fittings in various machining systems and factory automation facilities.
- Existing methods attempt to hold tube with multiple metal pieces. DMfit pneumatic fittings minimize scratches during tube insertion and disassembly to prevent air leakage while ensuring no leakage through multiple uses. The following steps ensure prevention of air leakage and facilitate assembly / disassembly.



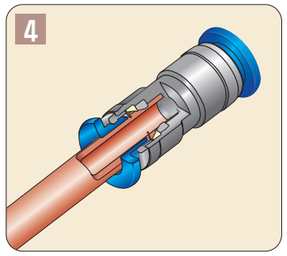
- Cut the tube end to be inserted into a fitting using DM Cutter squarely.
- Make sure the Tube surface to be inserted is clean without any defects.
- Remove foreign matters from the screw area if any.



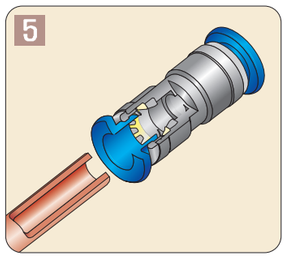
- Push Tube in fully beyond temporary holding.
- Full insertion is possible with reasonable force and Tube surface scratching is avoided.
- In case of a screw fitting, use a tool to tighten to specified torque level (refer to Page 4).



- After insertion, pull out the fitting a little. If you do not want any slack between Tube and Fitting, hold Collet and push Tube in again. And use DMT's LC to eliminate the slack inside of Fitting.



- Ensure that the pressure inside of Fitting is zero. Compress Collet towards Body fully and separate Tube.



- Do not shake or rotate Tube when opening Tube to ensure long life of Fitting and Tube.
- Fittings and Tube can be reused selectively.

Instructions

※ When using Fittings for any fluid other than air, please confer with DMT Technical Department.

※ Photographs in this catalog may be different from actual products. Product specifications can be modified for product development purposes without prior notices.

General Properties of Materials

● POM (Acetal)

POM shows excellent resistance against organic chemicals, organic compounds, chemical detergents and inorganic chemicals except strong acids.

● PBT (Polybutylene Terephalate)

PBT is rigid, resilient and tough. It has strong wear resistance against fatigue induced damage and creeping. It shows dimensional stability, low friction coefficient, hard surface and good dynamic friction property of moving parts.

● P · P (Polypropylene)

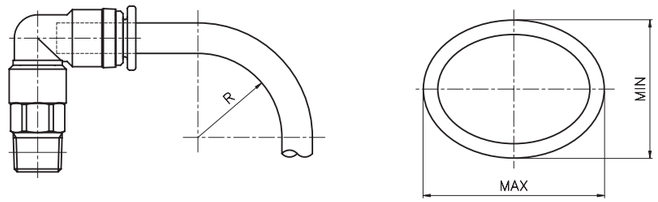
PP presents excellent chemical resistance, even against ordinary inorganic chemicals.

● PPS (Polyphenylene Sulfide)

PPS is a plastic material of excellent tenacity; high elasticity and impact strength; excellent thermal stability and workability. Also, it can be applied to where electric properties are required.

DMfit® Pneumatic Fittings Spec.

The outside diameter tolerance of a Tube is allowed tolerance of ±0.1mm from the specified diameter. In case of an oblong tube, we recommend Tubes with a difference between the outside diameter and the inside diameter within 0.2mm. Excessive pulling or bending of Tube after tubing completion can negatively impact on a product. Please refer to the following table for bending radius during piping work.



■ Tube Bending Radius

Tube Size	Standard Type					Mini Type		
	Φ4	Φ6	Φ8	Φ10	Φ12	Φ3	Φ4	Φ6
R	20	30	50	80	150	15	20	30

Tube Size	Standard Type						Mini Type		
	Φ5/32	Φ3/16	Φ1/4	Φ5/16	Φ3/8	Φ1/2	Φ1/8	Φ5/32	Φ1/4
R	20	25	30	50	80	150	15	20	30

Common Safety Instructions for DMfit Products

The following instructions are for correct use of DMfit products for prevention of bodily injuries and property damages. DMfit products are designed and manufactured for general industrial mechanical applications and the following instructions must be followed.

⚠ Danger

※ Do not use products for any of the following purposes.
① Devices for maintenance or management of human life and body functions.
② Devices for transport or movement of people.
③ Safety devices.

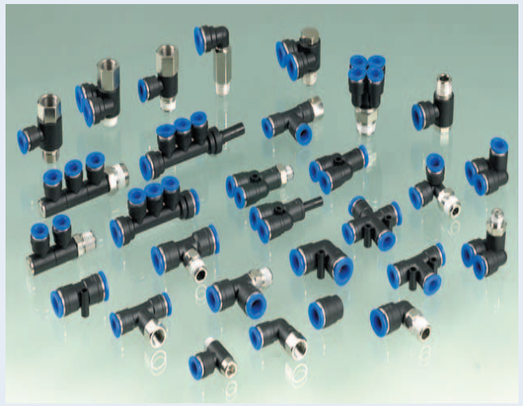
⚠ Warning

- Do not use products in any of the following circumstances.
  ① Conditions and specifications other than those specified for each product. (Check specified conditions for each product you wish to use before using it.)
  ② Outdoor applications.
  ③ Environments subject to excessive vibration or shock.
  ④ Environments subject to corrosive gas, chemical, sea water, water or vapor.
- However, certain exceptions are permitted by product. Pleases verify usage conditions and specifications of each product before using.
- Do not disassemble or modify products to suite user□ usage or purpose. It can cause problems to product performance.
- Remove all air in product or tubing during product installation or repair. Residual air pressure can cause bodily injury.
- Excessive frequency of air changes can cause product body overheating, which has the risk of bodily injury.

⚠ Safety Instructions

- Remove all dust and foreign matters prior to tubing work. They can cause product malfunction when induced into adjacent devices.
- When using very soft Tube in PBT unit, make sure to use Insert Ring inside the Tube of the device. Otherwise, tube slippage or air leakage can result.
- Do not mix use DMfit products with products of other manufacturers. This can result in malfunctions or poor performance. DMT will not be responsible for any consequences from such product mixed use.

PBT FITTINGS



ORDER INFORMATION

B TTS 06 (04) 06 M - (BK)

Tube O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Part Name	
Material	•Acetal : A •Polybutylene Terepthalate(PBT) : B
Tube O.D Stem O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8" 07=PT1/2", M5=M5×0.8P, M6=M6×1.0P
Stem O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Description	Metric Size : M
Body Color	•Black : BK

Usages

- One-touch fittings for pneumatic piping
- Each product comes with diverse functions and dimensions so that they are widely applicable to all piping situations.

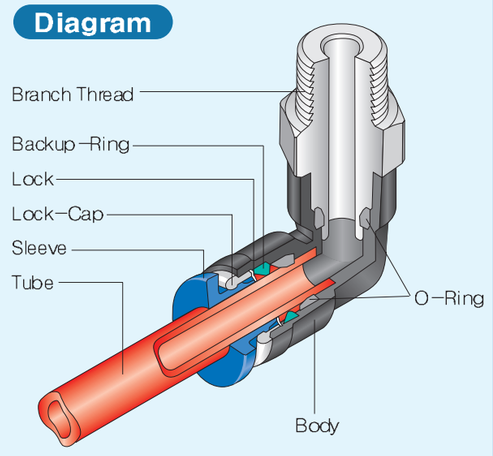
Features

- These one-touch fittings enable easy and safe connection, separation and repair of pneumatic piping.
- Oblong sleeves facilitate attachment and detachment of tubes even in confined spaces.
- Nickel surface plating presents excellent anti-corrosion performance.
- In case of fittings where PBT and Base are integrated, the tube outlet angle can be varied as desired depending on the combination of the screw unit and the main body, thus enabling efficient piping.
- Base branch screw unit has Teflon seal so that it can be conveniently assembled without separate sealing.

Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

Diagram



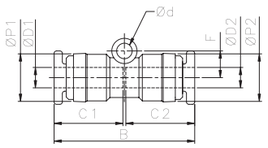
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- When assembling a tube to a fitting, make sure the tube is fully inserted into a fitting as shown in the diagram. Also, do not bend tube for assembly. Abnormal assembly can cause air leak or tube slippage.

⚠ Warning

- In case the fluid used is water, please verify product specification for water before using products.

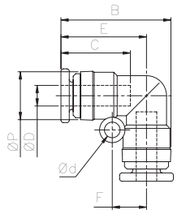
UC Union Connector



(Unit:mm)

Parts No.	Tube O.D ØD1	Tube O.D ØD2	ØP1	ØP2	C1	C2	B	F	Ød	Orifice Dia. (Ømm)	Qty (EA)
BUC 0404M	4	4	10	10	14	14	29	14	3.2	2	100
BUC 0604M	6	4	12	10	16	14	25	16	3.2	3	50
BUC 0606M		6	12	12	16	16	33			4	50
BUC 0806M	8	6	14	12	17	16	27	18	4.2	4	50
BUC 0808M		8	14	14	17	17	35			5	50
BUC 1008M	10	8	17.5	14	20	17	38	21	4.2	6	50
BUC 1010M		10	17.5	17.5	20	20	41			7	25
BUC 1210M	12	10	21.5	17.5	22	20	43	23	4.2	7	25
BUC 1212M		12	21.5	21.5	22	22	44			8	20
BUC 1612M	16	12	25.5	21.5	24	22	47	25	5.3	10	10
BUC 1616M		16	25.5	25.5	24	24	49			10	10

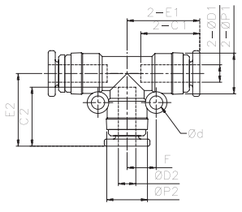
EU Elbow Union



(Unit:mm)

Parts No.	Tube O.D ØD	ØP	C	E	B	F	Ød	Orifice Dia. (Ømm)	Qty (EA)
BEU 0404M	4	10	14	17	22	7	3.2	2	100
BEU 0606M	6	12	16	20	26	8	3.2	4	50
BEU 0808M	8	14	17	23	30	9.5	4.2	6	50
BEU 1010M	10	17.5	20	27	36	11	4.2	7	25
BEU 1212M	12	21.5	22	31	42	13	4.2	8	20
BEU 1616M	16	25.5	24	35	48	13	5.3	13	10

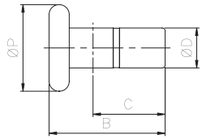
TU Tee Union



(Unit:mm)

Parts No.	Tube O.D ØD1	Tube O.D ØD2	ØP1	ØP2	C1	C2	E1	E2	F	Ød	Orifice Dia. (Ømm)	Qty (EA)
BTU 0404M	4	4	10	10	14	14	17	17	5.5	3.2	2	100
BTU 0604M	6	4	12	12	16	14	20	18	7.5	3.2	5	50
BTU 0606M		6	12	12	16	16	20	20	6.5	3.2	4	50
BTU 0806M	8	6	14	12	17	16	23	22	9	4.2	5	50
BTU 0808M		8	14	14	17	17	23	23	9.5	4.2	6	50
BTU 1008M	10	8	17.5	12	20	16	27	25	10.5	4.2	8	25
BTU 1010M		10	17.5	17.5	20	20	27	27	11	4.2	7	25
BTU 1210M	12	10	21.5	17.5	22	20	31	29	11	4.2	8	20
BTU 1212M		12	21.5	21.5	22	22	31	31	13	4.2	10	20
BTU 1616M	16	16	25.5	25.5	24	24	35	35	13	4.2	10	10

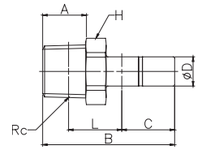
PL PLug



(Unit:mm)

Parts No.	Tube O.D ØD	C	B	ØP	Qty (EA)
BPL 04M	4	13.5	19.5	12.5	100
BPL 06M	6	16.5	22	15	100
BPL 08M	8	17	23	17	100
BPL 10M	10	19.5	26.5	19	50
BPL 12M	12	23	30	21	50
BPL 16M	16	24	34	25.5	25

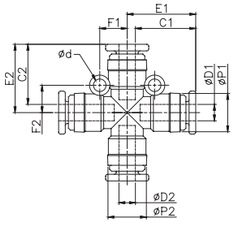
SA Stem Adapter



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread Rc	A	B	L	C	Hex H	Qty (EA)
BSA 04M5M	4	M5X0.8	4	27	9	7	10	100
BSA 0402M		PT1/8	10	33	14.5	13.5	14	100
BSA 0404M		PT1/4	14	36.5	16	13.5	17	100
BSA 06M5M	6	M5X0.8	4	27	9	7	10	50
BSA 0602M		PT1/8	10	34	12.5	16.5	14	50
BSA 0604M		PT1/4	14	38	15	16.5	17	50
BSA 0606M		PT3/8	14	38	15	16.5	19	50
BSA 0802M	8	PT1/8	10	34.5	10.5	17	17	50
BSA 0804M		PT1/4	14	39.5	15	17	17	50
BSA 0806M		PT3/8	14	39.5	15	17	19	50
BSA 0807M		PT1/2	19	43.5	15.5	19.5	24	50
BSA 1002M	10	PT1/8	10	38.5	10.5	38.5	38.5	25
BSA 1004M		PT1/4	14	42.5	16	38.5	38.5	25
BSA 1006M		PT3/8	14	43	16.5	38.5	19	25
BSA 1007M		PT1/2	19	44.5	15.5	38.5	24	25
BSA 1206M	12	PT3/8	14	46	16.5	23	24	20
BSA 1207M		PT1/2	19	51	18.5	23	24	20
BSA 1606M	16	PT3/8	14	50	17	24	24	10
BSA 1607M		PT1/2	19	55	19	24	24	10

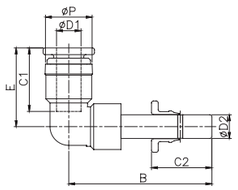
CRS CRosS



(Unit:mm)

Parts No.	Tube O.D ØD1	Tube O.D ØD2	ØP1	ØP2	C1	C2	E1	E2	F1	F2	Ød	Orifice Dia. (Ømm)	Qty (EA)
BCRS 0404M	4	4	10	10	14	14	17	17	7	7	3.2	3	100
BCRS 0606M	6	6	12	12	16	16	20	20	8	8	3.2	5	50
BCRS 0806M	8	6	14	12	17	16	23	20	9.5	8	4.2	7	50
BCRS 0808M		8	14	14	17	17	23	23	9.5	9.5	4.2	7	50
BCRS 1008M	10	8	17.5	14	20	17	27	23	11	9.5	4.2	8	25
BCRS 1010M		10	17.5	17.5	20	20	27	27	11	11	4.2	8	25
BCRS 1210M	12	10	21.5	17.5	22	20	31	27	13	11	4.2	10	20
BCRS 1212M		12	21.5	21.5	22	22	31	31	13	13	4.2	10	20

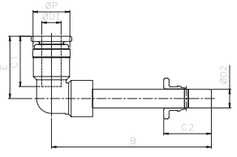
TEU Tube Elbow Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	øP	C1	C2	E	Orifice Dia. (Ømm)	Qty (EA)
BTEU 0404M	4	4	32.5	10	14	7	17	2	100
BTEU 0406M		6	36.5	10	14	8	17	3	100
BTEU 0606M	6	6	36.5	12	16	8	20	4	50
BTEU 0608M		8	36.5	12	16	8	20	4	50
BTEU 0808M	8	8	40	14	17	8	23	6	50
BTEU 0810M		10	40.5	14	17	10	23	7	50
BTEU 1010M	10	10	45.5	17.5	20	10	27	8	25
BTEU 1012M		12	45.5	17.5	20	10	27	7	25
BTEU 1212M	12	12	51.5	21.5	22	10.5	31	12	20
BTEU 1616M	16	16	58.5	25.5	24	13	35	12	10

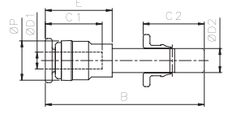
TEU-L Tube Elbow Union-Long



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	øP	C1	C2	E	Orifice Dia. (Ømm)	Qty (EA)
BTEU 0404ML	4	4	43	10	14	7	17	2	100
BTEU 0606ML	6	6	54	12	16	8	20	4	50
BTEU 0808ML	8	8	57	14	17	8	23	6	50
BTEU 1010ML	10	10	63	17.5	20	10	27	7	25
BTEU 1212ML	12	12	73	21.5	22	10.5	31	8	20
BTEU 1616ML	16	16	80	25.5	24	13	35	12	10

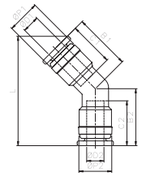
RD ReDucer



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	L	ø P	C1	C2	Orifice Dia. (Ømm)	Qty (EA)
BRD 0406M	4	6	39	31	10	16	8	3	100
BRD 0408M		8	41	33	10	16	8	3	100
BRD 0608M	6	8	43	35	12	17	8	5	50
BRD 0610M		10	45	35	12	17	10	5	50
BRD 0612M		12	47	37	12	17	10	5	50
BRD 0810M	8	10	48	38	14	18	10	7	50
BRD 0812M		12	49	38	14	18	10.5	7	50
BRD 1012M	10	12	52	52	17.5	18	10.5	8	25

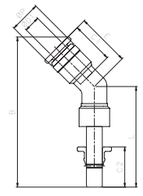
OC Offset Connector



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B1	B2	ø P1	ø P2	C1	C2	L	Orifice Dia. (Ømm)	Qty (EA)
BOC 0404M	4	4	17.5	17.5	10	10	14	14	30	2	100
BOC 0406M		6	20.5	17.5	12	10	16	14	31.5	2	100
BOC 0606M	6	6	20.5	20.5	12	12	16	16	31.5	4	50
BOC 0608M		8	24	20.5	14	12	17	16	40	4	50
BOC 0808M	8	8	24	24	14	14	17	17	42	6	50
BOC 0810M		10	28	24	17.5	14	20	17	47	6	50
BOC 1010M	10	10	28	28	17.5	17.5	20	20	50	7	25
BOC 1012M		12	32	28	21.5	17.5	22	20	56.5	7	25
BOC 1212M	12	12	32	32	21.5	21.5	22	22	58.5	8	20

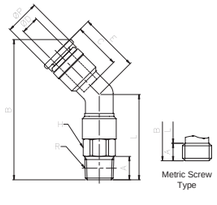
OCS Offset Connector Stem



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	øP	C1	C2	E	Orifice Dia. (Ømm)	Qty (EA)
BOCS 0404M	4	4	58.5	10	14	14	17	2	100
BOCS 0406M		6	62.5						100
BOCS 0606M	6	6	68	12	16	16	20	4	50
BOCS 0608M		8	68						50
BOCS 0808M	8	8	76	14	17	17	23	6	50
BOCS 0810M		10	84.5						50
BOCS 1010M	10	10	89.5	17.5	20	20	27	7	25
BOCS 1012M		12	98						25
BOCS 1212M	12	12	104	21.5	22	22	31	8	20

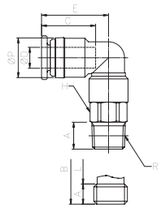
OCB Offset Connector Branch



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BOCB 04M5M	4	M5X0.8	5	33.5	31.5	10	14	17	12	2.5	100
BOCB 04M6M		M6X1.0	6	34.5	32.5				12	2.5	100
BOCB 0402M		PT1/8	8	38	34				12	2.5	100
BOCB 0404M		PT1/4	11	41	35				14	2.5	100
BOCB 0406M		PT3/8	12	42	35.5				17	2.5	100
BOCB 06M5M	6	M5X0.8	5	38	31.5	12	16	19	12	2.5	50
BOCB 06M6M		M6X1.0	6	39	32.5				12	2.5	50
BOCB 0602M		PT1/8	8	42.5	38.5				12	4	50
BOCB 0604M		PT1/4	11	45.5	39.5				14	4	50
BOCB 0606M		PT3/8	12	46.5	40				17	4	50
BOCB 0607M		PT1/2	15	49.5	41.5	14	17	22	22	4	50
BOCB 0802M	8	PT1/8	8	46	42				17	6	50
BOCB 0804M		PT1/4	11	49	43				17	6	50
BOCB 0806M		PT3/8	12	50	43.5				17	6	50
BOCB 0807M		PT1/2	15	53	45				22	6	50
BOCB 1002M	10	PT1/8	8	53	49	17.5	20	26	17	7	25
BOCB 1004M		PT1/4	11	56	50				17	7	25
BOCB 1006M		PT3/8	12	57	50.5				17	7	25
BOCB 1007M		PT1/2	15	60	52				22	7	25
BOCB 1202M	12	PT1/8	8	66.5	62.5	21.5	22	28	22	7	20
BOCB 1204M		PT1/4	11	69.5	63.5				22	7.5	20
BOCB 1206M		PT3/8	12	70.5	64.5				22	9	20
BOCB 1207M		PT1/2	15	73.5	65.5				22	9	20

EUB Elbow Union Branch

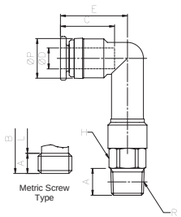


(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BEUB 04M5M	4	M5X0.8	4	23	24	10	14	17	10	2.5	100
BEUB 04M6M		M6X1.0	4	23	24				10	2.5	100
BEUB 0402M		PT1/8	8	24.5	25.5				10	2.5	100
BEUB 0404M		PT1/4	11	27.5	26.5				14	2.5	100
BEUB 0406M		PT3/8	12	29.5	28				17	2.5	100
BEUB 06M5M	6	M5X0.8	4	25	27	12	16	19	12	2.5	50
BEUB 06M6M		M6X1.0	4	25	27				12	2.5	50
BEUB 0602M		PT1/8	8	26.5	28.5				12	4	50
BEUB 0604M		PT1/4	11	29.5	29.5				14	4	50
BEUB 0606M		PT3/8	12	31.5	31				17	4	50
BEUB 0607M		PT1/2	15	34.5	34	14	17	22	17	6	50
BEUB 0802M	8	PT1/8	8	28.5	31.5				14	6	50
BEUB 0804M		PT1/4	11	31.5	32.5				14	6	50
BEUB 0806M		PT3/8	12	33	33.5				17	6	50
BEUB 0807M		PT1/2	15	37	36				22	6	50
BEUB 1002M	10	PT1/8	8	33.5	38.5	17.5	20	26	17	7	25
BEUB 1004M		PT1/4	11	35	37.5				17	7	25
BEUB 1006M		PT3/8	12	36.5	39				17	7	25
BEUB 1007M		PT1/2	15	40.5	40.5				22	7	25
BEUB 1202M	12	PT1/8	8	35.5	37.5	21.5	22	28	22	7	20
BEUB 1204M		PT1/4	11	38.5	38.5				22	7.5	20
BEUB 1206M		PT3/8	12	39.5	39				22	9	20
BEUB 1207M		PT1/2	15	43.5	41				22	9	20
BEUB 1606M	16	PT3/8	12	71	77	25	24	35	24	9	10
BEUB 1607M		PT1/2	15	74	78				24	9	10

● In case of the parts assembled with Branch, Its Plastic Body rotates so easily after the screw tighten.

EUB-L Elbow Union Branch-Long

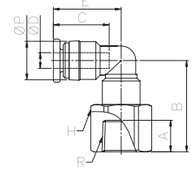


(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BEUB 04M5ML	4	M5X0.8	4	30.5	31.5	10	14	17	10	2.5	100
BEUB 04M6ML		M6X1.0	4	30.5	31.5				10	2.5	100
BEUB 0402ML		PT1/8	8	36.5	37.5				10	2.5	100
BEUB 0404ML		PT1/4	11	39.5	38.5				14	2.5	100
BEUB 0406ML		PT3/8	12	40.5	39.5				17	2.5	100
BEUB 06M5ML	6	M5X0.8	4	35.5	37.5	12	16	19	12	2.5	50
BEUB 06M6ML		M6X1.0	4	35.5	37.5				12	2.5	50
BEUB 0602ML		PT1/8	8	38	39				12	4	50
BEUB 0604ML		PT1/4	11	41	42				14	4	50
BEUB 0606ML		PT3/8	12	42	43				17	4	50
BEUB 0607ML		PT1/2	15	45	46	14	17	22	22	4	50
BEUB 0802ML	8	PT1/8	8	42.5	45.5				12	6	50
BEUB 0804ML		PT1/4	11	45.5	48.5				14	6	50
BEUB 0806ML		PT3/8	12	46.5	49.5				17	6	50
BEUB 0807ML		PT1/2	15	49.5	52.5				22	6	50
BEUB 1002ML	10	PT1/8	8	51	56	17.5	20	26	12	7	25
BEUB 1004ML		PT1/4	11	54	59				14	7	25
BEUB 1006ML		PT3/8	12	55	60				17	7	25
BEUB 1007ML		PT1/2	15	58	63				22	7	25
BEUB 1202ML	12	PT1/8	8	57.5	59.5	21.5	22	28	12	7.5	20
BEUB 1204ML		PT1/4	11	60.5	62.5				14	7.5	20
BEUB 1206ML		PT3/8	12	61.5	63.5				17	9	20
BEUB 1207ML		PT1/2	15	64.5	66.5				22	9	20

● When more than two Elbow Union fit into the tube in same direction, They can fit in the steps style

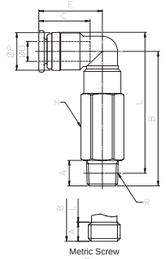
EUF Elbow Union branch Female



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BEUF 04M5M	4	M5X0.8	5	18	10	14	14	10	2.5	100
BEUF 04M6M		M6X1.0	5	18				10	2.5	100
BEUF 0402M		PT1/8	6	23				14	2.5	100
BEUF 0404M		PT1/4	9	26				17	2.5	100
BEUF 06M5M	6	M5X0.8	5	18	12	16	19	12	2.5	50
BEUF 06M6M		M6X1.0	5	18				12	2.5	50
BEUF 0602M		PT1/8	6	25				14	2.5	50
BEUF 0604M		PT1/4	9	28				17	2.5	50
BEUF 0606M		PT3/8	12	29				22	2.5	50
BEUF 0802M	8	PT1/8	9	27	14	17	22	14	5	50
BEUF 0804M		PT1/4	12	30				17	5	50
BEUF 0806M		PT3/8	13	31				22	5	50
BEUF 1004M	10	PT1/4	12	33	17	20	26	17	7	25
BEUF 1006M		PT3/8	13	34				22	7	25
BEUF 1007M		PT1/2	16	37				24	7	25
BEUF 1206M	12	PT3/8	13	34	21.5	22	31	22	9	20
BEUF 1207M		PT1/2	16	37				24	9	20

ELB Elbow union Long Branch

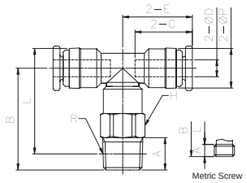


(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BELB 04M5M	4	M5X0.8	4	31	32	10	14	17	10	2.5	100
BELB 04M6M		M6X1.0	4	31	32				10	2.5	100
BELB 0402M		PT1/8	8	36	37				10	2.5	100
BELB 0404M		PT1/4	11	39	38				14	2.5	100
BELB 0406M		PT3/8	12	40.5	39				17	2.5	100
BELB 06M5M	6	M5X0.8	4	35.5	37.5	12	16	19	12	2.5	50
BELB 06M6M		M6X1.0	4	35.5	37.5				12	2.5	50
BELB 0602M		PT1/8	8	38	40				12	4	50
BELB 0604M		PT1/4	11	42	42				14	4	50
BELB 0606M		PT3/8	12	44.5	44				17	4	50
BELB 0802M	8	PT1/8	8	42.5	45.5	14	17	22	14	6	50
BELB 0804M		PT1/4	11	46.5	47.5				14	6	50
BELB 0806M		PT3/8	12	48	48.5				17	6	50
BELB 0807M		PT1/2	15	52.5	51.5				22	6	50
BELB 1002M	10	PT1/8	8	50.5	55.5	17.5	20	26	17	7	25
BELB 1004M		PT1/4	11	53.5	56.5				17	7	25
BELB 1006M		PT3/8	12	55	57.5				17	7	25
BELB 1007M		PT1/2	15	58.5	59.5				22	7	25
BELB 1202M	12	PT1/8	8	56	63	21.5	22	28	21	7	20
BELB 1204M		PT1/4	11	59	64				21	7.5	20
BELB 1206M		PT3/8	12	60.5	65				21	9	20
BELB 1207M		PT1/2	15	64	67				22	9	20
BELB 1606M	16	PT3/8	12	71	77	25	24	35	24	9	10
BELB 1607M		PT1/2	15	74	78				24	9	10

● When more than two Elbow Union fit into the tube in same direction, They can fit in the steps style

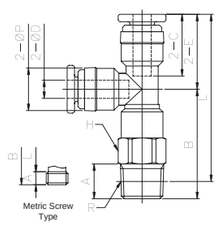
MTB Male Tee swivel Branch



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMTB 04M5M	4	M5X0.8	4	23	24	10	13.5	13.5	10	2.5	100
BMTB 04M6M		M6X1.0	4	23	24				10	2.5	100
BMTB 0402M		PT1/8	8	24	25.5				10	2.5	100
BMTB 0404M		PT1/4	11	27	26				14	2.5	100
BMTB 0406M		PT3/8	12	29	28				17	2.5	100
BMTB 06M5M	6	M5X0.8	4	25	27	12	15.5	16	12	2.5	50
BMTB 06M6M		M6X1.0	4	25	27				12	2.5	50
BMTB 0602M		PT1/8	8	26	28.5				12	4	50
BMTB 0604M		PT1/4	11	29	29				14	4	50
BMTB 0606M		PT3/8	12	31	31				17	4	50
BMTB 0802M	8	PT1/8	8	28.5	31.5	14	16.5	17	14	6	50
BMTB 0804M		PT1/4	11	31.5	32.5				14	6	50
BMTB 0806M		PT3/8	12	33	33.5				17	6	50
BMTB 0807M		PT1/2	15	37	36				22	6	50
BMTB 1002M	10	PT1/8	8	33.5	38	17.5	19.5	21	17	7	25
BMTB 1004M		PT1/4	11	35	37.5				17	7	25
BMTB 1006M		PT3/8	12	36.5	38.8				17	7	25
BMTB 1007M		PT1/2	15	40.5	41				22	7	25
BMTB 1202M	12	PT1/8	8	35.5	42.5	21.5	21	23	21	7	20
BMTB 1204M		PT1/4	11	38.5	43.5				21	7.5	20
BMTB 1206M		PT3/8	12	39.5	44				21	9	20
BMTB 1207M		PT1/2	15	43.5	46				22	9	20
BMTB 1606M	16	PT3/8	12	71	77	25	24	35	24	9	10
BMTB 1607M		PT1/2	15	74	78				24	9	10

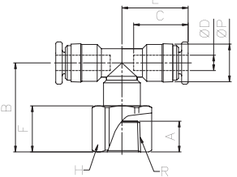
MRB Male Run swivel Branch



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMRB 04M5M	4	M5X0.8	4	23	36	10	14	17	10	2.5	100
BMRB 04M6M		M6X1.0	4	23	36				10	2.5	100
BMRB 0402M		PT1/8	8	24	37				10	2.5	100
BMRB 0404M		PT1/4	11	27	38				14	2.5	100
BMRB 0406M		PT3/8	12	29	40				17	2.5	100
BMRB 06M5M	6	M5X0.8	4	25	40	12	16	19	12	2.5	50
BMRB 06M6M		M6X1.0	4	25	40				12	2.5	50
BMRB 0602M		PT1/8	8	26	42				12	2.5	50
BMRB 0604M		PT1/4	11	29	43				14	2.5	50
BMRB 0606M		PT3/8	12	31	44				17	2.5	50
BMRB 0802M	8	PT1/8	8	28.5	46	14	17	22	14	6	50
BMRB 0804M		PT1/4	11	31.5	47				14	6	50
BMRB 0806M		PT3/8	12	33	48				17	6	50
BMRB 0807M		PT1/2	15	37	51				22	6	50
BMRB 1002M	10	PT1/8	8	33.5	55	17.5	20	26	17	7	25
BMRB 1004M		PT1/4	11	35	54				17	7	25
BMRB 1006M		PT3/8	12	36.5	56				17	7	25
BMRB 1007M		PT1/2	15	0.5	58				22	7	25
BMRB 1202M	12	PT1/8	8	35.5	62	21.5	22	30	22	7	20
BMRB 1204M		PT1/4	11	38.5	63				22	7.5	20
BMRB 1206M		PT3/8	12	39.5	63				22	9	20
BMRB 1207M		PT1/2	15	43.5	66				22	9	20
BMRB 1606M	16	PT3/8	12	43	66	25	24	35	24	9	10
BMRB 1607M		PT1/2	15	46	67				24	9	10

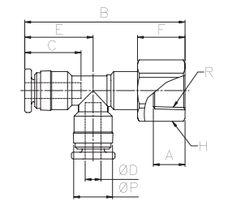
FTB Female Tee swivel Branch



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	ø P	C	E	F	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFTB 04M5M	4	M5X0.8	5	18	10	14	17	7	10	2.5	100
BFTB 04M6M		M6X1.0	6	19				8	10	2.5	100
BFTB 0402M		PT1/8	8	23				12	14	2.5	100
BFTB 0404M		PT1/4	11	2				15	17	2.5	100
BFTB 06M5M	6	M5X0.8	5	20	12	16	19	7	12	2.5	50
BFTB 06M6M		M6X1.0	6	21				8	12	2.5	50
BFTB 0602M		PT1/8	8	25				12	14	2.5	50
BFTB 0604M		PT1/4	11	28				15	17	2.5	50
BFTB 0606M		PT3/8	12	29				16	22	2.5	50
BFTB 0802M	8	PT1/8	8	27	14	17	22	12	14	5	50
BFTB 0804M		PT1/4	11	30				15	17	5	50
BFTB 0806M		PT3/8	12	31				16	22	5	50
BFTB 1004M	10	PT1/4	11	33	17	20	26	15	17	7	25
BFTB 1006M		PT3/8	12	34				16	22	7	25
BFTB 1007M		PT1/2	15	37				19	24	7	25
BFTB 1206M	12	PT3/8	12	36	21.5	22	31	16	22	9	20
BFTB 1207M		PT1/2	15	39				19	24	9	20

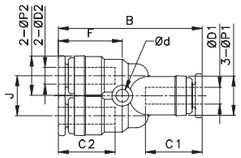
FRB Female Run swivel Branch



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	ø P	C	E	F	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFRB 04M5M	4	M5X0.8	5	35	10	14	17	7	10	2.5	100
BFRB 04M6M		M6X1.0	6	36				8	10	2.5	100
BFRB 0402M		PT1/8	8	40				12	14	2.5	100
BFRB 0404M		PT1/4	11	43				15	17	2.5	100
BFRB 06M5M	6	M5X0.8	5	40	12	16	19	7	12	2.5	50
BFRB 06M6M		M6X1.0	6	41				8	12	2.5	50
BFRB 0602M		PT1/8	8	45				12	14	2.5	50
BFRB 0604M		PT1/4	11	48				15	17	2.5	50
BFRB 0606M		PT3/8	12	49				16	22	2.5	50
BFRB 0802M	8	PT1/8	8	49	14	17	22	12	14	5	50
BFRB 0804M		PT1/4	11	52				15	17	5	50
BFRB 0806M		PT3/8	12	53				16	22	5	50
BFRB 1004M	10	PT1/4	11	59	17	20	26	15	17	7	50
BFRB 1006M		PT3/8	12	60				16	22	7	25
BFRB 1007M		PT1/2	15	63				19	24	7	25
BFRB 1206M	12	PT3/8	12	66	21.5	22	31	16	22	9	20
BFRB 1207M		PT1/2	15	69				19	24	9	20

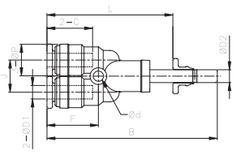
TD Two way Divider



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	B	øP1	øP2	C1	C2	ød	F	J	Orifice Dia. (Ømm)	Qty (EA)
BTD 0404M	4	4	36	10	10	14	14	3.2	14	10	3	100
BTD 0604M	6	4	37	12	10	16	14	3.2	14	10	3	50
BTD 0606M		6	38	12	12	16	16	3.2	16	15.5	5	50
BTD 0804M	8	4	38	14	10	17	14	3.2	14	10	3	50
BTD 0806M		6	41	14	12	17	16	3.2	16	12	5	50
BTD 0808M		8	45	14	14	17	17	4.2	19	16.5	7	50
BTD 1006M	10	6	41	17.5	12	20	16	3.2	16	12	5	50
BTD 1008M		8	48	17.5	14	20	17	4.2	19	14	7	25
BTD 1010M		10	49	17.5	17.5	20	20	4.2	21	19.5	7	25
BTD 1208M	12	8	48	21.5	14	22	17	4.2	19	14	7	25
BTD 1210M		10	52	21.5	17.5	22	20	4.2	21	17.5	7	20
BTD 1212M		12	54	21.5	21.5	22	22	4.2	23	21	10	20

TDR Two way Divider Reducer

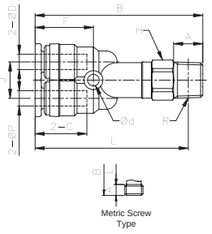


(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	ød	B	L	øP	C1	C2	J	F	Orifice Dia. (Ømm)	Qty (EA)
BTDR 0406M	4	6	3.2	55	47	10	8	14	10	14	4	100
BTDR 0608M	6	8	3.2	60	50	12	8	16	12	16	6	50
BTDR 0810M	8	10	4.2	69	60	14	10	17	14	19	7	50
BTDR 1012M	10	12	4.2	75.5	66	17.5	10.5	29	17.5	21	8	25

● Different size between the Tube and the Stem

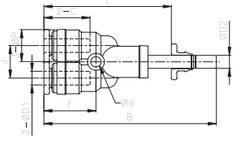
TDB Two way Divider Branch



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	øP	C	F	ød	J	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTDB 04M5M	4	M5X0.8	4	43	39	10	14	16	3.2	10	10	2.5	100
BTDB 04M6M		M6X1.0	4	43	39						10	2.5	100
BTDB 0402M		PT1/8	8	45	41						10	2.5	100
BTDB 0404M		PT1/4	11	48	41						14	2.5	100
BTDB 0406M		PT3/8	12	50	43						17	2.5	100
BTDB 06M5M	6	M5X0.8	4	46	42	12	16	16	3.2	12	12	2.5	50
BTDB 06M6M		M6X1.0	4	46	42						12	2.5	50
BTDB 0602M		PT1/8	8	46	43						12	4	50
BTDB 0604M		PT1/4	11	50	44						14	4	50
BTDB 0606M		PT3/8	12	52	46						17	4	50
BTDB 0802M	8	PT1/8	8	53	49	14	17	19	4.2	14	14	6	50
BTDB 0804M		PT1/4	11	56	50						14	6	50
BTDB 0806M		PT3/8	12	57	51						17	6	50
BTDB 0807M		PT1/2	15	61	53						22	6	50
BTDB 1002M	10	PT1/8	8	59	55	17.5	20	21	4.2	17.5	17	7	25
BTDB 1004M		PT1/4	11	61	55						17	7	25
BTDB 1006M		PT3/8	12	62	56						17	7	25
BTDB 1007M		PT1/2	15	66	58						22	7	25
BTDB 1202M	12	PT1/8	8	62	58	21.5	22	23	4.2	21.5	22	7	20
BTDB 1204M		PT1/4	11	65	59						22	7.5	20
BTDB 1206M		PT3/8	12	66	60						22	9	20
BTDB 1207M		PT1/2	15	70	62						22	9	20

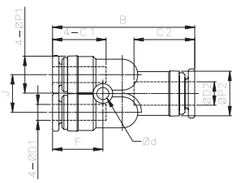
TDS Two way Divider Stem



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	øP	C	ød	F	J	Orifice Dia. (Ømm)	Qty (EA)
BTDS 0404M	4	4	52	45	10	3.2	10	15	2	100
BTDS 0606M	6	6	57	49	12	3.2	12	16	4	50
BTDS 0808M	8	8	64	54	14	4.2	14	18.5	6	50
BTDS 1010M	10	10	70.5	60.5	17.5	4.2	17.5	20.5	7	25
BTDS 1212M	12	12	77.5	67	21.5	4.2	21.5	22	8	20

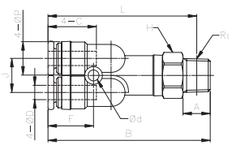
FU Four way Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	B	øP1	øP2	C1	C2	J	F	ød	Orifice Dia. (Ømm)	Qty (EA)
BFU 0406M	4	6	37	12	10	16	14	10	13	3.2	3	25
BFU 0608M	6	8	45	14	12	17	16	12	16	3.2	5	20

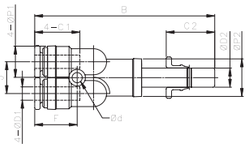
FUB Four way Union Branch



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread Rc	A	B	L	øP	C	J	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFUB 0402M	4	PT1/8	8	45	41	10	14	10	12	4	25
BFUB 0404M		PT1/4	11	48	42				14	4	25
BFUB 0602M	6	PT1/8	8	54	50	12	16	12	14	6	20
BFUB 0604M		PT1/4	11	57	51				14	6	20
BFUB 0606M		PT3/8	12	59	52				17	6	20

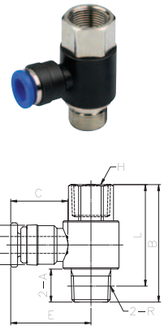
FUR Four way Union Reducer



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	øP1	øP2	C1	C2	J	F	ød	Orifice Dia. (Ømm)	Qty (EA)
BFUR 0406M	4	6	55	10	12	14	8	10	13	3.2	4	25
BFUR 0608M	6	8	65	12	14	16	8	12	16	3.2	6	20

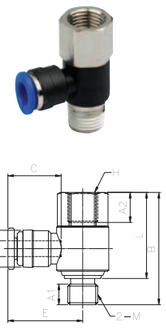
UEF Universal Elbow Female



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUEF 04M5M	4	M5X0.8	3.5	22	18.5	10	14	18	8	2.5	100
BUEF 04M6M		M6X1.0	3.5	22	18.5			18	8	2.5	100
BUEF 0402M		PT1/8	8	30.5	26.5			19	12	5	100
BUEF 0404M		PT1/4	11	33.5	29.5			19	17	7	100
BUEF 06M5M	6	M5X0.8	3.5	24	20.5	12	16	20	8	2.5	50
BUEF 06M6M		M6X1.0	3.5	24	20.5			20	8	2.5	50
BUEF 0602M		PT1/8	8	32.5	28.5			21	12	5	50
BUEF 0604M		PT1/4	11	38	32			23	17	7	50
BUEF 0606M		PT3/8	12	39	33			24	19	10	50
BUEF 0802M	8	PT1/8	8	35.5	31.5	14	17	23	12	5	50
BUEF 0804M		PT1/4	11	41	35			25	17	7	50
BUEF 0806M		PT3/8	12	43	37			26	19	10	50
BUEF 1002M	10	PT1/8	8	41	35	17.5	21	28	17	5	25
BUEF 1004M		PT1/4	11	44	38			28	17	7	25
BUEF 1006M		PT3/8	12	46	40			29	19	10	25
BUEF 1204M	12	PT1/4	11	49	43	21.5	22	31	19	7	20
BUEF 1206M		PT3/8	12	50	44			31	19	10	20
BUEF 1207M		PT1/2	15	57.5	49.5			34	24	12	20

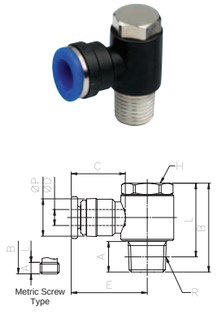
UEJ Universal Elbow Joint



(Unit:mm)

Parts No.	Tube O.D ø D	Metric Thread M	A1	A2	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUEJ 04M08M	4	M8X1.0	8.5	8	31.5	23	10	14	19	12	4	100
BUEJ 06M08M	6	M8X1.0	8.5	8	31.5	23	12	16	21	12	4	50
BUEJ 06M12M		M12X1.0	8.5	8	32	23.5	12	16	23	17	7	50
BUEJ 08M12M	8	M12X1.0	8.5	8	35	26.5	14	17	25	17	7	50
BUEJ 08M14M		M14X1.0	6	7	33	27	14	17	26	19	7.5	50
BUEJ 10M14M	10	M14X1.0	6	7	36	30	17.5	20	29	19	7.5	25
BUEJ 12M14M	12	M14X1.0	6	7	40	34	21.5	22	31	19	7.5	20
BUEJ 12M18M		M18X1.0	10	10	49	39	21.5	22	34	22	22	20

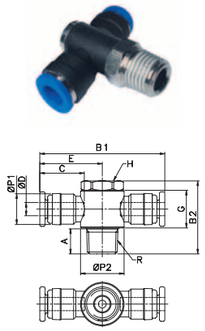
UES Universal Elbow Stop



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUES 04M5M	4	M5X0.8	4.5	21.5	17	10	14	18	8	2.5	100
BUES 04M6M		M6X1.0	4.5	21.5	17			18	8	3	100
BUES 0402M		PT1/8	8	25.5	21.5			19	10	5	100
BUES 0404M		PT1/4	11	29.5	23.5			21	14	7.5	100
BUES 06M5M	6	M5X0.8	4.5	23.5	18.8	12	16	20	8	2.5	50
BUES 06M6M		M6X1.0	4.5	23.5	18.8			20	8	3	50
BUES 0602M		PT1/8	8	27.5	23.5			21	10	5	50
BUES 0604M		PT1/4	11	31.5	25.5			23	14	7.5	50
BUES 0606M		PT3/8	12	32	25.8			25	17	10	50
BUES 0802M	8	PT1/8	8	30.5	26.5	14	17	23	10	5	50
BUES 0804M		PT1/4	11	34.5	28.5			25	14	7.5	50
BUES 0806M		PT3/8	12	35	29			26	17	10	50
BUES 0807M		PT1/2	15	39	30.5			29	10	12	50
BUES 1004M	10	PT1/4	11	37.5	31.5	17.5	20	28	14	7.5	25
BUES 1006M		PT3/8	12	38	32			29	17	10	25
BUES 1007M		PT1/2	15	42	33.5			34	22	12	25
BUES 1206M	12	PT3/8	12	42	36	21.5	22	31	17	10	20
BUES 1207M		PT1/2	15	46	37.5			31	22	12	20

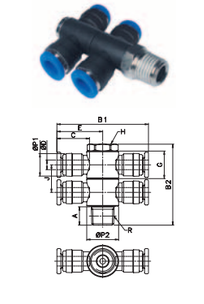
UTS Universal Tee Stop



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B1	B2	G	øP1	øP2	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUTS 0402M	4	PT1/8	8	38	23	12	10	10	12	19	10	5	100
BUTS 0602M	6	PT1/8	8	42	25	14	12	12	14	21	10	5	50
BUTS 0604M		PT1/4	11	46	28					23	14	7.5	50
BUTS 0802M	8	PT1/8	8	46	28	17	14	14	17	23	10	5	50
BUTS 0804M		PT1/4	11	50	31					25	14	7.5	50
BUTS 0806M		PT3/8	12	52	32					26	17	10	50
BUTS 1004M	10	PT1/4	11	56	34	20	17.5	17.5	20	28	14	7.5	25
BUTS 1006M		PT3/8	12	58	35					29	17	10	25
BUTS 1206M	12	PT3/8	12	62	39	22	21.5	21.5	24	31	17	10	20
BUTS 1207M		PT1/2	15	62	42					31	22	12	20

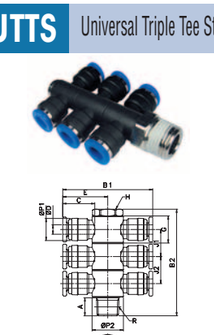
UDTS Universal Double Tee Stop



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B1	B2	G	øP1	øP2	C	E	J	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUDTS 0402M	4	PT1/8	8	38	50	12	10	10	12	19	12	10	5	100
BUDTS 0602M	6	PT1/8	8	42	56	14	12	12	14	21	14	10	5	50
BUDTS 0604M		PT1/4	11	46	60					23	14	14	7.5	50
BUDTS 0802M	8	PT1/8	8	46	63	17	14	14	17	23	17	10	5	50
BUDTS 0804M		PT1/4	11	50	67					25	17	14	7.5	50
BUDTS 0806M		PT3/8	12	52	69					26	17	17	10	50
BUDTS 1004M	10	PT1/4	11	56	76	20	17.5	17.5	20	28	20	14	7.5	25
BUDTS 1006M		PT3/8	12	58	78					29	20	17	10	25
BUDTS 1206M	12	PT3/8	12	62	76	22	21.5	21.5	24	31	24	17	10	20
BUDTS 1207M		PT1/2	15	62	76					31	24	22	12	20

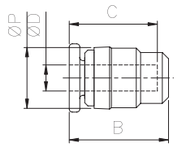
UTTS Universal Triple Tee Stop



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B1	B2	G	øP1	øP2	C	E	J1	J2	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUTTS 0402M	4	PT1/8	8	38	62	12	10	10	12	19	12	12	10	5	100
BUTTS 0602M	6	PT1/8	8	42	70	14	12	12	14	21	14	14	10	5	50
BUTTS 0604M		PT1/4	11	46	74					23			14	7.5	50
BUTTS 0802M	8	PT1/8	8	46	80	17	14	14	17	23	17	17	10	5	50
BUTTS 0804M		PT1/4	11	50	84					25			14	7.5	50
BUTTS 0806M		PT3/8	12	52	86					26			17	10	50
BUTTS 1004M	10	PT1/4	11	56	96	20	17.5	17.5	20	28	20	20	14	7.5	25
BUTTS 1006M		PT3/8	12	58	98					29			17	10	25
BUTTS 1206M	12	PT3/8	12	62	100	22	21.5	21.5	24	31	24	24	17	10	20
BUTTS 1207M		PT1/2	15	62	100					31			22	12	20

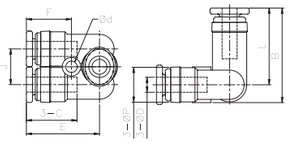
TS Tube Stop



(Unit:mm)

Parts No.	Tube O.D ØD	C	B	ØP	Qty (EA)
BTS 04M	4	12	16	10	100
BTS 06M	6	16	18	12	50
BTS 08M	8	17	21	14	50
BTS 10M	10	20	23	17.5	25
BTS 12M	12	22	25	21.5	20

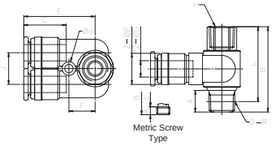
TE Two way Elbow



(Unit:mm)

Parts No.	Tube O.D ØD	B	L	ØP	C	J	E	F	Ød	Orifice Dia. (Ømm)	Qty (EA)
BTE 0404M	4	22	17	10	14	10	19.5	12	3.2	3	100
BTE 0606M	6	27	21	12	16	12	21.5	13	3.2	5	50
BTE 0808M	8	30	23	14	17	14	24.5	15	4.2	6	50
BTE 1010M	10	36	37	17.5	20	17.5	34.5	23	4.2	7	25
BTE 1212M	12	40	30	21.5	22	21.5	33.5	20	4.2	8	20

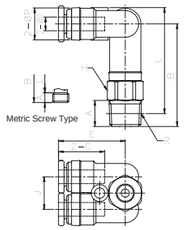
TEF Two way Elbow Female



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	A	B	L	ØP	C	E	J	F	Ød	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEF 04M5M	4	M5X0.8	3.5	22	18.5	10	14	21	8	12	3.2	8	2.5	100
BTEF 0602M	6	PT1/8	8.5	32.5	28.5	12	16	26	12	17	3.2	12	5	50
BTEF 0804M	8	PT1/4	11	41	35	14	17	31	17	19	4.2	17	7	50
BTEF 1006M	10	PT3/8	12	46	40	17.5	20	34	19	20	4.2	19	10	25
BTEF 1206M	12	PT3/8	12	50	44	21.5	22	39	19	22	4.2	19	10	20
BTEF 1207M		PT1/2	15	57.5	50	21.5	22	39	24	22	4.2	24	12	20

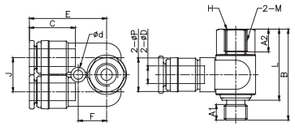
TEB Two way Elbow Branch



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	A	B	L	ØP	C	J	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEB 04M5M	4	M5X0.8	4	25.5	26.5	10	13.5	10	19.5	10	2.5	100
BTEB 04M6M		M6X1.0	4	25.5	26.5					10	2.5	100
BTEB 0402M		PT1/8	8	26.5	27.5					10	2.5	100
BTEB 0404M		PT1/4	11	29.5	28.5					14	2.5	100
BTEB 06M5M	6	M5X0.8	4	29.5	31.5	12	15.5	12	21.5	12	2.5	50
BTEB 06M6M		M6X1.0	4	29.5	31.5					12	2.5	50
BTEB 0602M		PT1/8	8	31	33					12	4	50
BTEB 0604M		PT1/4	11	34	34					14	4	50
BTEB 0606M		PT3/8	12	36	35.5					17	4	50
BTEB 0802M	8	PT1/8	8	32	35	14	16.5	14	24.5	14	6	50
BTEB 0804M		PT1/4	11	35	36					14	6	50
BTEB 0806M		PT3/8	12	36.5	37					17	6	50
BTEB 0807M		PT1/2	15	46	38					22	6	50
BTEB 1004M	10	PT1/4	11	38.5	41.5	17.5	19.5	17.5	34.5	17	7	25
BTEB 1006M		PT3/8	12	40	42.5					17	7	25
BTEB 1007M		PT1/2	15	44	45					22	7	25
BTEB 1204M	12	PT1/4	11	42	46.5	21.5	21	21.5	33.5	22	7.5	20
BTEB 1206M		PT3/8	12	43	47					22	9	20
BTEB 1207M		PT1/2	15	47	49.5					22	9	20

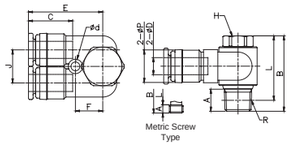
TEJ Two way Elbow Joint



(Unit:mm)

Parts No.	Tube O.D ØD	Metric Thread M	A1	A2	B	L	ØP	C	E	J	F	Ød	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEJ 06M10M	6	M10X1.0	4	5	34	34	12	16	26	12	13	3.2	12	4	50
BTEJ 08M12M	8	M12X1.0	5	6	35	36	14	17	31	14	15	4.2	17	6	50
BTEJ 10M14M	10	M14X1.0	6	7	36	30	17.5	20	34	17.6	20	4.2	19	7.5	50
BTEJ 12M18M	12	M18X1.0	10	10	49	39	21.5	22	39	21.5	22	4.2	22	12	50

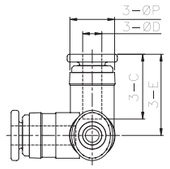
TEP Two way Elbow stoP



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	A	B	L	ØP	C	E	J	F	Ød	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEP 04M5M	4	M5X0.8	4.5	21.5	17	10	14	21	10	12	3.2	8	2.5	100
BTEP 0602M	6	PT1/8	8	27.5	23.5	12	16	26	12	17	3.2	8	3	50
BTEP 0804M	8	PT1/4	11	34.5	28.5	14	17	31	14	19	4.2	14	7.5	50
BTEP 1006M	10	PT3/8	12	38	32	17.5	20	34	17.5	20	4.2	17	10	25
BTEP 1206M	12	PT3/8	12	42	36	21.5	22	39	21.5	22	4.2	17	10	20
BTEP 1207M		PT1/2	15	46	37.5	21.5	22	39	21.5	22	4.2	22	12	20

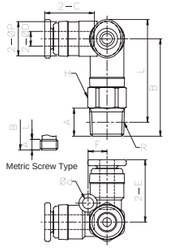
TA TriAngle union



(Unit:mm)

Parts No.	Tube O.D Ø D	C	E	ØP	F	Ø d	Orifice Dia. (Ømm)	Qty (EA)
BTA 0404M	4	14	17	10	12	3.2	3	100
BTA 0606M	6	16	21	12	14	3.2	5	50
BTA 0808M	8	17	24	14	16	4.2	7	50
BTA 1010M	10	20	28	17.5	19	4.2	9	25
BTA 1212M	12	22	31	21.5	21	4.2	11	20

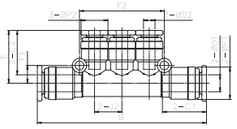
TAB TriAngle union Branch



(Unit:mm)

Parts No.	Tube O.D Ø D	PT Thread R	A	B	L	ØP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTAB 04M5M	4	M5X0.8	4	25.5	26.5	10	14	17	10	2.5	100
BTAB 04M6M		M6X1.0	4	25.5	26.5				10	2.5	100
BTAB 0402M		PT1/8	8	27	28				10	2.5	100
BTAB 0404M		PT1/4	11	30	29				14	2.5	100
BTAB 06M5M	6	M5X0.8	4	29	31	12	16	21	12	2.5	50
BTAB 06M6M		M6X1.0	4	29	31				12	2.5	50
BTAB 0602M		PT1/8	8	30.5	32.5				12	4	50
BTAB 0604M		PT1/4	11	33.5	33.5				14	4	50
BTAB 0606M		PT3/8	12	35.5	35				17	4	50
BTAB 0802M	8	PT1/8	8	32.5	36	14	17	23	14	6	50
BTAB 0804M		PT1/4	11	35.5	46				14	6	50
BTAB 0806M		PT3/8	12	37	48.5				17	6	50
BTAB 0807M		PT1/2	15	46	38				22	7	50
BTAB 1004M	10	PT1/4	11	39.5	42.5	17.5	20	28	17	7	25
BTAB 1006M		PT3/8	12	41	43.5				17	7	25
BTAB 1007M		PT1/2	15	45	45.5				22	7	25
BTAB 1204M	12	PT1/4	11	43	48	21.5	22	31	21	7.5	20
BTAB 1206M		PT3/8	12	44	48.5				21	9	20
BTAB 1207M		PT1/2	15	48	50.5				22	9	20

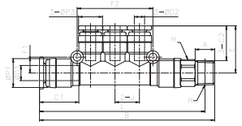
TT Tee union Triple



(Unit:mm)

Parts No.	Tube O.D Ø D1	Tube O.D Ø D2	B	ØP1	ØP2	C1	C2	J	E	F1	F2	Ø d	Orifice Dia. (Ømm)	Qty (EA)
BTT 0604M	6	4	61	12	10	16	14	10	19	15	15	3.2	5	50
BTT 0804M	8	4	64	14	10	17	14	10	19	17	17	3.2	7	50
BTT 0806M		6	72	14	12	17	16	12	19	19	19	4.2	7	50
BTT 1006M	10	6	78	17.5	12	20	16	12	20	19	19	4.2	9	25
BTT 1008M		8	82	17.5	14	20	17	14	20	23	23	4.2	9	25

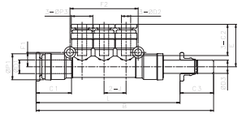
TTB Tee union Triple Branch



(Unit:mm)

Parts No.	Tube O.D Ø D1	Tube O.D Ø D2	PT Thread R	A	B	L	ØP1	ØP2	C1	C2	J	E	F1	F2	Ø d	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTTB 0604M5M	6	4	M5X0.8	4	69	65	12	10	16	14.3	10	19	15	15	3.2	10	2.5	50
BTTB 0604M6M			M6X1.0	4	69	65										10	2.5	50
BTTB 060402M			PT1/8	8	70	70										10	2.5	50
BTTB 080402M	8	4	PT1/8	8	72	69	14	10	17	14.3	10	18	17	17	3.2	14	4	50
BTTB 080404M			PT1/4	11	75	70										14	4	50
BTTB 080602M		6	PT1/8	8	80	76	14	12	17	16.4	12	19	19	19	4.2	14	6	50
BTTB 080604M			PT1/4	11	83	77										14	6	50
BTTB 080606M			PT3/8	12	84	78										17	6	50
BTTB 080607M			PT1/2	15	88	80										22	6	50
BTTB 100604M	10	6	PT1/4	11	89	83	17.5	12	20	16.4	12	20	19	19	4.2	17	7	25
BTTB 100606M			PT3/8	12	91	84										17	7	25
BTTB 100607M			PT1/2	15	95	87										22	7	25
BTTB 100804M		8	PT1/4	1	93	87	17.5	14	20	17.9	14	20	23	23	4.2	17	7	25
BTTB 100806M			PT3/8	12	95	88										17	7	25
BTTB 100807M			PT1/2	15	99	91										22	7	25

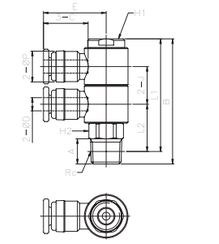
TTS Tee union Triple Stem



(Unit:mm)

Parts No.	Tube O.D Ø D1	Tube O.D Ø D2	Stem O.D Ø D3	B	L	ØP1	ØP2	C1	C2	C3	J	E	F1	F2	Orifice Dia. (Ømm)	Qty (EA)
BTTS 060402M	6	4	6	80	72	12	10	16	14	8	10	19	15	15	3.2	50
BTTS 080408M	8	4	8	84	76	14	10	17	14	8	10	19	17	17	3.2	50
BTTS 080608M		6		91	82	12	16	8	12	19	1	19	19	19	4.2	50
BTTS 100610M	10	6	10	100	90	17.5	12	20	16	10	12	20	19	19	4.2	25
BTTS 100810M		8		104	94	17.5	14	20	17	10	14	20	23	23	4.2	25

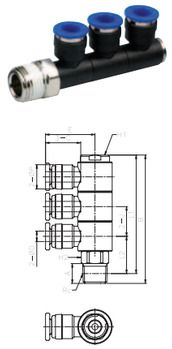
STC Single Two way Connector



(Unit:mm)

Parts No.	Tube O.D Ø D	PT Thread Rc	A	B	L1	L2	ØP	C	E	J	Ø H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BSTC 0402M	4	PT1/8	8	52	48	15	10	14	18	12	10	10	3	100
BSTC 0404M		PT1/4	11	55	49	16						14	3	100
BSTC 0406M		PT3/8	12	57	50.5	17.5						17	3	100
BSTC 0602M	6	PT1/8	8	58	54	16	12	16	21	14	12	10	3.5	50
BSTC 0604M		PT1/4	11	62	56	18						14	3.5	50
BSTC 0606M		PT3/8	12	63	56.5	18.5						17	3.5	50
BSTC 0802M	8	PT1/8	8	67	63	17.5	14	17	25	17	13.5	14	5	50
BSTC 0804M		PT1/4	11	70	64	18.5						14	5	50
BSTC 0806M		PT3/8	12	72	65.5	20.5						17	5	50
BSTC 0807M		PT1/2	15	76	67.5	22.5						22	5	50
BSTC 1004M	10	PT1/4	11	80.5	74.5	21	17.5	20	29	20	19.5	17	5	25
BSTC 1006M		PT3/8	12	81.5	75.5	21.5						17	5	25
BSTC 1007M		PT1/2	15	85.5	77.5	24						22	5	25
BSTC 1204M	12	PT1/4	11	95.5	89.5	25	21.5	22	34	24	24	22	10	20
BSTC 1206M		PT3/8	12	95.5	89	24.5						22	10	20
BSTC 1207M		PT1/2	15	98.5	90	26						22	10	20

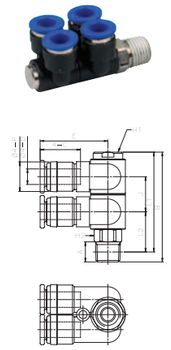
SHC Single tHree way Connector



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread Rc	A	B	L1	L2	⌀P	C	E	J	⌀H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BSHC 0402M	4	PT1/8	8	40	36	14	10	14	18	12	10	10	3	100
BSHC 0404M		PT1/4	11	43	37	16						14	3	100
BSHC 0406M		PT3/8	12	45	38.5	17.5						17	3	100
BSHC 0602M	6	PT1/8	8	44	40	16	12	16	21	14	12	10	3.5	50
BSHC 0604M		PT1/4	11	48	42	18						14	3.5	50
BSHC 0606M		PT3/8	12	49	42.5	18.5						17	3.5	50
BSHC 0802M	8	PT1/8	8	50	46	17.5	14	17	25	17	13.5	14	5	50
BSHC 0804M		PT1/4	11	53	47	18.5						14	5	50
BSHC 0806M		PT3/8	12	55	48.5	20						17	5	50
BSHC 0807M		PT1/2	8	58.5	50.5	22.5						22	5	50
BSHC 1004M	10	PT1/4	11	60.5	54.5	21	17.5	20	29	20	19.5	17	5	25
BSHC 1006M		PT3/8	12	61.5	55	21.5						17	5	25
BSHC 1007M		PT1/2	15	65.5	57.5	24						22	5	25
BSHC 1204M	12	PT1/4	11	71.5	65.5	25	21.5	21	34	24	24	22	10	20
BSHC 1206M		PT3/8	12	71.5	65	25						22	10	20
BSHC 1207M		PT1/2	15	74.5	66	26						22	10	20

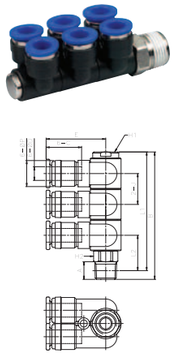
DTC Double Two way Connector



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread Rc	A	B	L1	L2	⌀P	C	E	J	⌀H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BDTC 0402M	4	PT1/8	8	40	36	15	10	14	21	12	10	10	3	100
BDTC 0404M		PT1/4	11	43	37	16						14	3	100
BDTC 0406M		PT3/8	12	45	38.5	17.5						17	3	100
BDTC 0602M	6	PT1/8	8	44	40	16	12	16	26	14	12	10	3.5	50
BDTC 0604M		PT1/4	11	48	42	18						14	3.5	50
BDTC 0606M		PT3/8	12	49	42.5	18.5						17	3.5	50
BDTC 0802M	8	PT1/8	8	50	46	17.5	14	17	31	17	14	14	5	50
BDTC 0804M		PT1/4	11	53	47	18.5						14	5	50
BDTC 0806M		PT3/8	12	55	48.5	20						17	5	50
BDTC 0807M		PT1/2	15	58.5	50.5	22.5						17	5	50
BDTC 1004M	10	PT1/4	11	60.5	54.5	21	17.5	20	34	20	19.5	17	5	25
BDTC 1006M		PT3/8	12	61.5	55	21.5						17	5	25
BDTC 1007M		PT1/2	15	65.5	57.5	24						22	5	25
BDTC 1204M	12	PT1/4	11	71.5	65.5	25	21.5	22	39	24	24	22	10	20
BDTC 1206M		PT3/8	12	71.5	65	24.5						22	10	20
BDTC 1207M		PT1/2	15	74.5	66	26						22	10	20

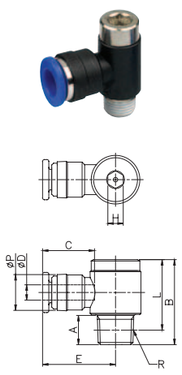
DHC Double tHree way Connector



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread Rc	A	B	L1	L2	⌀P	C	E	J	⌀H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BDHC 0402M	4	PT1/8	8	52	48	15	10	14	21	12	10	10	3	100
BDHC 0404M		PT1/4	11	55	49	16						14	3	100
BDHC 0406M		PT3/8	12	57	50.5	17.5						17	3	100
BDHC 0602M	6	PT1/8	8	58	54	16	12	16	26	14	12	10	3.5	50
BDHC 0604M		PT1/4	11	62	56	18						14	3.5	50
BDHC 0606M		PT3/8	12	63	56.5	18.5						17	3.5	50
BDHC 0802M	8	PT1/8	8	67	63	17.5	14	17	31	17	14	14	5	50
BDHC 0804M		PT1/4	11	70	64	18.5						14	5	50
BDHC 0806M		PT3/8	12	72	65.5	20						17	5	50
BDHC 0807M		PT1/2	15	76	67.5	22.5						22	5	50
BDHC 1004M	10	PT1/4	11	80.5	74.5	21	17.5	20	34	20	19.5	17	5	25
BDHC 1006M		PT3/8	12	81.5	75	21.5						17	5	25
BDHC 1007M		PT1/2	15	85.5	77.5	24						22	5	25
BDHC 1204M	12	PT1/4	11	95.5	89.5	25	21.5	22	39	24	24	22	10	20
BDHC 1206M		PT3/8	12	95.5	89	24.5						22	10	20
BDHC 1207M		PT1/2	15	98.5	90	26						22	10	20

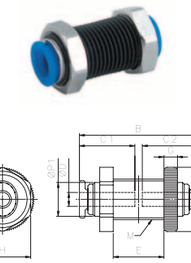
UEH Universal Elbow Hexa



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	⌀P	C	E	A	L	B	H	Orifice Dia. (Ømm)	Qty (EA)
BUEH 04M5M	4	M5X0.8	10	14	18	4	17	21.5	5	2.5	100
BUEH 04M6M		M6X1.0				4	17	21.5	5	3	100
BUEH 0402M		PT1/8				8	21.5	25.5	6	5	100
BUEH 06M5M	6	M5X0.8	12	16	21	4	18.8	23.5	5	2.5	50
BUEH 06M6M		M6X1.0				4	18.8	23.5	5	3	50
BUEH 0602M		PT1/8				8	23.5	27.5	6	5	50
BUEH 0604M		PT1/4				11	25.5	31.5	8	7.5	50
BUEH 0606M		PT3/8				12	26.5	32.5	10	10	50
BUEH 0802M	8	PT1/8	14	17	25	8	26.5	30.5	6	5	50
BUEH 0804M		PT1/4				11	28.5	34.5	8	7.5	50
BUEH 0806M		PT3/8				12	29	35	10	10	50
BUEH 0807M		PT1/2				15	30.5	39	12	12	50
BUEH 1004M	10	PT1/4	17.5	20	29	11	31.5	37.5	8	7.5	25
BUEH 1006M		PT3/8				12	32	38	10	10	25
BUEH 1007M		PT1/2				15	33.5	42	12	12	25
BUEH 1204M	12	PT1/4	21.5	22	34	11	35.5	41.5	8	7.5	20
BUEH 1206M		PT3/8				12	36	42	10	10	20
BUEH 1207M		PT1/2				15	37.5	46	12	12	20

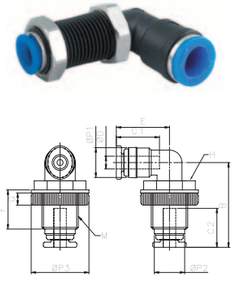
BUS Bulkhead Union Straight



(Unit:mm)

Parts No.	Tube O.D ⌀D	Metric Thread M	⌀P1	⌀P2	C1	C2	E (Min)	E (Min)	G	B	H	Orifice Dia. (Ømm)	Qty (EA)
BBUS 04M12M	4	M12 X 1.0	10	16	14	14	1	8	5	32	14	3	100
BBUS 06M14M	6	M14 X 1.0	12	18	16	16	1	9	5	36	17	5	50
BBUS 08M16M	8	M16 X 1.0	14	22	17	17	1	9	6	38	19	7	50
BBUS 10M20M	10	M20 X 1.0	17.5	28	20	20	1	10	6	43.5	24	8	25
BBUS 12M22M	12	M22 X 1.0	21.5	31	22	22	1	16	6	47.5	27	10	20

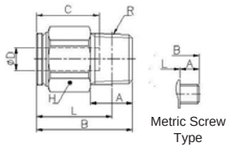
BUE Bulkhead Union Elbow



(Unit:mm)

Parts No.	Tube O.D ⌀D	Metric Thread M	⌀P1	⌀P2	⌀P3	C1	C2	E	F	G	B	H	Orifice Dia. (Ømm)	Qty (EA)
BBUE 04M12M	4	M12 X 1.0	10	10	16	14	14	18	16	5	34	14	3	100
BBUE 06M14M	6	M14 X 1.0	12	12	18	16	16	21	15	5	3	17	5	50
BBUE 08M16M	8	M16 X 1.0	14	14	22	17	17	25	16	6	42	19	7	50
BBUE 10M20M	10	M20 X 1.0	17.5	17.5	28	20	20	29	18	6	48	24	8	25
BBUE 12M22M	12	M22 X 1.0	21.5	21.5	31	22	22	34	20	6	54	27	10	20

MCH Male Connector for Hexagon



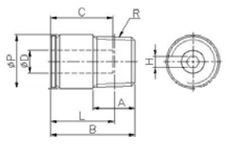
Metric Screw Type

(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	C	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMCH 04M5M	4	M5X0.8	5	21	16	14	10	2.5	100
BMCH 04M6M		M6X1.0	5	21	16		10	2.5	100
BMCH 0402M		PT1/8	8	17	17		10	2.5	100
BMCH 0404M		PT1/4	11	24	17		14	2.5	100
BMCH 0406M		PT3/8	12	25	18		17	2.5	100
BMCH 06M5M	6	M5X0.8	5	23	18	16	12	2.5	50
BMCH 06M6M		M6X1.0	5	23	18		12	2.5	50
BMCH 0602M		PT1/8	8	24	20		12	4	50
BMCH 0604M		PT1/4	11	24	18		14	4	50
BMCH 0606M		PT3/8	12	25	18		17	4	50
BMCH 0802M	8	PT1/8	8	27	25	17	14	6	50
BMCH 0804M		PT1/4	11	28	22		14	6	50
BMCH 0806M		PT3/8	12	27	21		17	6	50
BMCH 0807M		PT1/2	15	30	22		22	6	50
BMCH 1002M	10	PT1/8	8	31	27	20	17	5	25
BMCH 1004M		PT1/4	11	34	28		17	6	25
BMCH 1006M		PT3/8	12	29	22		17	8	25
BMCH 1007M		PT1/2	15	29	21		22	8	25
BMCH 1202M	12	PT1/8	8	33	27	22	21	5	20
BMCH 1204M		PT1/4	11	36	30		21	6	20
BMCH 1206M		PT3/8	12	33	27		21	8	20
BMCH 1207M		PT1/2	15	34	26		22	8	20
BMCH 1606M	16	PT3/8	12	39	33	24	24	10	10
BMCH 1607M		PT1/2	15	40	32		24	10	10

● Due to Hexagon type hole, Easy screwing available by the Wrench eventhough in no much space for the Spanner

MCR Male Connector for ciRcle

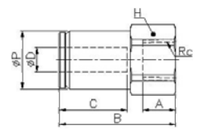


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMCR 04M5M	4	M5X0.8	5	21	16	10	13.5	2.5	2.5	100
BMCR 04M6M		M6X1.0	5	21	16	10				100
BMCR 0402M		PT1/8	8	21	17	10				100
BMCR 0404M		PT1/4	11	24	17	10				100
BMCR 0406M		PT3/8	12	25	18	10				100
BMCR 06M5M	6	M5X0.8	5	23	18	12	15.5	2.5	2.5	50
BMCR 06M6M		M6X1.0	5	23	18	12				50
BMCR 0602M		PT1/8	8	24	20	12		4	4	50
BMCR 0604M		PT1/4	11	24	18	14				50
BMCR 0606M		PT3/8	12	25	18	17				50
BMCR 0802M	8	PT1/8	8	27	25	14	16.5	6	6	50
BMCR 0804M		PT1/4	11	28	22	14				50
BMCR 0806M		PT3/8	12	27	21	17				50
BMCR 0807M		PT1/2	15	30	22	22				50
BMCR 1002M	10	PT1/8	8	31	27	17	19.5	6	6	25
BMCR 1004M		PT1/4	11	34	28	17				25
BMCR 1006M		PT3/8	12	29	22	17				25
BMCR 1007M		PT1/2	15	29	21	22				25
BMCR 1202M	12	PT1/8	8	33	27	21	21	6	6	20
BMCR 1204M		PT1/4	11	36	30	21				20
BMCR 1206M		PT3/8	12	33	27	21		8	8	20
BMCR 1207M		PT1/2	15	34	26	21				20
BMCR 1606M	16	PT3/8	12	39	33	24	24	12	10	10
BMCR 1607M		PT1/2	15	40	32	24				10

● Due to Hexagon type hole, Easy screwing available by the Wrench eventhough in no much space for the Spanner

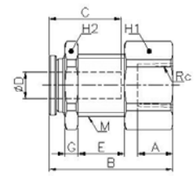
FAS Female Adapter Straight



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread Rc	A	B	C	ø P	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFAS 0402M	4	PT1/8	8	24	13.5	10	12	2.5	100
BFAS 0404M		PT1/4	11	27			17		100
BFAS 0406M		PT3/8	12	30			17		100
BFAS 0602M	6	PT1/8	8	26	15.5	12	14	4	50
BFAS 0604M		PT1/4	11	29			17		50
BFAS 0606M		PT3/8	12	31			19		50
BFAS 0802M	8	PT1/8	8	28	16.5	14	14	6	50
BFAS 0804M		PT1/4	11	30			17		50
BFAS 0806M		PT3/8	12	32			19		50
BFAS 0807M		PT1/2	15	35			24		50
BFAS 1002M	10	PT1/8	8	30	20	17	17	6	25
BFAS 1004M		PT1/4	11	33	19.5	17	17		25
BFAS 1006M		PT3/8	12	34			19		25
BFAS 1007M		PT1/2	15	37			24		25
BFAS 1204M	12	PT1/4	11	35	21	21	22	6	20
BFAS 1206M		PT3/8	12	36			22		20
BFAS 1207M		PT1/2	15	39			24		20

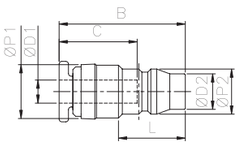
FBS Female Bulkhead Straight



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	Metric Thread M	G	A	B	C	E	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BFBS 0402M12M	4	PT1/8	M12 X 1.0	4	8	27	14	3.5	14	17	2.5	100
BFBS 0404M12M		PT1/4			11	30		4.5	17			100
BFBS 0406M12M		PT3/8			12	31		4.5	17			100
BFBS 0602M14M	6	PT1/8	M14 X 1.0	4	8	28	16	6	17	17	4	50
BFBS 0604M14M		PT1/4			11	31		5.5	17			50
BFBS 0606M14M		PT3/8			12	41		6.5	19			50
BFBS 0802M16M	8	PT1/8	M16 X 1.0	5	8	29	17	4.5	19	19	6	50
BFBS 0804M16M		PT1/4			11	32		4.5	19			50
BFBS 0806M16M		PT3/8			12	33		4.5	19			50
BFBS 0807M16M		PT1/2			15	36		5	24			50
BFBS 1002M20M	10	PT1/8	M20 X 1.0	6	8	31	20	5.5	22	24	6	25
BFBS 1004M20M		PT1/4			11	34		6.5	24			25
BFBS 1006M20M		PT3/8			12	35		6.5	24			25
BFBS 1007M20M		PT1/2			15	38		6.5	24			25
BFBS 1202M22M	12	PT1/8	M22 X 1.0	6	8	32	22	7	24	24	6	20
BFBS 1204M22M		PT1/4			11	35		7	24			20
BFBS 1206M22M		PT3/8			12	36		7	24			20
BFBS 1207M22M		PT1/2			15	39		8	24			20

SCP Straight CouPler

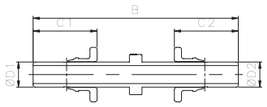


(Unit:mm)

Parts No.	Tube O.D ø D1	ø D2	ø P1	ø P2	C	B	L	Orifice Dia. (Ømm)	Qty (EA)
BSCP 04M	4	10.9	10	13.1	14	32.5	20.5	3	100
BSCP 06M	6	10.9	12	13.1	16	33.5	20.5	5	50
BSCP 08M	8	10.9	14	13.1	17	37	20.5	7	50
BSCP 10M	10	10.9	17.5	13.1	20	44	20.5	8	25
BSCP 12M	12	10.9	21.5	13.1	22	47.5	20.5	10	20
BSCP 16M	16	10.9	25.5	13.1	24	50.5	20.5	13	10

PBT FITTINGS

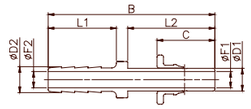
SS Stem to Stem



(Unit : mm)

Parts No.	Stem O.D ∅D1	Stem O.D ∅D2	C1	C2	B	Orifice Dia. (∅mm)	Qty (EA)
BSS 0404M	4	4	7	7	35	2	100
BSS 0604M	6	4	8	7	36	3	50
BSS 0606M		6	8	8	38	4	50
BSS 0804M	8	4	8	7	38	4	50
BSS 0806M		6	8	8	39	4	50
BSS 0808M		8	8	8	39.5	6	50
BSS 1006M	10	6	10	8	42	7	25
BSS 1008M		8	10	8	43	7	25
BSS 1010M		10	10	10	46	8	25
BSS 1208M	12	8	10.5	8	46	8	20
BSS 1210M		10	10.5	10	48	12	20
BSS 1212M		12	10.5	10.5	50	12	20
BSS 1612M	16	12	13	10.5	54	12	10
BSS 1616M		16	13	13	54	12	10

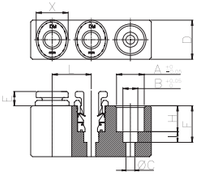
BS Barb to Stem



(Unit : mm)

Parts No.	Stem O.D ∅D1	Tube I.D ∅D2	C	L1	L2	B	F1	F2	Orifice Dia. (∅mm)	Qty (EA)
BBS 0404M	4	4.8	7	16	17	35	3	3	2	100
BBS 0405M		5.9	7	17	17	36	3	3	3	100
BBS 0605M	6	5.9	8	17	18	38	4	3	4	50
BBS 0606M		6.8	8	17	19	38.5	4	4	4	50
BBS 0806M	8	6.8	8	17.5	19.5	39.5	6	4	4	50
BBS 0808M		8.6	8	17.5	20	40	6	6	6	50
BBS 1008M	10	8.6	10	18	22.5	43.5	6.8	6	7	25
BBS 1208M	12	8.6	10.5	18	25	45	9.5	6	8	25
BBS 1210M		10.6	10.5	18	25	46.5	9.5	6.8	12	25
BBS 1213M		13.5	10.5	20	25	48	9.5	10	12	25
BBS 1616M	16	16.7	12	22	27	52	11	11	12.5	20

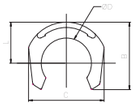
CT CarTridge



(Unit : mm)

Parts No.	Tube O.D ∅D1	L	A	B	∅C	E	F	H	I	X	Qty (EA)
BCT 04M	4	11	8	4.2	2.5	4	10.8	7.3	3.5	11	100
BCT 06M	6	13	10	6.2	4	4.1	11.9	7.9	4	13	100
BCT 08M	8	15	12	8.2	6	5.4	12.5	8	4.5	16	100
BCT 10M	10	18	15	10.2	8	5.4	14.6	9.6	5	19	100
BCT 12M	12	22	18	12.2	10	5.4	16.1	11.1	5	23	100

LC Locking Clip



(Unit : mm)

Parts No.	Tube O.D ∅D1	A	B	C	T	Qty (EA)
BLC 04M	5.8	5.5	8.5	10.5	0.8	100
BLC 06M	7.8	6.7	10.7	12	0.9	100
BLC 08M	9.6	7.7	12.6	14.5	1.3	100
BLC 10M	12.2	9.5	15.2	14.5	1.3	100
BLC 12M	14.5	11	17.5	18.5	1.4	100

MINI FITTINGS

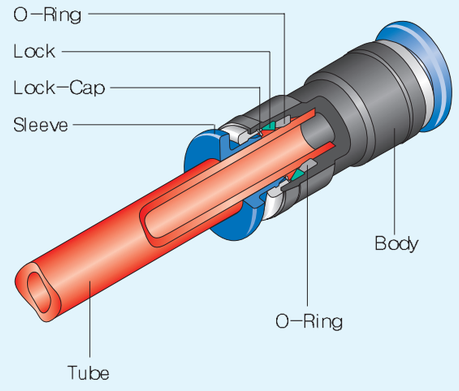
Usages

- These products are extra small, one-touch type fittings used for small size air pressure piping and other similar devices.
- Each product comes with diverse functions and dimensions so that they are widely applicable to all piping situations.

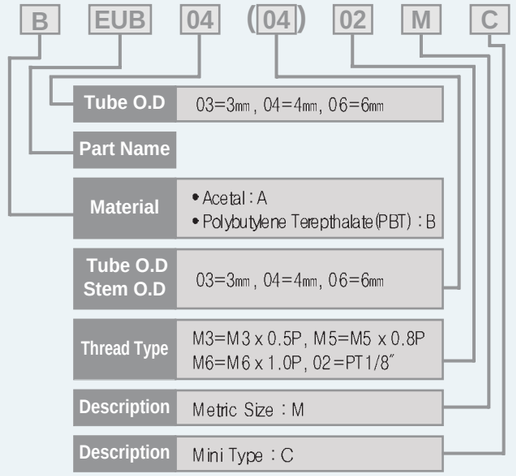
Features

- These mini fittings of one-touch type for air pressure piping have only 40% volume compared to standard fittings, thus successfully miniaturizing the fittings.
- Since these fittings are small and light, they have excellent applicability in various pneumatic piping situations and instructional devices.
- Nickel surface plating presents excellent anti-corrosion performance.

Diagram



ORDER INFORMATION



Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

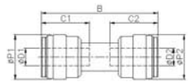
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- Ensure that the tube and O-ring are fully assembled.
- Upon tube assembly, pull tube out to ensure that the assembly has been done properly.

⚠ Warning

- In case the fluid used is water, please verify product specification for water before using products.

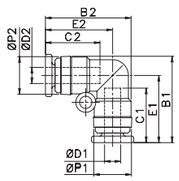
UC Union Connector



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	øP1	øP2	C1	C2	B	Qty (EA)
BUC 0303C	3	3	6.5	6.5	10	10	20.5	100
BUC 0404C	4	4	8.5	8.5	11.5	11.5	23.5	100
BUC 0606C	6	6	11	11	13.5	13.5	26.5	100

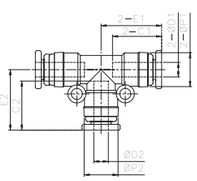
EU Elbow Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	øP1	øP2	C1	C2	E1	E2	B1	B2	Qty (EA)
BEU 0303C	3	3	6.5	6.5	10	10	12	12	15.5	15.5	100
BEU 0404C	4	4	8.5	8.5	11.5	11.5	14	14	18.5	18.5	100
BEU 0606C	6	6	10.5	10.5	13	13	17	17	22.5	22.5	100

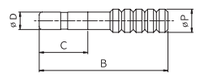
TU Tee Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	øP1	øP2	C1	C2	E1	E2	Qty (EA)
BTU 0303C	3	3	6.5	6.5	10	10	12	12	100
BTU 0404C	4	4	8.5	8.5	11.5	11.5	14	14	100
BTU 0606C	6	6	10.5	10.5	13	13	17	17	100

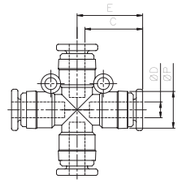
PL PLug



(Unit:mm)

Parts No.	Stem O.D ø D	C	B	øP	Qty (EA)
BPL 03C	3	10	22	4	100
BPL 04C	4	11.5	27	5	100
BPL 06C	6	13	32	7	100

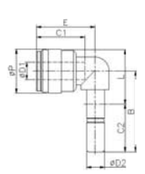
CRS CRosS



(Unit:mm)

Parts No.	Tube O.D ø D	øP	C	E	Qty (EA)
BCRS 0303C	3	6.5	10	12	100
BCRS 0404C	4	8.5	11.5	14	100
BCRS 0606C	6	10.5	13	17	100

TEU Tube Elbow Union



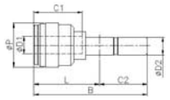
(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	L	øP	C1	C2	E	Qty (EA)
BTEU 0303C	3	3	19.8	13.2	9	10	10	12	100
BTEU 0404C	4	4	22	14.8	9	11.5	11.5	14	100
BTEU 0606C	6	6	25	17.3	9	12	13	17	100

RD ReDucer

(Unit:mm)

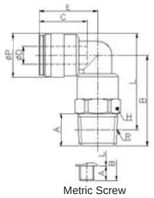
Parts No.	Tube O.D ∅D1	Stem O.D ∅D2	∅P1	∅P2	C1	C2	B	Qty (EA)
BRD 0304C	3	4	29	17.5	6.5	10	11.5	100
BRD 0406C	4	6	32.5	19.5	8.5	11.5	13	100



EUB Elbow Union Branch

(Unit:mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	∅P	C	E	Hex H	Qty (EA)
BEUB 03M3C	3	M3×0.5	3	12.5	12.5	6.5	10	12	6	100
BEUB 03M5C		M5×0.8	3.5	13	12.5				8	100
BEUB 03M6C		M6×1.0	4.5	14	12.5				8	100
BEUB 04M3C	4	M3×0.5	3	13.2	14.5	8.5	11.5	14	8	100
BEUB 04M5C		M5×0.8	3.5	13.7	14.5				8	100
BEUB 04M6C		M6×1.0	4.5	14.7	14.5				8	100
BEUB 0402C		PT1/8	8	16.2	14.5				10	100
BEUB 06M5C	6	M5×0.8	3.5	14.5	16.5	10.5	13	17	8	100
BEUB 06M6C		M6×1.0	4.5	15.5	16.5				8	100
BEUB 0602C		PT1/8	8	17	18.5				10	100

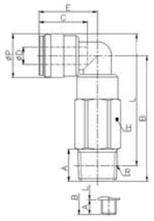


Metric Screw Type

ELB Elbow union Long Branch

(Unit:mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	∅P	C	E	Hex H	Qty (EA)
BELB 03M3C	3	M3×0.5	3	20	20	6.5	10	12	6	100
BELB 03M5C		M5×0.8	3.5	20.5	20				8	100
BELB 03M6C		M6×1.0	4.5	21.5	25				8	100
BELB 04M3C	4	M3×0.5	3	22.5	25	8.5	11.5	14	8	100
BELB 04M5C		M5×0.8	3.5	23.5	25				8	100
BELB 04M6C		M6×1.0	4.5	24.5	25				8	100
BELB 0402C		PT1/8	8	25.5	26				10	100
BELB 06M5C	6	M5×0.8	3.5	26.5	29	10.5	13	17	8	100
BELB 06M6C		M6×1.0	4.5	27.5	29				8	100
BELB 0602C		PT1/8	8	29	30.5				10	100

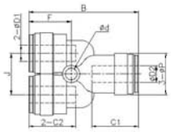


Metric Screw Type

TD Two way Divider

(Unit:mm)

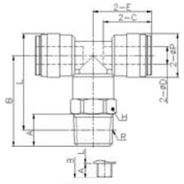
Parts No.	Tube O.D ∅D1	Tube O.D ∅D2	B	∅P	C1	C2	∅d	F	J	Qty (EA)
BTD 0303C	3	3	26	6.5	6.5	6.5	3.2	7.5	6.5	100
BTD 0403C	4	3	24.5	8.5	7	6.5	3.2	7.5	6.5	100
BTD 0404C		4	25.5	8.5	7	7	3.2	8	8.5	100
BTD 0604C	6	4	27.5	10.5	8	7	3.2	8	8.5	100
BTD 0606C		6	29	10.5	8	8	3.2	8.5	11	100



MTB Male Tee swivel Branch

(Unit:mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	∅P	C	E	Hex H	Qty (EA)
BMTB 03M3C	3	M3×0.5	3	12.2	9.2	6.5	10	12	6	100
BMTB 03M5C		M5×0.8	3.5	12.7	9.2				8	100
BMTB 03M6C		M6×1.0	4.5	13.7	15				8	100
BMTB 04M3C	4	M3×0.5	3	18	15	8.5	11.5	14	8	100
BMTB 04M5C		M5×0.8	3.5	18.5	15				8	100
BMTB 04M6C		M6×1.0	4.5	19.5	15				8	100
BMTB 0402C		PT1/8	8	21	17				10	100
BMTB 06M5C	6	M5×0.8	3.5	15	11.5	10.5	13	17	8	100
BMTB 06M6C		M6×1.0	4.5	16	11.5				8	100
BMTB 0602C		PT1/8	8	17.5	13.5				10	100

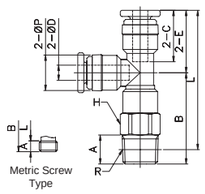


Metric Screw Type

MRB Male Run swivel Branch

(Unit:mm)

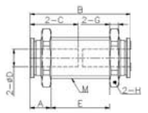
Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	∅P	C	E	Hex H	Qty (EA)
BMRB 03M3C	3	M3×0.5	3	12.2	21.2	6.5	10	12	6	100
BMRB 03M5C		M5×0.8	3.5	12.7	21.2				8	100
BMRB 03M6C		M6×1.0	4.5	13.7	21.2				8	100
BMRB 04M3C	4	M3×0.5	3	17.7	28.7	8.5	11.5	14	8	100
BMRB 04M5C		M5×0.8	3.5	18.2	28.7				8	100
BMRB 04M6C		M6×1.0	4.5	19.2	28.7				8	100
BMRB 0402C		PT1/8	8	20.7	30.7				10	100
BMRB 06M5C	6	M5×0.8	3.5	15.2	28.7	10.5	13	17	8	100
BMRB 06M6C		M6×1.0	4.5	16.2	28.7				8	100
BMRB 0602C		PT1/8	8	17.7	30.7				10	100



Metric Screw Type

MINI FITTINGS

BKU BulKhead Union



(Unit :mm)

Parts No.	Tube O.D ∅D	Metric Thread M	G	A	B	C	E	Hex H	Qty (EA)
BBKU 03M08C	3	M08 ×1.0	3	7	29.5	10	4.5	10	100
BBKU 04M10C	4	M10 ×1.0	3	7.5	34	11.5	6.5	12	100
BBKU 06M12C	6	M12 ×1.0	3	7.5	36	13	9.5	14	100

MCH Male Connector for Hexagon

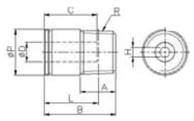
Metric Screw Type

(Unit :mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	C	Hex H	Qty (EA)
BMCH 03M3C	3	M3 ×0.8	3	13.6	10.5	10	6	100
BMCH 03M5C		M5 ×0.8	3.5	15.5	10.5	10	8	100
BMCH 03M6C		M6 ×1.0	4.5	16.5	10.5	10	8	100
BMCH 04M3C	4	M3 ×0.8	3	15	12	11.5	8	100
BMCH 04M5C		M5 ×0.8	3.5	15.5	12	11.5	8	100
BMCH 04M6C		M6 ×1.0	4.5	16.5	12	11.5	8	100
BMCH 0402C		PT1/8	8	15	11	11.5	10	100
BMCH 06M5C	6	M5 ×0.8	3.5	17.5	14	13	10	100
BMCH 06M6C		M6 ×1.0	4.5	18.5	14	13	10	100
BMCH 0602C		PT1/8	8	18	14	13	10	100

● Due to Hexagon type hole, Easy screwing available by the Wrench eventhough in no much space for the Spanner

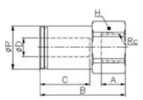
MCR Male Connector for ciRcle



(Unit :mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	∅P	C	Hex H	Qty (EA)
BMCR 03M3C	3	M3 ×0.5	3	13.6	10.5	6	10	1.5	100
BMCR 03M5C		M5 ×0.8	3.5	15.5	10.5	8	10	2	100
BMCR 03M6C		M6 ×1.0	4.5	16.5	10.5	8	10	2	100
BMCR 04M3C	4	M3 ×0.5	3	15	12	8	11.5	1.5	100
BMCR 04M5C		M5 ×0.8	3.5	15.5	12	8	11.5	2	100
BMCR 04M6C		M6 ×1.0	4.5	16.5	12	8	11.5	2	100
BMCR 0402C		PT1/8	8	15	11	10	11.5	2	100
BMCR 06M5C	6	M5 ×0.8	3.5	17.5	14	10	13	2	100
BMCR 06M6C		M6 ×1.0	4.5	18.5	14	10	13	2	100
BMCR 0602C		PT1/8	8	18	14	10	13	4	100

FAS Female Adapter Straight



(Unit :mm)

Parts No.	Stem O.D ∅D	PT Thread Rc	A	B	C	∅P	Hex H	Qty (EA)
BFAS 03M3C	3	M3 ×0.5	3.5	15.5	8	10	8	100
BFAS 03M5C		M5 ×0.8	5	16.5				100
BFAS 04M3C	4	M3 ×0.5	3.5	15.5	8	11.5	8	100
BFAS 04M5C		M5 ×0.8	5	17.5				100

TWO-TOUCH FITTINGS

ORDER INFORMATION

A — TMC — 04 — 02

Tube O.D	04 = 4㎜, 06 = 6㎜, 08 = 8㎜, 10 = 10㎜, 12 = 12㎜
Part Name	
Material	• Acetal : A • Polyplopylene : PP • Polyamid : PA • Polyvinylidene Fluorude : PVDF • Teflon : PFA
Thread Type	02 = PT 1/8″, 04 = PT1/4″ 06 = PT 3/8″, 07 = PT1/2″

Usages

- These fittings are of nut tightening type fittings used for pneumatic tubing and other similar devices.
- Wide variety of product sizes provides wide range of applications.

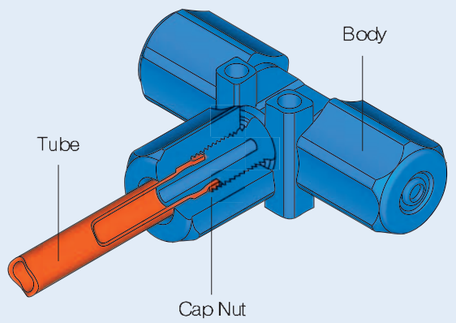
Features

- Since Tube connection is by forced tightening, these products provide excellent performance in situations of vibration or shaking.
- Products are made of plastic and thus have semi-permanent useful life.
- Excellent resistance against corrosion, chemicals and compounds.
- Good performance in vibration situations.

Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg (10Torr)
Hose Used	Polyurethane, Nylon

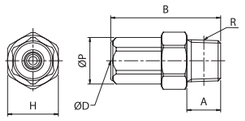
Diagram



⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- Assemble Tube into Fitting fully.
- Do not overly force Cap Nut during assembly.
- After Tube assembly, pull Tube out somewhat to ensure complete assembly.

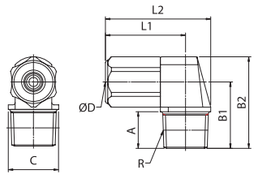
TMC Two-touch Male Connector



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	⌀P	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
TMC 0402M	4	PT1/8	8	26	11	12	2	100
TMC 0404M		PT1/4	11	29		14	2	100
TMC 0602M	6	PT1/8	8	29	13.5	12	3	50
TMC 0604M		PT1/4	11	32		14	3	50
TMC 0802M	8	PT1/8	8	30	15.5	14	4.5	50
TMC 0804M		PT1/4	11	33		14	4.5	50
TMC 0806M		PT1/8	12	35		17	4.5	50
TMC 1004M	10	PT1/4	11	36	19	17	5	25
TMC 1006M		PT3/8	12	37		17	5	25
TMC 1206M	12	PT3/8	12	41	22	19	6.5	20
TMC 1207M		PT1/2	15	44		22	6.5	20

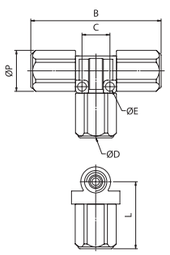
TME Two-touch Male Elbow



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B1	B2	C	L1	L2	Orifice Dia. (⌀mm)	Qty (EA)
TME 0402M	4	PT1/8	8	14.5	20	11	17.5	23	2	100
TME 0404M		PT1/4	11	17.5	23	14	19	26	2	100
TME 0602M	6	PT1/8	8	15.5	22	11	20.5	26	3	50
TME 0604M		PT1/4	11	18.5	25	14	22	29	3	50
TME 0802M	8	PT1/8	8	16.5	24.5	14	22.5	29.5	4.5	50
TME 0804M		PT1/4	11	19.5	27.5	14	23	30	4.5	50
TME 0806M		PT3/8	12	20.5	28.5	17	24.5	33	4.5	50
TME 1004M	10	PT1/4	11	21.5	31	17	26	34.5	5	25
TME 1006M		PT3/8	12	22.5	32	17	26.5	35	5	25
TME 1206M	12	PT3/8	12	23.5	34	20	32	42	6.5	20
TME 1207M		PT1/2	15	26.5	37	21.5	33	44	6.5	20

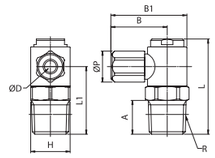
TTU Two-touch Tee Union



(Unit:mm)

Parts No.	Tube O.D ⌀D	⌀P	B	C	E	L	Orifice Dia. (⌀mm)	Qty (EA)
TTU 04M	4	11	35	7.5	2.5	23.5	2	100
TTU 06M	6	13.5	46	11	3	19.5	3	50
TTU 08M	8	15.5	50	11	4.5	32.5	4.5	50
TTU 10M	10	19	55	11	4.5	38.5	5	25
TTU 12M	12	21	68	16	4.5	44.5	6.5	20

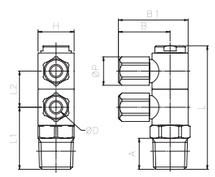
TSC-D1 Two-touch Single Connector



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	B1	H	L1	L	⌀P	Orifice Dia. (⌀mm)	Qty (EA)
TSC 0402M-D1	4	PT1/8	8	20	27	10	20	30	11	3.5	100
TSC 0404M-D1		PT1/4	12			14	24	34			100
TSC 0602M-D1	6	PT1/8	8	23	30	10	20	30	13.5	3.5	50
TSC 0604M-D1		PT1/4	12			14	24	34			50
TSC 0802M-D1	8	PT1/8	8	26	34.5	14	21	32	15.5	5	50
TSC 0804M-D1		PT1/4	11			14	24	35			50
TSC 0806M-D1		PT3/8	12			17	26	37			50
TSC 1004M-D1	10	PT1/4	11	30.5	41.5	17	27	40.5	19	5	25
TSC 1006M-D1		PT3/8	12			17	29	41.5			25
TSC 1007M-D1		PT1/2	15			22	32	45.5			25
TSC 1204M-D1	12	PT1/4	11	35	46	17	28	42.5	21	5	20
TSC 1206M-D1		PT3/8	12			17	29	43.5			20
TSC 1207M-D1		PT1/2	15			22	33	47.5			20

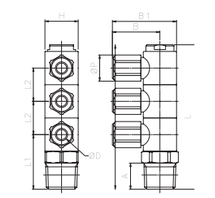
TSC-D2 Two-touch Single Connector



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thptead R	A	B	B1	H	L	L1	L2	⌀P	Orifice Dia. (⌀mm)	Qty (EA)
TSC 0402M-D2	4	PT1/8	8	20	27	10	44	20	14	11	3.5	100
TSC 0404M-D2		PT1/4	12			14	48	24				100
TSC 0602M-D2	6	PT1/8	8	23	30	10	44	20	14	13.5	3.5	50
TSC 0604M-D2		PT1/4	12			14	48	24				50
TSC 0802M-D2	8	PT1/8	8	26	34.5	14	48	21	16	15.5	5	50
TSC 0804M-D2		PT1/4	11			14	51	24				50
TSC 0806M-D2		PT3/8	12			17	53	26				50
TSC 1004M-D2	10	PT1/4	11	30.5	41.5	17	60.5	27	20	19	5	25
TSC 1006M-D2		PT3/8	12			17	61.5	29				25
TSC 1007M-D2		PT1/2	15			22	65.5	32				25
TSC 1204M-D2	12	PT1/4	11	35	46	17	64.5	28	22	21	5	20
TSC 1206M-D2		PT3/8	12			17	65.5	29				20
TSC 1207M-D2		PT1/2	15			22	69.5	33				20

TSC-D3 Two-touch Single Connector

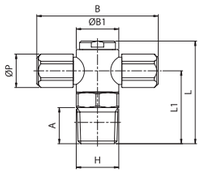


(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	B1	H	L	L1	L2	⌀P	Orifice Dia. (⌀mm)	Qty (EA)
TSC 0402M-D3	4	PT1/8	8	20	27	10	58	20	14	11	3.5	100
TSC 0404M-D3		PT1/4	12			14	62	24				100
TSC 0602M-D3	6	PT1/8	8	23	30	10	58	20	14	13.5	3.5	50
TSC 0604M-D3		PT1/4	12			14	62	24				50
TSC 0802M-D3	8	PT1/8	8	26	34.5	14	64	21	16	15.5	5	50
TSC 0804M-D3		PT1/4	11			14	67	24				50
TSC 0806M-D3		PT3/8	12			17	69	26				50
TSC 1004M-D3	10	PT1/4	11	30.5	41.5	17	80.5	27	20	19	5	25
TSC 1006M-D3		PT3/8	12			17	81.5	29				25
TSC 1007M-D3		PT1/2	15			22	85.5	32				25
TSC 1204M-D3	12	PT1/4	11	35	46	17	86.5	28	22	21	5	20
TSC 1206M-D3		PT3/8	12			17	87.5	29				20
TSC 1207M-D3		PT1/2	15			22	91.5	33				20

TWO-TOUCH FITTINGS

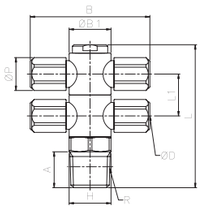
TDC-D1 Two-touch Double Connector



(Unit :mm)

Parts No.	Tube O. D ø D	PT Thread R	A	B	øB1	H	L1	L	øP	Orifice Dia. (Ømm)	Qty (EA)
TDC 0402M-D1	4	PT1/8	8	40	14	10	20	30	11	3.5	100
TDC 0404M-D1		PT1/4	12			14	24	34			100
TDC 0602M-D1	6	PT1/8	8	46	14	10	20	30	13.5	3.5	50
TDC 0604M-D1		PT1/4	12			14	24	34			50
TDC 0802M-D1	8	PT1/8	8	52	17	17	21	32	15.5	5	50
TDC 0804M-D1		PT1/4	11			17	24	35			50
TDC 0806M-D1		PT3/8	12			22	26	37			50
TDC 1004M-D1	10	PT1/4	11	61	22	22	27	40.5	19	5	25
TDC 1006M-D1		PT3/8	12			22	28	41.5			25
TDC 1007M-D1		PT1/2	15			22	32	45.5			25
TDC 1204M-D1	12	PT1/4	11	70	22	22	28	42.5	21	5	20
TDC 1206M-D1		PT3/8	12			22	29	43.5			20
TDC 1207M-D1		PT1/2	15			22	33	47.5			20

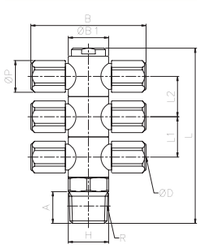
TDC-D2 Two-touch Double Connector



(Unit :mm)

Parts No.	Tube O. D ø D	PT Thread R	A	B	øB1	H	L1	L	øP	Orifice Dia. (Ømm)	Qty (EA)
TDC 0402M-D2	4	PT1/8	8	40	14	10	20	44	11	3.5	100
TDC 0404M-D2		PT1/4	12			14	24	48			100
TDC 0602M-D2	6	PT1/8	8	46	14	10	20	44	13.5	3.5	50
TDC 0604M-D2		PT1/4	12			14	24	48			50
TDC 0802M-D2	8	PT1/8	8	52	17	17	21	48	15.5	5	50
TDC 0804M-D2		PT1/4	11			17	24	51			50
TDC 0806M-D2		PT3/8	12			22	26	53			50
TDC 1004M-D2	10	PT1/4	11	61	22	22	27	60.5	19	5	25
TDC 1006M-D2		PT3/8	12			22	28	61.5			25
TDC 1007M-D2		PT1/2	15			22	32	65.5			25
TDC 1204M-D2	12	PT1/4	11	70	22	22	28	64.5	21	5	20
TDC 1206M-D2		PT3/8	12			22	29	65.5			20
TDC 1207M-D2		PT1/2	15			22	33	69.5			20

TDC-D3 Two-touch Double Connector



(Unit :mm)

Parts No.	Tube O. D ø D	PT Thread R	A	B	øB1	H	L1	L2	L	øP	Orifice Dia. (Ømm)	Qty (EA)
TDC 0402M-D3	4	PT1/8	8	40	14	10	14	14	58	11	3.5	100
TDC 0404M-D3		PT1/4	12			14			62			100
TDC 0602M-D3	6	PT1/8	8	46	14	10	14	14	58	13.5	3.5	50
TDC 0604M-D3		PT1/4	12			14			62			50
TDC 0802M-D3	8	PT1/8	8	52	17	17	16	16	64	15.5	5	50
TDC 0804M-D3		PT1/4	11			17			67			50
TDC 0806M-D3		PT3/8	12			22			69			50
TDC 1004M-D3	10	PT1/4	11	61	22	22	20	20	80.5	19	5	25
TDC 1006M-D3		PT3/8	12			22			81.5			25
TDC 1007M-D3		PT1/2	15			22			85.5			25
TDC 1204M-D3	12	PT1/4	11	70	22	22	22	22	86.5	21	5	20
TDC 1206M-D3		PT3/8	12			22			87.5			20
TDC 1207M-D3		PT1/2	15			22			91.5			20

SPEED CONTROL VALVES

Usages

- These valves are used for flow control of air pressure driving devices.
- These valves can be useful for control and operation of cylinders and other devices in a confined space.

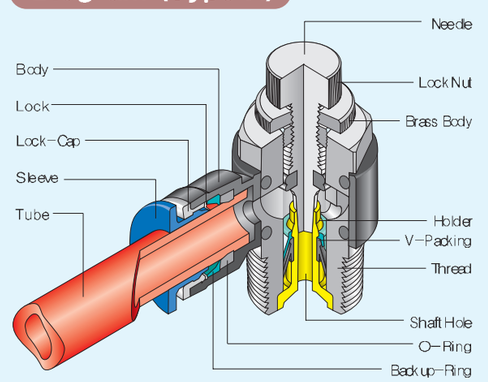
Features

- Flow control is possible from low volume to large volume.
- Valve configuration and dimensions are uniform for different valve openings so that they facilitate applications in diverse circumstances.
- Same flow rate can be achieved regardless of valve size.
- Control modes (Meter In or Out) are indicated as A or B on needle area.

Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg (10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

Diagram (Type A)



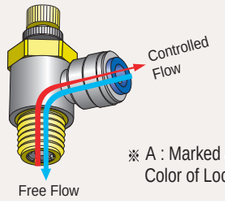
※ Type B: Holder and V-Packing are assembled in opposite way of Type A.

ORDER INFORMATION

B | CUE | 06 | (04) | 06 | M | - (BK)

Tube O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Part Name	
Material	●Acetal : A ●Polybutylene Terepthalate(PBT) : B
Tube O.D Stem O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8" 07=PT1/2", M5=M5×0.8P, M6=M6×1.0P
Stem O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Description	Metric Size : M
Body Color	●Black : BK

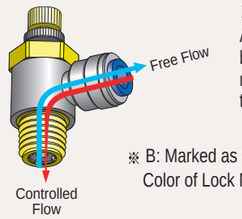
Flow controller Labeling



1)Meter-Out Control

Air inflow through screw section is controlled but the air that enters through the fitting is not controlled and allowed to flow through the screw section.

※ A : Marked as 'A' in needle area.
Color of Lock Nut : Silver



2)Meter-In Control

Air that enters through Fitting is controlled but the air that enters through the screw is not controlled and allowed to flow through the fitting.

※ B: Marked as 'A' in needle area.
Color of Lock Nut : Gold

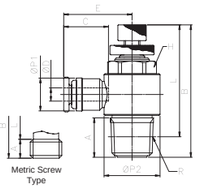
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- If needle is used in rough manner, it can be separated from the main body.
- These valves may have minute amounts of air leak. Do not use these products where required air leak is zero.

⚠ Warning

- Verify product features and circuit diagram and ensure that air control direction has been set right before using product.
- When controlling speed of a driving device, slowly open the valve from needle fully closed condition and apply control.
- Do not forcibly drive or rotate the product where the main body itself rotates.

CUE-A Control Universal Elbow A Type

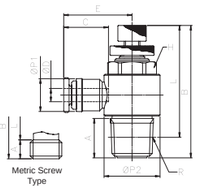


(Unit :mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	E	C	∅P1	∅P2	Hex H	Qty (EA)
BCUE 04M5MA	4	M5X0.8	3.5	28.5	25	17	14	10	11.5	8	50
BCUE 0402MA		PT1/8	8	34	30	19			14	10	50
BCUE 0404MA		PT1/4	12	41	35	20			17.5	14	50
BCUE 06M5MA	6	M5X0.8	3.5	28.5	25	18	16	12	11.5	8	50
BCUE 0602MA		PT1/8	8	34	30	20			14	10	50
BCUE 0604MA		PT1/4	12	41	35	21			17.5	14	50
BCUE 0606MA		PT3/8	12	44	37.5	23			21	17	50
BCUE 0802MA	8	PT1/8	8	34	30	23	17	14	14	10	25
BCUE 0804MA		PT1/4	12	41	35	25			17.5	14	25
BCUE 0806MA		PT3/8	12	44	37.5	26			21	17	25
BCUE 0807MA		PT1/2	15	50	41.5	29			26	22	25
BCUE 1004MA	10	PT1/4	12	41	35	28	20	17.5	17.5	14	20
BCUE 1006MA		PT3/8	12	44	37.5	29			21	17	2
BCUE 1007MA		PT1/2	15	50	41.5	32			26	22	20
BCUE 1206MA	12	PT3/8	12	44	37.5	31	24	21.5	21	17	20
BCUE1207MA		PT1/2	15	50	41.5	34			26	22	20

● Use a silver plated Lock Nut with 'A' inscribed on top of Handle. (Check valve automatic pressure: 0.5kgf/Cm²)

CUE-B Control Universal Elbow B Type

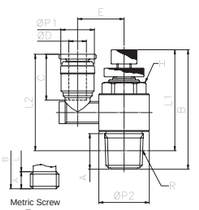


(Unit :mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	E	C	∅P1	∅P2	Hex H	Qty (EA)
BCUE 04M5MB	4	M5X0.8	3.5	28.5	25	17	14	10	11.5	8	50
BCUE 0402MB		PT1/8	8	34	30	19			14	10	50
BCUE 0404MB		PT1/4	12	41	35	20			17.5	14	50
BCUE 06M5MB	6	M5X0.8	3.5	28.5	25	18	16	12	11.5	8	50
BCUE 0602MB		PT1/8	8	34	30	20			14	10	50
BCUE 0604MB		PT1/4	12	41	35	21			17.5	14	50
BCUE 0606MB		PT3/8	12	44	37.5	23			21	17	50
BCUE 0802MB	8	PT1/8	8	34	30	23	17	14	14	10	25
BCUE 0804MB		PT1/4	12	41	35	25			17.5	14	25
BCUE 0806MB		PT3/8	12	44	37.5	26			21	17	25
BCUE 0807MB		PT1/2	15	50	41.5	29			26	22	25
BCUE 1004MB	10	PT1/4	12	41	35	28	20	17.5	17.5	14	20
BCUE 1006MB		PT3/8	12	44	37.5	29			21	17	2
BCUE 1007MB		PT1/2	15	50	41.5	32			26	22	20
BCUE 1206MB	12	PT3/8	12	44	37.5	31	24	21.5	21	17	20
BCUE1207MB		PT1/2	15	50	41.5	34			26	22	20

● Use a silver plated Lock Nut with 'B' inscribed on top of Handle. (Check valve automatic pressure: 0.5kgf/Cm²)

CES-A Control Elbow Straight A Type

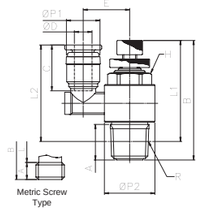


(Unit :mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L1	L2	C	E	∅P1	∅P2	Hex H	Qty (EA)
BCES 04M5MA	4	M5X0.8	3.5	28.5	25	27	13.5	11	10	11.5	8	50
BCES 0402MA		PT1/8	8	34	30	32		14		14	10	50
BCES 06M5MA	6	M5X0.8	3.5	28.5	25	28	16	12	12	11.5	8	50
BCES 0602MA		PT1/8	8	34	30	33		13		14	10	50
BCES 0604MA		PT1/4	12	41	35	34		16		18	14	50
BCES 0802MA	8	PT1/8	8	34	30	34	17	15	14	14	10	25
BCES 0804MA		PT1/4	12	41	35	35		17		18	14	25
BCES 0806MA		PT3/8	12	44	37.5	37.5		20		21	17	25
BCES 1004MA	10	PT1/4	12	41	35	35	20	17	17.6	18	14	20
BCES 1006MA		PT3/8	12	44	37.5	37.5		19		21	17	20
BCES 1206MA	12	PT3/8	12	44	37.5	37.5	24	21	21.5	21	17	20
BCES 1207MA		PT1/2	15	50	41.5	41.5		25		26	22	20

● Use a silver plated Lock Nut with 'A' inscribed on top of Handle. (Check valve automatic pressure: 0.5kgf/Cm²)

CES-B Control Elbow Straight B Type

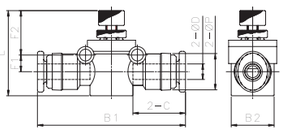


(Unit :mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L1	L2	C	E	∅P1	∅P2	Hex H	Qty (EA)
BCES 04M5MB	4	M5X0.8	3.5	28.5	25	27	14	11	10	11.5	8	50
BCES 0402MB		PT1/8	8	34	30	32		14		14	10	50
BCES 06M5MB	6	M5X0.8	3.5	28.5	25	28	16	12	12	11.5	8	50
BCES 0602MB		PT1/8	8	34	30	33		13		14	10	50
BCES 0604MB		PT1/4	12	41	35	34		16		18	14	50
BCES 0802MB	8	PT1/8	8	34	30	34	17	15	14	14	10	25
BCES 0804MB		PT1/4	12	41	35	35		17		18	14	25
BCES 0806MB		PT3/8	12	44	37.5	38		20		21	17	25
BCES 1004MB	10	PT1/4	12	41	35	38	20	17	17.6	18	14	20
BCES 1006MB		PT3/8	12	44	37.5	41		19		21	17	20
BCES 1206MB	12	PT3/8	12	44	37.5	43	24	21	21.5	21	17	20
BCES 1207MB		PT1/2	15	50	41.5	44		25		26	22	20

● Use a gold plated Lock Nut with 'B' inscribed on top of Handle. (Check valve automatic pressure: 0.5kgf/Cm²)

CUS Control Union Straight



(Unit :mm)

Parts No.	Tube O.D ∅D	B1	B2	∅P	L	C	F1	F2	∅d	J	Qty (EA)
BCUS 0404M	4	40	13	10	23	14	4.5	12	3.2	14	50
BCUS 0606M	6	48	17.5	12	30.5	16	7.5	15.5	3.2	20	50
BCUS 0808M	8	52	17.5	14	31.5	17	7.5	15	4.3	21	25
BCUS 1010M	10	61	21.5	17.5	34	20	9	15	4.3	26	20
BCUS 1212M	12	64	23	21.5	35.5	22	9.5	14.5	4.3	26	20

THROTTLE VALVES

ORDER INFORMATION

B | TUE | 06 | (04) | 06 | M | - (BK)

Tube O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Part Name	
Material	•Acetal : A •Polybutylene Terepthalate(PBT) : B
Tube O.D Stem O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Thread Type	02=PT1/8″, 04=PT1/4″, 06=PT3/8″ 07=PT1/2″, M5=M5×0.8P, M6=M6×1.0P
Stem O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Description	Metric Size : M
Body Color	•Black : BK

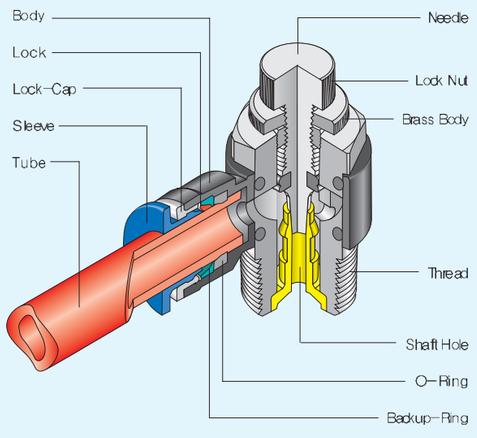
Usages

- These valves are used for flow control of air pressure driving devices.
- These valves can be useful for control and operation of cylinders and other devices in a confined space.

Features

- Flow control is possible from low volume to large volume.
- Valve configuration and dimensions are uniform for different valve openings so that they facilitate applications in diverse circumstances.
- Same flow rate can be achieved regardless of valve size.

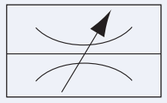
Diagram



Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg (10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

Throttle Valve Label



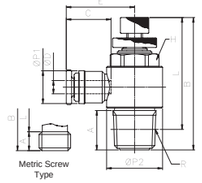
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- If needle is used in rough manner, it can be separated from the main body.
- These valves may have minute amounts of air leak. Do not use these products where required air leak is zero.

⚠ Warning

- Verify product features and circuit diagram and ensure that air control direction has been set right before using product.
- When controlling speed of a driving device, slowly open the valve from needle fully closed condition and apply control.
- Do not forcibly drive or rotate the product where the main body itself rotates.

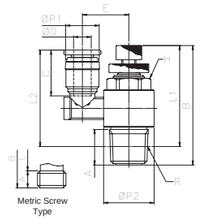
TUE Throttle Universal Elbow



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	E	C	ø P1	ø P2	Hex H	Qty (EA)
BTUE 04M5M	4	M5X0.8	3.5	28.5	25	16.5	13.5	10	11.5	8	50
BTUE 0402M		PT1/8	8	34	30	18			14	10	50
BTUE 0404M		PT1/4	12	41	35	19.5			17.5	14	50
BTUE 06M5M	6	M5X0.8	3.5	28.5	25	18	15.5	12	11.5	8	50
BTUE 0602M		PT1/8	8	34	30	19.5			14	10	50
BTUE 0604M		PT1/4	12	41	35	21			17.5	14	50
BTUE 0606M		PT3/8	12	44	37.5	22.5			21	17	50
BTUE 0802M	8	PT1/8	8	34	30	22	16.5	14	14	10	25
BTUE 0804M		PT1/4	12	41	35	24			17.5	14	25
BTUE 0806M		PT3/8	12	44	37.5	25.5			21	17	25
BTUE 0807M		PT1/2	15	50	41.5	28			26	22	25
BTUE 1004M	10	PT1/4	12	41	35	27	19.5	17.5	17.5	14	20
BTUE 1006M		PT3/8	12	44	37.5	28.5			21	17	20
BTUE 1007M		PT1/2	15	50	41.5	31			26	22	20
BTUE 1206M	12	PT3/8	12	44	37.5	30.5	23.5	21.5	21	17	20
BTUE 1207M		PT1/2	15	50	41.5	33			26	22	20

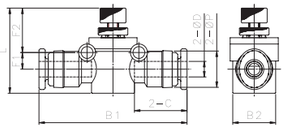
TES Throttle Elbow Straight



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L1	L2	C	ø P1	ø P2	E	Hex H	Qty (EA)
BTES 04M5M	4	M5X0.8	3.5	28.5	25	26.5	13.5	10	11.5	8	8	50
BTES 0402M		PT1/8	8	34	30	31.5			14	10	10	50
BTES 06M5M	6	M5X0.8	3.5	28.5	25	27.5	15.5	12	11.5	8	8	50
BTES 0602M		PT1/8	8	34	30	32.5			14	10	10	50
BTES 0604M		PT1/4	12	41	35	33.5			18	14	14	50
BTES 0802M	8	PT1/8	8	34	30	33.5	16.5	14	14	10	10	25
BTES 0804M		PT1/4	12	41	35	34.5			18	14	14	25
BTES 0806M		PT3/8	12	44	37.5	37			21	17	17	25
BTES 1004M	10	PT1/4	12	41	35	37.5	19.5	17.6	18	14	14	20
BTES 1006M		PT3/8	12	44	37.5	40			21	17	17	20
BTES 1206M	12	PT3/8	12	44	37.5	42	23.5	21.5	21	17	17	20
BTES 1207M		PT1/2	15	50	41.5	43.5			26	22	22	20

TUS Throttle Union Straight



(Unit:mm)

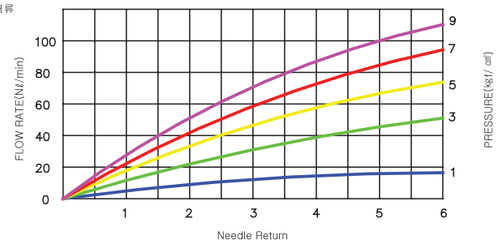
Parts No.	Tube O.D ø D	B1	B2	ø P	L	C	F1	F2	ø d	J	Qty (EA)
BTUS 0404M	4	38.5	13	10	23	13.5	4.5	12	3.2	14	50
BTUS 0606M	6	46.5	17.5	12	30.5	15.5	7.5	15.5	3.2	20	50
BTUS 0808M	8	50	17.5	14	31.5	16.5	7.5	15	4.3	21	25
BTUS 1010M	10	58	21.5	17.5	34	19.5	9	15	4.3	26	20
BTUS 1212M	12	62	23	21.5	35.5	21	9.5	14.5	4.3	26	20

FLOW RATE / CUE, CES TYPE

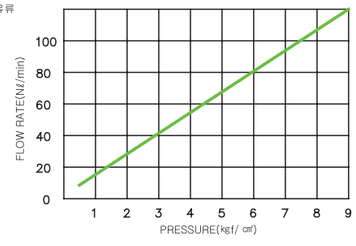
BCUE 04M5
BCUE 06M5

BCES 04M5
BCES 06M5

제어류

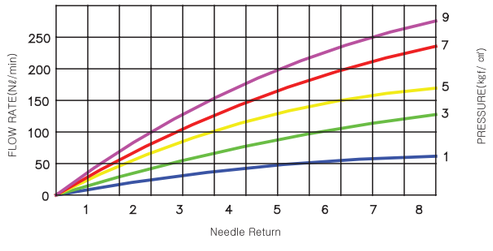


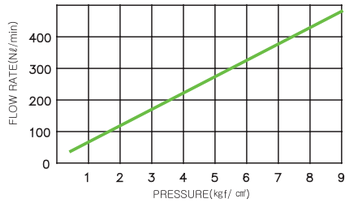
자유류



BCUE 0402M
BCUE 0602M
BCUE 0802M

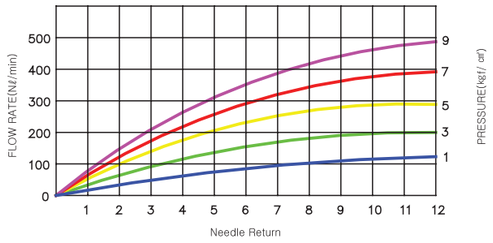
BCES 0402M
BCES 0602M
BCES 0802M

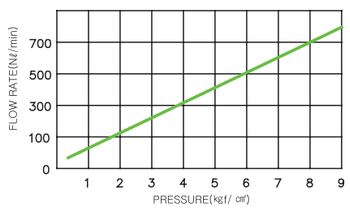




BCUE 0404M
BCUE 0604M
BCUE 0804M
BCUE 1004M

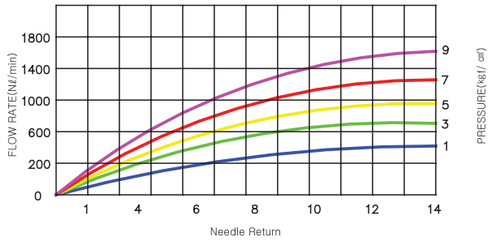
BCES 0404M
BCES 0604M
BCES 0804M
BCES 1004M

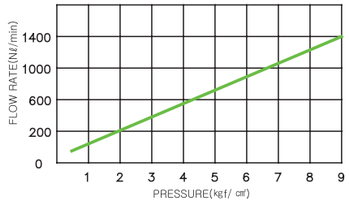




BCUE 0606M
BCUE 0806M
BCUE 1006M
BCUE 1206M

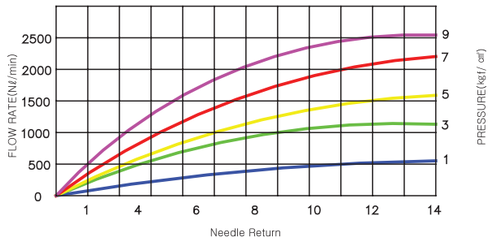
BCES 0606M
BCES 0806M
BCES 1006M
BCES 1206M

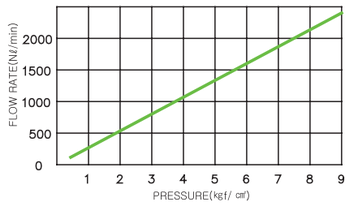




BCUE 0807M
BCUE 1007M
BCUE 1207M

BCES 0807M
BCES 1007M
BCES 1207M

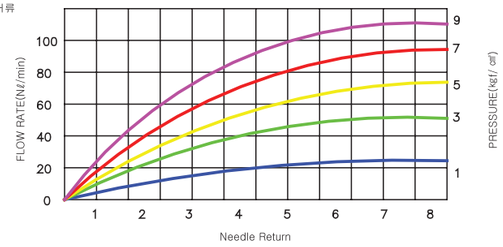




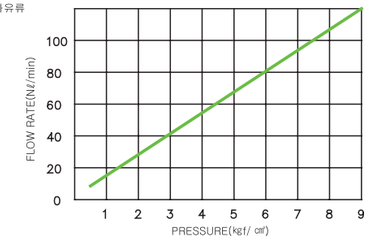
FLOW RATE / CUS TYPE

BCUS 0404M

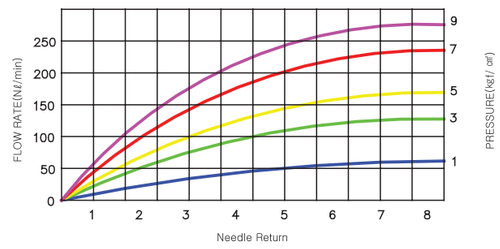
제어류

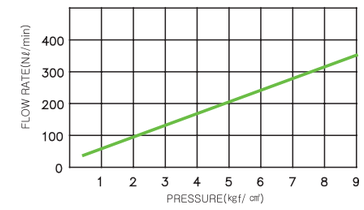


자유류

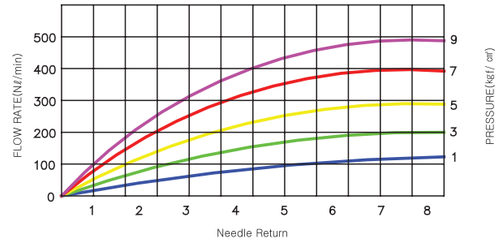


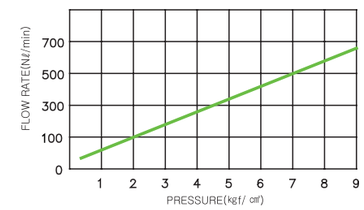
BCUS 0606M



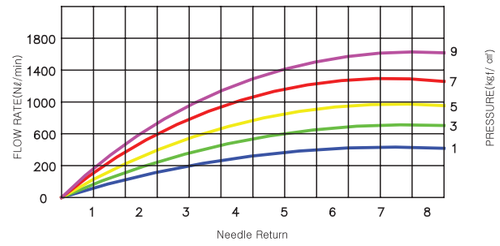


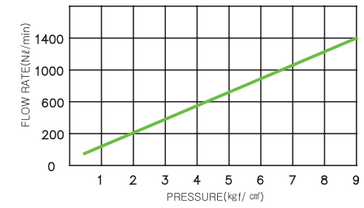
BCUS 0808M



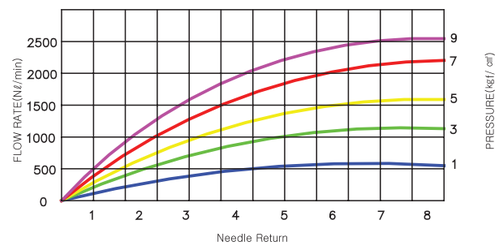


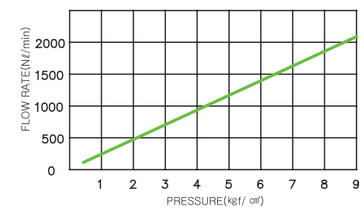
BCUS 1010M





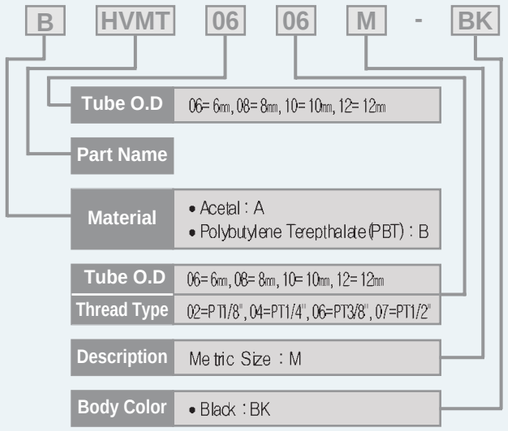
BCUS 1212M





HAND VALVES

ORDER INFORMATION



Usages

- These valves are used for open-close of air pressure in a device.
- These valves can be applied appropriately to user's intended usages (such as for Fitting-Tube or Thread).

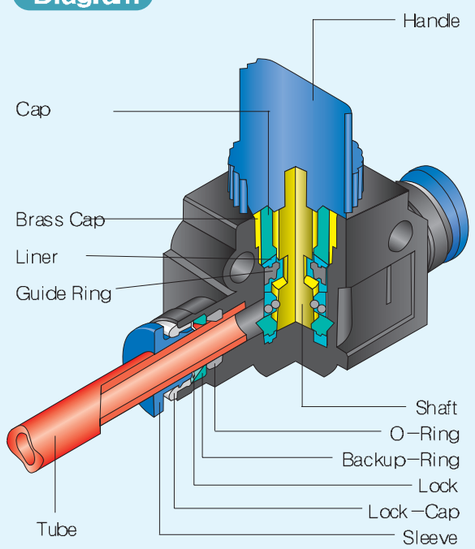
Features

- Hand valves are used to turn on or off air pressure in a pneumatic device.
- Three-way valves eliminate residual air pressure within device when closing while two-way valves do not have such a function.

Specification

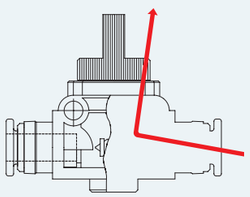
Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

Diagram



※Three-way valves and two-way valves

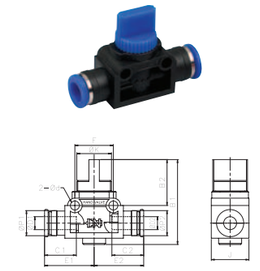
- Three-way valves close air flow while discharging residual air through the output side, thus ensuring safe adjustment or repair work of connected device
- Two-way valves do not discharge residual air pressure. Thus they are suitable for devices that do not require residual air bleeding, for air supply to such tanks and for devices where vacuum piping is used.



⚠ Safety Instruction

- Please read safety instructions (P. 5) of this Product Catalog before using these products.
- When operating the handle, make sure to turn it fully to either Close or Open direction. Otherwise, incomplete cutoff/open action can result in insufficient flow rate.

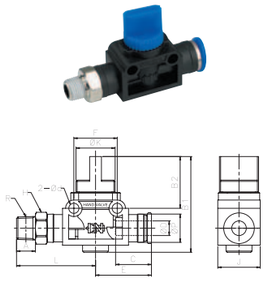
HVUC Hand Valve Union Connector



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	øP1	øP2	B1	B2	C1	C2	E1	E2	øK	J	F	ød	Qty (EA)
BHVUC 0606M	6	6	12	12	40.5	22	16	16	24	24	16.5	18	18.5	4.5	50
BHVUC 0806M	8	6	14	12	40.5	22	17	16	27	24	16.5	18	18.5	4.5	50
BHVUC 0808M		8	14	14	40.5	22	17	17	27	27					50
BHVUC 1010M	10	10	17.5	17.5	41.5	20	20	20	31	31	19	21.5	24	4.5	25
BHVUC 1210M	12	10	21.5	17.5	41.5	20	22	20	34	31	19	21.5	24	4.5	20
BHVUC 1212M		12	21.5	21.5	41.5	20	22	22	34	34					20

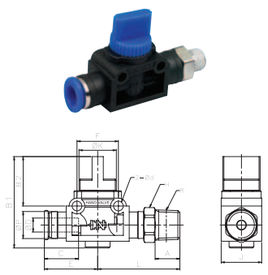
HVMT Hand Valve Male to Tube



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	øP	E	L	C	A	H	øK	ød	B1	B2	J	F	Orifice Dia. (ømm)	Qty (EA)
BHVMT 0602M	6	PT1/8	12	24	33.5	16	8	12	16.6	4.5	40.5	22	18	18.5	4	50
BHVMT 0604M		PT1/4	12	24	36.5	16	11	14							4	50
BHVMT 0606M		PT3/8	12	24	38.5	16	12	17							4	50
BHVMT 0802M	8	PT1/8	14	26	35.5	17	8	14	16.6	4.5	40.5	22	18	18.5	6	50
BHVMT 0804M		PT1/4	14	26	38.5	17	11	14							6	50
BHVMT 0806M		PT3/8	14	26	40	17	12	17							6	50
BHVMT 1004M	10	PT1/4	17.5	31	42.5	20	11	17	19	4.5	41.5	20	21.5	24	7	25
BHVMT 1006M		PT3/8	17.5	31	44	20	12	17							7	25
BHVMT 1007M		PT1/2	17.5	31	48	20	15	22							7	25
BHVMT 1204M	12	PT1/4	21.5	34	46	22	11	21	19	4.5	41.5	20	21.5	24	7.5	20
BHVMT 1206M		PT318	21.5	34	47	22	12	21							9	20
BHVMT 1207M		PT1/2	21.5	34	51	22	15	22							9	20

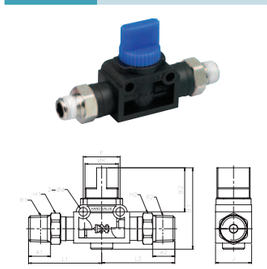
HVTM Hand Valve Tube to Male



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	øP	E	L	C	A	H	øK	ød	B1	B2	J	F	Orifice Dia. (ømm)	Qty (EA)
BHVTM 0602M	6	PT1/8	12	24	33.5	16	8	12	16.5	4.5	40.5	22	18	18.5	4	50
BHVTM 0604M		PT1/4	12	24	36.5	16	11	14							4	50
BHVTM 0606M		PT3/8	12	24	38.5	16	12	17							4	50
BHVTM 0802M	8	PT1/8	14	26	35.5	17	8	14	16.5	4.5	40.5	22	18	18.5	6	50
BHVTM 0804M		PT1/4	14	26	38.5	17	11	14							6	50
BHVTM 0806M		PT3/8	14	26	40	17	12	17							6	50
BHVTM 1004M	10	PT1/4	17.5	31	42.5	20	11	17	19	4.5	41.5	20	21.5	24	7	25
BHVTM 1006M		PT3/8	17.5	31	44	20	12	17							7	25
BHVTM 1007M		PT1/2	17.5	31	48	20	15	22							7	25
BHVTM 1204M	12	PT1/4	21.5	34	46	22	11	21	19	4.5	41.5	20	21.5	24	7.5	20
BHVTM 1206M		PT318	21.5	34	47	22	12	21							9	20
BHVTM 1207M		PT1/2	21.5	34	51	22	15	22							9	20

HVMM Hand Valve Male to Male

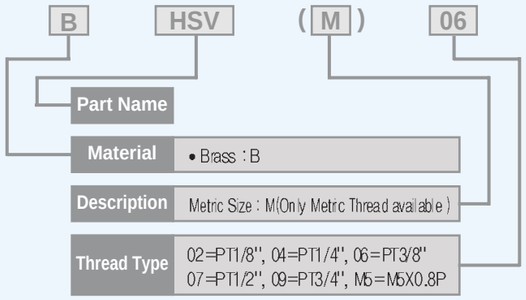


(Unit:mm)

Parts No.	PT Thread R1	PT Thread R2	H1	H2	A1	A2	L1	L2	øK	ød	B1	B2	F	J	Orifice Dia. (ømm)	Qty (EA)
BHVMM 0202	PT1/8	PT1/8	14	14	8	8	35.5	35.5	16.6	4.5	40.5	21.95	18.5	18	6	50
BHVMM 0402	PT1/4	PT1/8	14	14	11	8	38.5	35.5	16.6	4.5	40.5	21.95	18.5	18	6	50
BHVMM 0404		PT1/4	14	14	11	11	38.5	38.5							6	50
BHVMM 0604	PT3/8	PT1/4	21	21	12	11	47	46	19	4.5	41.5	20	24	21.5	7.5	25
BHVMM 0606		PT3/8	21	21	12	12	47	47							9	25
BHVMM 0706	PT1/2	PT3/8	22	21	15	12	51	47	19	4.5	41.5	20	24	21.5	9	20
BHVMM 0707		PT1/2	22	22	15	15	51	51							9	20

HAND SLIDE VALVES

ORDER INFORMATION



Usages

- These valves are used for open-close of air pressure in a device.

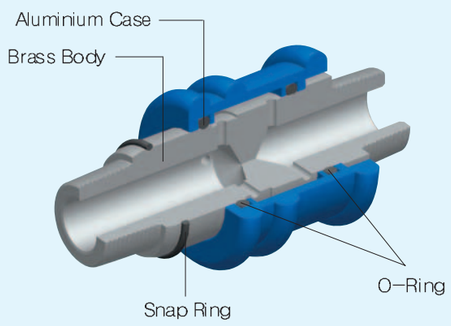
Features

- These products are made of brass and aluminum and thus can be used for long period of time in outdoor environments.

Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)

Diagram



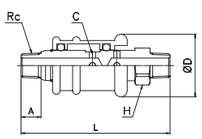
⚠ Safety Instruction

- Please read safety instructions (P. 5) of this Product Catalog before using these products.
- When opening the flow, open valve fully. Otherwise, incomplete open action can result in insufficient flow rate.

⚠ Warning

- Check flow direction of product before using it. Wrong flow direction can result in bodily injury or device damage.
- When disassembling device, make sure the residual air pressure inside of device is zero before the work.

HSV Hand Slide Valve

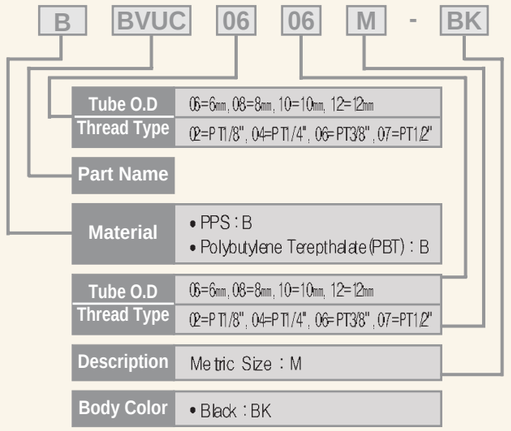


(Unit:mm)

Parts No.	PT Thread Rc	A	C	L	D	Hex H	Qty (EA)
BHVS M5	M5	4.5	2	46	22	12	
BHVS 02	PT1/8	7.5	2	53	22	12	
BHVS 04	PT1/4	8.5	2.5	66	25	17	
BHVS 06	PT3/8	11	2.5	68	29	22	
BHVS 07	PT1/2	12	2.5	75	32	24	
BHVS 09	PT3/4	14	2.5	80	47	30	

BALL VALVES

ORDER INFORMATION



Usages

- These valves are used for open-close of air pressure in a device.
- These valves can be applied appropriately to suit the user's intended application (Fitting-Tube, Thread).
- Bulkhead products are suitable for tubing fixation.

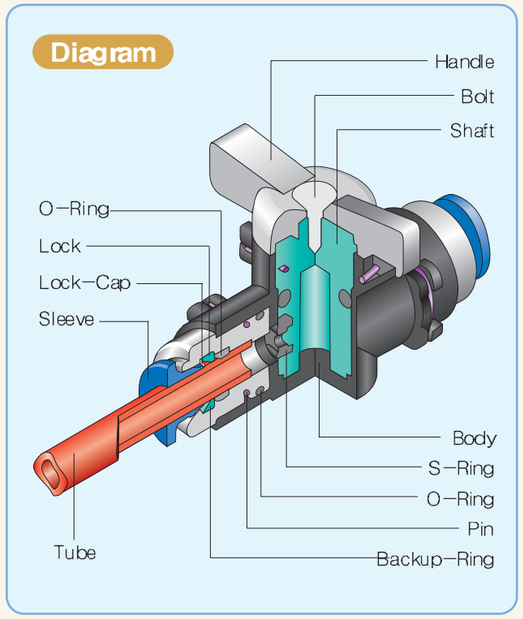
Features

- These products are made of PPS.
- Compressed air and water can be used with these valves.
- These valves are small in size but have sufficient effective cross sections corresponding to tube dimensions.

Specification

Fluid / Conditions	Air	Water
Pressure	0 ~ 1.0Mpa (10kgf/cm²)	0~0.3Mpa (3kgf/cm²)
Vacuum	−750mmHg(10Torr)	—
Temperature	0℃ ~ 60℃	
Hose Used	Polyurethane, Nylon, Polyethylene	

Diagram



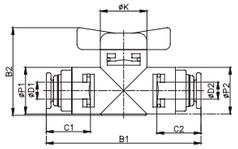
⚠ Safety Instruction

- Please read safety instructions (P.5) of this Product Catalog before using these products.
- When operating the handle, make sure to turn it fully to either Close or Open direction. Otherwise, incomplete cutoff/open action can result in insufficient flow rate.

⚠ Warning

- When using water as the fluid medium, the operating pressure must not exceed 0~3kgf/cm². Do not use in situations subject to vibration, bending or shock.
- Verify Lock Pin is installed correctly before using a valve. If Lock Pin is missing, the main body will be disassembled.

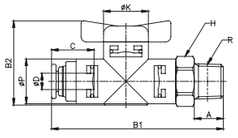
BVUC Ball Valve Union Connector



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	C1	C2	øP1	øP2	B1	B2	øK	Orifice Dia. (Ømm)	Qty (EA)
BBVUC 0606M	6	6	16	16	17	17	23.5	54.5	17	5	50
BBVUC 0806M	8	6	17	16	17	17	23	55.5	17	5	50
BBVUC 0808M		8	17	17	17	17	23.5	56	17	6	50
BBVUC 1010M	10	10	20	20	24	24	28	74	24	8	25
BBVUC 1210M	12	10	22	20	24	28	28	74	24	8	20
BBVUC 1212M		12	22	22	24	24	28	74	24	9	20

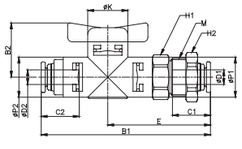
BVMC Ball Valve Male Connector



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	C	øP	B	A	J	øK	H	Orifice Dia. (Ømm)	Qty (EA)
BBVMC 0602M	6	PT1/8	16	17	32	8	61	17	17	5	50
BBVMC 0604M		PT1/4				11	64				50
BBVMC 0606M		PT3/8				12	65				50
BBVMC 0802M	8	PT1/8	17	17	32	8	63	17	17	6	50
BBVMC 0804M		PT1/4				11	66				50
BBVMC 0806M		PT3/8				12	67				50
BBVMC 1004M	10	PT1/4	20	24	40.5	11	82	24	24	8	25
BBVMC 1006M		PT3/8				12	83				25
BBVMC 1007M		PT1/2				15	86				25
BBVMC 1204M	12	PT1/4	22	24	40.5	11	82	24	24	9	20
BBVMC 1206M		PT3/8				12	83				20
BBVMC 1207M		PT1/2				15	86				20

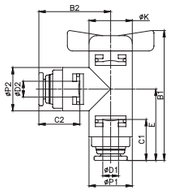
BVBU Ball Valve Bulkhead Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	Metric Thread M	C1	C2	øP	E	B1	B	H1	H2	Orifice Dia. (Ømm)	Qty (EA)
BBVBU 0606M	6	6	M14X1.0	16	16	17	43	23	71	17	19	5	50
BBVBU 0806M	8	6	M16X1.0	17	16	17	44	23	73	17	19	5	50
BBVBU 0808M		8		17	17							6	50
BBVBU 1010M	10	10	M20X1.0	17	20	24	53	28	91	24	24	7	25
BBVBU 1210M	12	10	M22X1.0	22	20	24	54	28	92	24	24	7	20
BBVBU 1212M		12		22	22							8	20

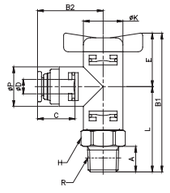
BVEU Ball Valve Elbow Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	C1	C2	øP1	øP2	B1	B	øK	L	Orifice Dia. (Ømm)	Qty (EA)
BBVEU 0606M	6	6	16	16	17	17	27.5	50.5	17	27	5	50
BBVEU 0608M		8	16	14			28	50.5			5	50
BBVEU 0806M	8	6	14	16	17	17	27.5	51	17	28	5	50
BBVEU 0808M		8	17	17			28	51			6	50
BBVEU 1010M	10	10	20	20	24	24	37	65.5	24	37.5	8	25
BBVEU 1012M		12	20	22			37	37			8	20
BBVEU 1210M	12	10	22	20	24	24	37	37	24	37.5	8	20
BBVEU 1212M		12	22	22			37	65.5			9	20

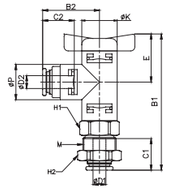
BVME Ball Valve Male Elbow



(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	C	øP	L	E	B	B1	A	øK	H	Orifice Dia. (Ømm)	Qty (EA)
BBVME 0602M	6	PT1/8	16	17	33.5	23	57	28	8	17	17	5	50
BBVME 0604M		PT1/4	16	17	36.5	23	60	28	11			5	50
BBVME 0606M		PT3/8	16	17	37.5	23	61	28	12			5	50
BBVME 0802M	8	PT1/8	17	17	33.5	23	57	29	8	17	17	6	50
BBVME 0804M		PT1/4	17	17	36.5	23	60	29	11			6	50
BBVME 0806M		PT3/8	17	17	37.5	23	61	29	12			6	50
BBVME 1004M	10	PT1/4	20	24	44.5	28	72.5	38	11	24	24	8	25
BBVME 1006M		PT3/8	20	24	45.5	28	73.5	38	12			8	25
BBVME 1007M		PT1/2	20	24	48.7	28	76.5	38	15			8	25
BBVME 1204M	12	PT1/4	22	24	44.5	28	72.5	38	11	24	24	9	20
BBVME 1206M		PT3/8	22	24	45.5	28	73.5	38	12			9	20
BBVME 1207M		PT1/2	22	24	48.5	28	76.5	38	15			9	20

BVBE Ball Valve Bulkhead Elbow



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	Metric Thread M	C1	C2	øP1	E	B1	B	øK	H1	H2	Orifice Dia. (Ømm)	Qty (EA)
BBVBE 0606M	6	6	M14X1.0	15.5	15.5	17	23	27.5	65.5	17	17	19	5	50
BBVBE 0806M	8	6	M16X1.0	16.5	15.5	17	23	27.5	66.5	17	17	19	5	50
BBVBE 0808M		8	M16X1.0	16.5	16.5	17	23	28					6	50
BBVBE 1010M	10	10	M20X1.0	19.5	19.5	24	28	37	81	24	24	24	7	25
BBVBE 1210M	12	10	M22X1.0	21	19.5	24	28	37	81	24	24	24	7	20
BBVBE 1212M		12	M22X1.0	21	21	24	28	37					8	20

CHECK VALVES

ORDER INFORMATION

B | CVMC | 06 | 02 | M | - | (BK)

Tube O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8" 07=PT1/2", M5=M5X0.8P, M6=M6X1.0P
Part Name	
Material	•Brass : B •Polybutylene Terepthalate(PBT) : B
Tube O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8" 07=PT1/2", M5=M5X0.8P, M6=M6X1.0P
Description	Metric Size : M
Body Color	•Black : BK

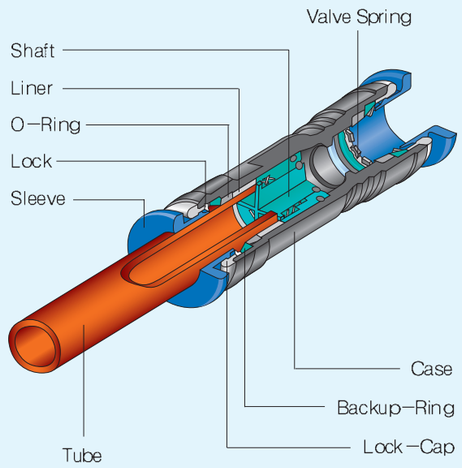
Usages

- Check valves are used where air flow has to be in one direction only.
- These valves are used where the air flow has to be constant without variation in the fluid pressure at the output side.

Features

- Check valves ensure that air flows in one direction only and block air flow of reverse direction.
- Check valves operate at the pressure of 0.1kgf/cm² and 1.42(PS) vacuum pressure is maintained. They are connected at low pressure.

Diagram



Specification

Conditions \ Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	-750mmHg(10Torr)
Temperature	0℃ ~ 60℃
Hose Used	Polyurethane, Nylon, Polyethylene

Control Method

Type	Meter IN	Meter OUT
Air Flow	Thread to Tube	Tube to Thread
CVMC		
CVBU		
CVUC	Just keep the direction marked on the Body	

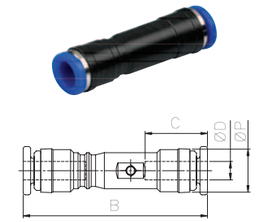
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- When tightening a screw product, screw can be stuck into the main body, resulting in a malfunction.
- Verify air flow direction before using a check valve.

⚠ Warning

- In case of too frequent operations of a valve body, excessive heat generation could inflict burn injury to human skin.

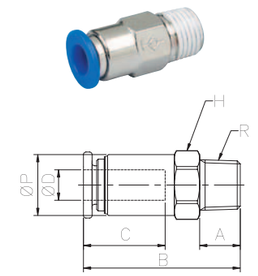
CVUC Check Valve Union Connector



(Unit:mm)

Parts No.	Tube O.D ØD	C	ØP	B	Qty (EA)
BCVUC 0404M	4	14	10	42	50
BCVUC 0606M	6	15	12	45	50
BCVUC 0808M	8	17	14	53	50
BCVUC 1010M	10	20	17.5	58	25
BCVUC 1212M	12	22	21.5	70	20

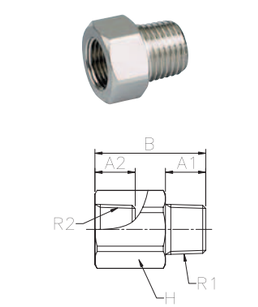
CVMC Check Valve Male Connector



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	A	ØP	C	B	H	Qty (EA)
BCVMC 04M5M	4	M5X0.8	4	10	14	32	10	100
BCVMC 04M6M		M6X1.0	4	10	14	32	10	100
BCVMC 0402M		PT1/8	8	10	14	36	10	100
BCVMC 0602M	6	PT1/8	8	12	15	30	12	50
BCVMC 0604M		PT1/4	11	13	15	30	14	50
BCVMC 0802M	8	PT1/8	8	14	17	43	14	50
BCVMC 0804M		PT1/4	11	14	17	30	14	50
BCVMC 1006M	10	PT3/8	12	17.5	20	46	17	25
BCVMC 1007M		PT1/2	15	17.5	20	46	22	25
BCVMC 1206M	12	PT3/8	12	21.5	22	53	22	20
BCVMC 1207M		PT1/2	15	21.5	22	53	22	20

CVBU Check Valve BUsh

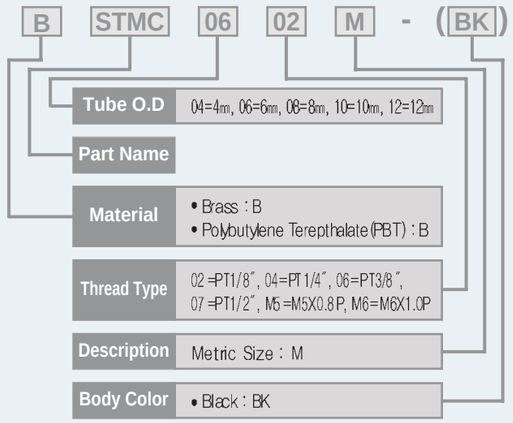


(Unit:mm)

Parts No.	PT Thread R1	PT Thread R2	A1	A2	B	H	Qty (EA)
BCVBU 0202M	PT1/8	PT1/8	8	8	22	14	100
BCVBU 0404M	PT1/4	PT1/4	11	11	28	17	50
BCVBU 0606M	PT3/8	PT3/8	12	12	37	24	25
BCVBU 0707M	PT1/2	PT1/2	15	15	45	27	20

STOP FITTINGS

ORDER INFORMATION



Usages

- Stop fittings are used mostly where pneumatic tubing is frequently changed.
- Stop fittings are also used widely in laboratory and instructional devices.

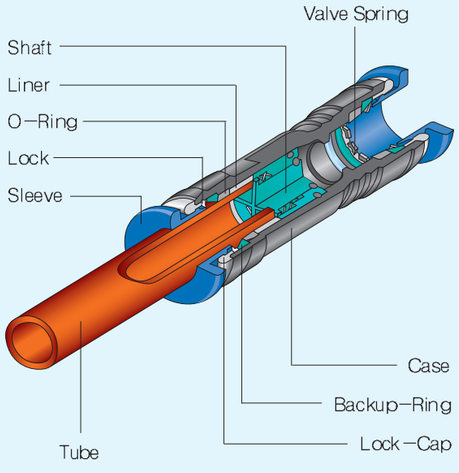
Features

- Stop Valve is imbedded to allow bi-directional air flow when connected to Tube. When Tube is separated air flow stops.
- Interior is of two-stage structure to facilitate attachment and detachment.

Specification

Fluid Medium	Air
Op. Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

Diagram



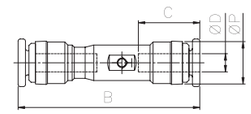
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- Verify flow direction of Stop Fitting before using it. Wrong flow connection can result in no air flow.

⚠ Warning

- When separating Tube with pressure applied to Stop Fitting, the Tube may abruptly shoot out and cause bodily injury.

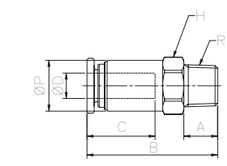
STUC STop fitting Union Connector



(Unit:mm)

Parts No.	Tube O.D ØD	C	ØP	B	Qty (EA)
BSTUC 04M	4	14	10	42	100
BSTUC 06M	6	16	1	45	50
BSTUC 08M	8	17	14	53	50
BSTUC 10M	10	20	17.5	58	25
BSTUC 12M	12	22	21.5	70	20

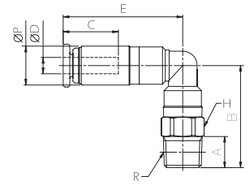
STMC STop fitting Male Connector



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	A	ØP	C	B	H	Qty (EA)
BSTMC 0402M	4	PT1/8	8	10	14	23	10	100
BSTMC 0602M	6	PT1/8	8	12	16	26	12	50
BSTMC 0604M		PT1/4	11	13			14	50
BSTMC 0802M	8	PT1/8	8	14	17	35	14	50
BSTMC 0804M		PT1/4	11	14			14	50
BSTMC 0806M		PT3/8	12	14			17	50
BSTMC 1004M	10	PT1/4	11	17	20	39	17	25
BSTMC 1006M		PT3/8	12	17			17	25
BSTMC 1007M		PT1/2	15	17.5			22	25
BSTMC 1206M	12	PT3/8	12	21	22	46	21	20
BSTMC 1207M		PT1/2	15	22			22	20

STME STop fitting Male Elbow



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	C	E	ØP	B	H	A	Qty (EA)
BSTME 04M5M	4	M5X0.8	14	30	10	25	10	4	100
BSTME 04M6M		M6X1.0				25	10	4	100
BSTME 0402M		PT1/8				26.5	10	8	100
BSTME 06M5M	6	M5X0.8	16	33	12	27.5	12	4	50
BSTME 06M6M		M6X1.0				27.5	12	4	50
BSTME 0602M		PT1/8				29	12	8	50
BSTME 0604M		PT1/4				32	14	11	50
BSTME 0802M	8	PT1/8	17	40	14.5	30.5	14	8	50
BSTME 0804M		PT1/4				33.5	14	11	50
BSTME 0806M		PT3/8				35	17	12	50
BSTME 1004M	10	PT1/4	20	46	17.5	37.5	17	11	25
BSTME 1006M		PT3/8				39	17	12	25
BSTME 1007M		PT1/2				43	22	15	25
BSTME 1206M	12	PT3/8	22	54	22	41	21	12	20
BSTME 1207M		PT1/2				45	22	15	20

ROTARY JOINTS

ORDER INFORMATION

B | RHMC | 06 | 02 | M | - | (BK)

Tube O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Thread Type	02=PT1/8″, 04=PT1/4″, 06=PT3/8″ 07=PT1/2″, M5=M5×0.8P, M6=M6×1.0P
Part Name	
Material	●Brass : B ●Polybutylene Terepthalate(PBT) : B
Thread Type	02=PT1/8″, 04=PT1/4″, 06=PT3/8″ 07=PT1/2″, M5=M5×0.8P, M6=M6×1.0P
Description	Metric Size : M
Body Color	●Black : BK

Usages

- Rotary joints are used for piping of swing area and rotating area.
- Rotary joints are applied to Index Tables and industrial robots.

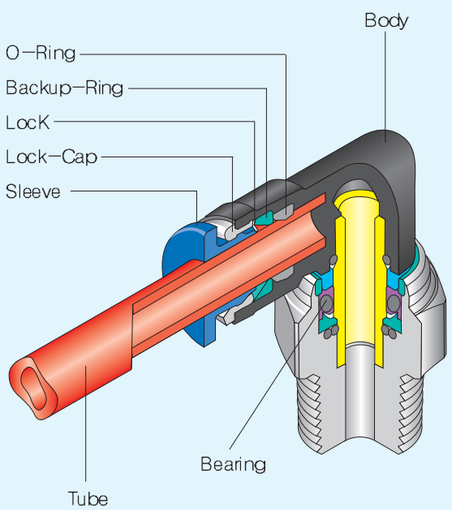
Features

- Bearings are imbedded to enable use in high speed rotation and swinging areas.
- High Rotary Joint, which has double bearings, are used where higher rotation rate than for regular Rotary Joint is required or for other difficult connections.

Specification

Fluid / Conditions	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)
Temperature	0℃ ~ 60℃
Hose Used	Polyurethane, Nylon, Polyethylene

Diagram



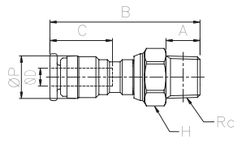
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- Tiny bearings are imbedded within a rotary joint. Therefore, applied load on a rotary joint should be kept a minimum.

⚠ Warning

- In case of high speed movement, use urethane tubing. Hard tubing can cause additional increase of the rotational load.

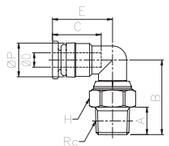
RJMC Rotary Joint Male Connector



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread Rc	A	B	ØP	C	RPM	Hex H	Qty (EA)
BRJMC 04M5M	4	M5X0.8	4	34	10	16	500	12	100
BRJMC 04M6M		M6X1.0	4						100
BRJMC 0402M		PT1/8	8						100
BRJMC 06M5M	6	M5X0.8	4	36.5	12	17	500	14	50
BRJMC 06M6M		M6X1.0	4						50
BRJMC 0602M		PT1/8	8						50
BRJMC 0604M		PT1/4	11						50
BRJMC 0802M	8	PT1/8	8	43.5	14	18.5	400	17	50
BRJMC 0804M		PT1/4	11						50
BRJMC 0806M		PT3/8	12						50
BRJMC 1006M	10	PT3/8	12	56	17.6	21	300	22	25
BRJMC 1007M		PT1/2	16						25
BRJMC 1206M	12	PT3/8	12	62	21.6	22.5	250	24	20
BRJMC 1207M		PT1/2	16						20

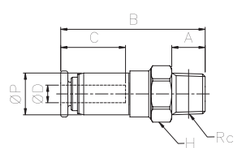
RJME Rotary Joint Male Elbow



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread Rc	A	B	E	ØP	C	RPM	Hex H	Qty (EA)
BRJME 04M5M	4	M5X0.8	4	21	17.5	10	14	500	12	100
BRJME 04M6M		M6X1.0	4	21						100
BRJME 0402M		PT1/8	8	22						100
BRJME 06M5M	6	M5X0.8	4	24.5	20.6	16	17	500	14	50
BRJME 06M6M		M6X1.0	4	24.5						50
BRJME 0602M		PT1/8	8	24.5						50
BRJME 0604M		PT1/4	11	24.5						50
BRJME 0802M	8	PT1/8	8	30.5	24	18	18.5	400	17	50
BRJME 0804M		PT1/4	11	30.5						5
BRJME 0806M		PT3/8	12	30.5						50
BRJME 1006M	10	PT3/8	12	35	28	17.6	21.5	300	22	25
BRJME 1007M		PT1/2	16	35						25
BRJME 1206M	12	PT3/8	12	40.5	31	21.6	22.5	250	24	20
BRJME 1207M		PT1/2	16	40.5						20

RHMC Rotary Joint High Male Connector

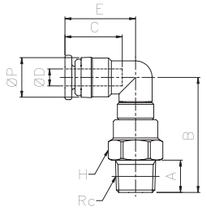


(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread Rc	A	B	ØP	C	RPM	Hex H	Qty (EA)
BRHMC 04M5M	4	M5X0.8	4	43	10	16	1500	12	100
BRHMC 04M6M		M6X1.0	4	43					100
BRHMC 0402M		PT1/8	8	47					100
BRHMC 0602M	6	PT1/8	8	52	16	17	1200	17	50
BRHMC 0604M		PT1/4	11	52					50
BRHMC 0802M	8	PT1/8	8	52.5	18	18.5	1200	17	50
BRHMC 0804M		PT1/4	11	55.5					50
BRHMC 1006M	10	PT3/8	12	65	17.6	21.5	1000	24	25
BRHMC 1007M		PT1/2	16	68					25
BRHMC 1206M	12	PT3/8	12	67	21.6	22.5	1000	24	20
BRHMC 1207M		PT1/2	16	70					20

ROTARY JOINTS

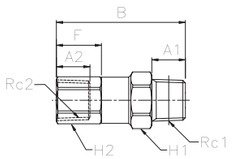
RHME Rotary Joint High Male Elbow



(Unit :mm)

Parts No.	Tube O.D ØD	PT Thread Rc	A	B	E	ØP	C	RPM	Hex H	Qty (EA)
BRHME 04M5M	4	M5X0.8	4	33	17.5	10	14	1500	12	100
BRHME 04M6M		M6X1.0	4	33						100
BRHME 0402M		PT1/8	8	37.5						100
BRHME 0602M	6	PT1/8	8	43	20.6	16	17	1200	17	50
BRHME 0604M		PT1/4	11	46						50
BRHME 0802M	8	PT1/8	8	44	24	18	18.5	1200	17	50
BRHME 0804M		PT1/4	11	47						50
BRHME 1006M	10	PT3/8	12	55	28	17.6	21.5	1000	24	25
BRHME 1007M		PT1/2	16	58						25
BRHME 1206M	12	PT3/8	12	57	31	21.6	22.5	1000	24	20
BRHME 1207M		PT1/2	16	60						20

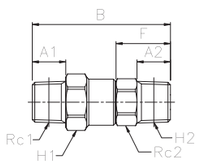
RHMF Rotary Joint High Male to Female



(Unit :mm)

Parts No.	PT Thread Rc1	PT Thread Rc2	A1	A2	B	RPM	Hex H1	Hex H2	Qty (EA)
BRHMF 0202M	PT1/8	PT1/8	4	5	49	1200	17	14	100
BRHMF 0204M	PT1/8	PT1/4	8	9	52			17	100
BRHMF 0402M	PT1/4	PT1/8	8	9	52	1200	17	14	50
BRHMF 0404M	PT1/4	PT1/4	11	12	55			17	50
BRHMF 0606M	PT3/8	PT3/8	8	9	63.5	1000	24	22	25
BRHMF 0607M	PT3/8	PT1/2	11	17	66.5			24	25
BRHMF 0706M	PT1/2	PT3/8	16	13	66.5	1000	24	22	20
BRHMF 0707M	PT1/2	PT1/2	16	17	69.5			24	20

RHMM Rotary Joint High Male to Male



(Unit :mm)

Parts No.	PT Thread Rc1	PT Thread Rc2	A1	A2	B	RPM	Hex H1	Hex H2	Qty (EA)
BRHMM 0202M	PT1/8	PT1/8	8	8	49	1200	17	14	100
BRHMM 0204M	PT1/8	PT1/4	8	11	52			14	100
BRHMM 0402M	PT1/4	PT1/8	11	8	52	1200	17	14	50
BRHMM 0404M	PT1/4	PT1/4	11	11	55			14	50
BRHMM 0606M	PT3/8	PT3/8	12	12	63.5	1000	24	22	25
BRHMM 0607M	PT3/8	PT1/2	12	16	66.5			22	25
BRHMM 0706M	PT1/2	PT3/8	16	12	66.5	1000	24	22	20
BRHMM 0707M	PT1/2	PT1/2	16	16	69.5			22	20

MAIN BLOCKS

ORDER INFORMATION

B MCS 06 (04) 06 M - (BR)

Tube O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Part Name	
Material	• Acetal : A • Brass :B • SUS :S
Tube O.D Stem O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8" 07=PT1/2", M5=M5×0.8P, M6=M6×1.0P
Stem O.D	04=4㎜, 06=6㎜, 08=8㎜, 10=10㎜, 12=12㎜
Description	Metric Size : M
Body Color	• Brass : BR(Natural) • 크롬도금 : CR

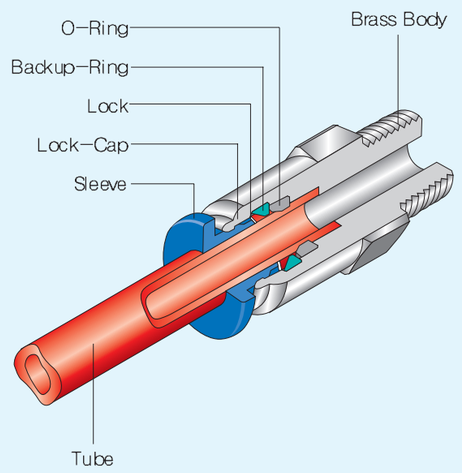
Usages

- Main blocks are used for assembly type manifolds such as collection or distribution.
- Main blocks are applied in many instructional devices.

Features

- Main blocks provide strong tubing and uniform flow rate to facilitate piping work.
- These products can be used for different applications as appropriate for users' needs through diverse assembly configurations.

Diagram



Specification

Pressure	Air
Vacuum	0 ~ 1.0Mpa (10kgf/cm²)
Temperature	-750mmHg (10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

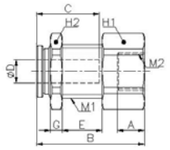
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- Please use DMT tools for assembly or disassembly of these products for convenient work.

⚠ Warning

- Use a supporting frame when assembling a number of main blocks or where a load is applied on the assembly. Otherwise, deformation or damage of product on the opposite side of assembly can result.

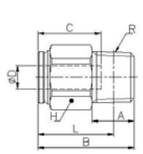
BAS Bulkhead Adapter Straight



(Unit:mm)

Parts No.	Tube O.D ø D	Metric Thread M1	Metric Thread M2	G	A	B	C	E	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BBAS 04M0812M	4	M8X1.0	M12X1.0	4	7	25	13.5	5	17	14	2.5	100
BBAS 06M0814M	6	M8X1.0	M14X1.0	4	7	25	15.5	6	17	17	4	50
BBAS 06M1214M		M12X1.0			7.5	25						50
BBAS 08M1216M	8	M12X1.0	M16X1.0	5	7.5	27.5	16.5	6	19	19	6	50
BBAS 08M1416M		M14X1.0			8.5	27.5						50
BBAS 10M1220M	10	M12X1.0	M20X1.0	6	7.5	32.5	19.5	7	24	24	7	25
BBAS 10M1420M		M14X1.0			8.5	32.5						25
BBAS 12M1422M	12	M14X1.0	M22X1.0	6	8.5	34.5	21	7	24	24	8	20
BBAS 12M1822M		M18X1.0			8.5	34.5						20

MCS Male Connector for Sus



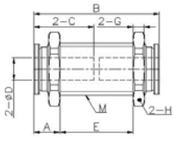
Metric Screw Type

(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	C	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMCS 04M5M	4	M5X0.8	5	20.5	16	13.5	10	2.5	100
BMCS 04M6M		M6X1.0	5	20.5	16		10	2.5	100
BMCS 0402M		PT1/8	8	18	14		10	2.5	100
BMCS 0404M		PT1/4	11	22	16		14	2.5	100
BMCS 0406M		PT3/8	12	23	17		17	2.5	100
BMCS 06M5M	6	M5X0.8	5	22.5	18	15.5	12	2.5	50
BMCS 06M6M		M6X1.0	5	22.5	18		12	2.5	50
BMCS 0602M		PT1/8	8	23	19		12	4	50
BMCS 0604M		PT1/4	11	26	20		14	4	50
BMCS 0606M		PT3/8	12	24	18		17	4	50
BMCS 0802M	8	PT1/8	8	26	22	16.5	14	6	50
BMCS 0804M		PT1/4	11	26	20		14	6	50
BMCS 0806M		PT3/8	12	26	19.5		17	6	50
BMCS 0807M		PT1/2	15	28	20		22	6	50
BMCS 1002M	10	PT1/8	8	30	26	19.5	17	5	25
BMCS 1004M		PT1/4	11	32	26.5		17	6	25
BMCS 1006M		PT3/8	12	29	22.5		17	8	25
BMCS 1007M		PT1/2	15	29	21		22	8	25
BMCS 1202M	12	PT1/8	8	31	27	21	21	5	20
BMCS 1204M		PT1/4	11	34	28		21	6	20
BMCS 1206M		PT3/8	12	31	24.5		21	8	20
BMCS 1207M		PT1/2	15	32	24		22	8	20

● Due to Hexagon type hole, Easy screwing available by the Wrench event hough in no much space for the Spanner

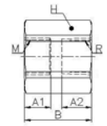
BKU BulKhead Union



(Unit:mm)

Parts No.	Tube O.D ø D	Metric Thread M	G	A	B	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BBKU 04M12M	4	M12X1.0	4	8.5	31.5	13.5	14	17	2.5	100
BBKU 06M14M	6	M14X1.0	4	8.5	37.5	15.5	20.5	17	4	50
BBKU 08M16M	8	M16X1.0	5	10.5	39	16.5	18	19	6	50
BBKU 10M20M	10	M20X1.0	6	11.5	42.5	19.5	19.5	24	7	25
BBKU 12M22M	12	M22X1.0	6	11	46	21	23.5	24	9	20

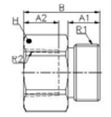
SK SocKet



(Unit:mm)

Parts No.	Metric Thread M	PT Thread R	A1	A2	B	Hex H	Qty (EA)
BSK M08M5M	M8X1.0	M5X0.8	7	5	15	12	100
BSK M12M6M	M12X1.0	M6X1.0	7.5	5	17	17	50
BSK M1402M	M14X1.0	PT 1/8	8.5	8	23	17	50
BSK M1804M	M18X1.0	PT 1/4	8.5	11	26	22	25

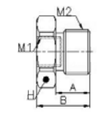
BUA BUsh A type



(Unit:mm)

Parts No.	PT Thread R1	PT Thread R2	A1	A2	B	Hex H	Qty (EA)
BBUA M08M5M	M8X1.0	M5X0.8	9	5	13	12	100
BBUA M12M6M	M12X1.0	M6X1.0	9	5	13	14	50
BBUA M1402M	M14X1.0	PT 1/8	10	11	24	22	50
BBUA M1804M	M18X1.0	PT 1/4	10	8	20	17	25
BBUA 02M5M	PT 1/8	M5X0.8	8	5	13	12	100
BBUA 04M6M	PT 1/4	M6X1.0	11	5	16	17	50
BBUA 0602M	PT 3/8	PT 1/8	12	8	20	19	50
BBUA 0704M	PT 1/2	PT 1/4	15	11	25	24	25

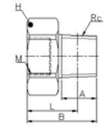
BUB BUsh B type



(Unit:mm)

Parts No.	Metric Thread M1	Metric Thread M2	A	B	Hex H	Qty (EA)
BBUB M08M12	M8X1.0	M12X1.0	9	14	17	100
BBUB M12M14	M12X1.0	M14X1.0	10	20	17	50
BBUB M14M18	M14X1.0	M18X1.0	10	15	22	50

BUC BUsh C type

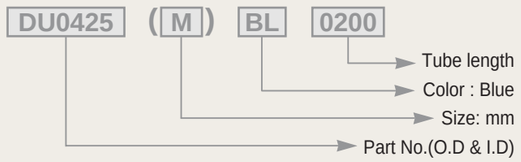


(Unit:mm)

Parts No.	PT Thread Rc	Metric Thread M	A	B	L	Hex H	Qty (EA)
BBUC 02M08M	PT 1/8	M8X1.0	8	17	13	12	100
BBUC 02M12M	PT 1/8	M12X1.0	8	19	15	17	100
BBUC 04M12M	PT 1/4		11	22	16	17	100
BBUC 06M12M	PT 3/8		12	23	16.5	17	50
BBUC 04M14M	PT 1/4	M14X1.0	11	23	17	17	1100
BBUC 06M14M	PT 3/8		12	24	17.5	17	50
BBUC 07M14M	PT 1/2		15	25	17	24	50
BBUC 06M18M	PT 3/8	M18X1.0	12	26	19.5	22	50
BBUC 07M18M	PT 1/2		15	30	22	24	50

POLYURETHANE TUBES

ORDER INFORMATION



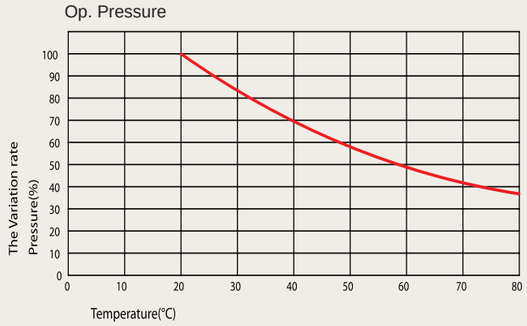
Usages

- In general, polyurethane tubes are used for industrial robots and pneumatic tubing.
- These tube products can be applied to diverse applications based on user's requirements..

Features

- Better flexibility than nylon tubes, then excellent workability.
- Excellent flexibility even at low temperatures.
- Good wear resistance, climate resistance and bending fatigue resistance.
- No static accumulation and excellent dimensional stability.

Operating pressure graph



Colors

Code	Color	3㎜	4㎜	6㎜	8㎜	10㎜	12㎜
BL	Blue	○	○	○	○	○	○
YE	Yellow	○	○	○	○	○	○
WT	White	○	○	○	○	○	○
NA	Natural	○	○	○	○	○	○
BK	BlacK	○	○	○	○	○	○
RE	Red	○	○	○	○	○	○
GR	Gray	○	○	○	○	○	○
GN	Green	○	○	○	○	○	○

※ Colors may be used by usage or by fluid medium.

Max Operating Pressure & Temperature

Category	3㎜, 4㎜, 6㎜, 8㎜, 10㎜, 12㎜
Material	Polyurethane
Operating Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum Pressure	−750mmHg (10Torr)
Operating Temperature	−15℃ ~ 60℃
Fluid Medium	Air, Water(No other gases or liquids)

※ Max op pressure can vary by operating temperature.

Safety Instruction

- Do not use tube beyond its the minimum bending radius.
- Cut tube sufficient length in consideration of future length adjustment possibility.
- Ensure tube is cut squarely with fitting surface. Also, avoid oblong cross section area of tube when cutting.

Warning

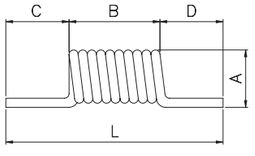
- Do not use product other than for air. Gas decomposition can result in tube cracking or splitting, thus leading to gas leak.
- Do not store or install this product close to a heating device. Tube heating can result in blow up.
- Make sure the tube is not damaged by sharp tools or objects. It can result in tube rupture.
- Make sure no excessive twisting, bending or twirling of tube occurs. It can result in tube rupture or slippage.
- Do not use where sparks occur.

DU PolyUrethane

(Unit:mm)

Parts No.	Tube O.D	Tube I.D	Wall	Reel Length (m)
DU 0320M	3	2	0.5	200
DU 0420M	4	2	1	200
DU 0425M	4	2.5	0.75	200
DU 0640M	6	4	1	100
DU 0850M	8	5	1.5	100
DU 0855M	8	5.5	1.25	100
DU 0860M	8	6	1	100
DU 1065M	10	6.5	1.75	100
DU 1070M	10	7	1.5	100
DU 1075M	10	7.5	1.25	100
DU 1280M	12	8	2	100
DU 1290M	12	9	1.5	100
DU 1611M	16	11	2.5	100
DU 1612M	16	12	2	100

DUC PolyUrethane-Coil tube



(Unit:mm)

Parts No.	Tube O.D	Tube I.D	Wall	A	B	C	D	L	Reel Length (m)
DUC 0420M15M	4	2	1	25.3	78	70	70	218	1.5
DUC 0420M30M				25.3	167	70	70	307	3
DUC 0420M45M				25.3	257	70	70	397	4.5
DUC 0640M15M	6	4	1	42	150	80	80	310	3
DUC 0640M30M				42	228	80	80	388	4.5
DUC 0640M45M				42	69	80	80	229	1.5
DUC 0850M35M	8	5	1.5	50	200	90	90	380	3.5
DUC 0850M50M				50	291	90	90	471	5
DUC 0850M75M				50	443	90	90	623	7.5
DUC 0850M100M				50	594	90	90	774	10
DUC 1065M35M	10	6.5	2.25	62.7	199	100	100	399	3.5
DUC 1065M50M				62.7	290	100	100	490	5
DUC 1065M75M				62.7	441	100	100	641	7.5
DUC 1065M100M				62.7	592	100	100	792	10
DUC 1280M35M	12	8	2	84.5	174	100	100	374	3.5
DUC 1280M50M				84.5	253	100	100	453	5
DUC 1280M75M				84.5	385	100	100	585	7.5
DUC 1280M100M				84.5	517	100	100	717	10

POLYETHYLENE TUBES

ORDER INFORMATION

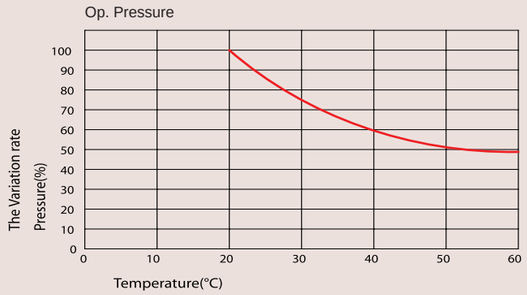
DPE 0425 (M) BL 0200

- 0200 → Tube length
- BL → Color : Blue
- M → Size: mm
- 0425 → Part No.(O.D & I.D)

Usages

- In general, polyethylene tubes are used for food industry. Coiled tube is suitable for air tubing and air driver tubing.
- These tube products enable tubing in confined spaces such as within a device driving mechanism.

Operating pressure graph



Features

- Excellent durability and flexibility.
- Diverse tube colors enable different colors to be used for different uses. Also, same color may be used for same type of devices.

Colors

Code	Color	4mm	6mm	8mm	10mm	12mm
BL	Blue	○	○	○	○	○
YE	Yellow	○	○	○	○	○
WT	White	○	○	○	○	○
NA	Natual	○	○	○	○	○
BK	Black	○	○	○	○	○
RE	Red	○	○	○	○	○
GR	Gray	○	○	○	○	○
GN	Green	○	○	○	○	○

※ Colors may be used by usage or by fluid medium.

Safety Instruction

- Use the tube in consideration of the minimum bending radius.
- Cut tube sufficient length in consideration of future length adjustment possibility.
- Ensure tube is cut squarely with fitting surface. Also, avoid oblong cross section area of tube when cutting.

Warning

- Do not use product other than for air. Gas decomposition can result in tube cracking or splitting, thus leading to gas leak.
- Do not store or install this product close to a heating device. Tube heating can result in blow up.
- Make sure the tube is not damaged by sharp tools or objects. It can result in tube rupture.
- Make sure no excessive twisting, bending or twirling of tube occurs. It can result in tube rupture or slippage.
- Do not use where sparks occur.

Max Operating Pressure & Temperature

Category	4mm, 6mm, 8mm, 10mm, 12mm
Material	Polyethylene
Operating Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum Pressure	−750mmHg (10Torr)
Operating Temperature	−15℃ ~ 60℃
Fluid Medium	Air, Water(No other gases or liquids)

※ Max op pressure can vary by operating temperature.

DPE PolyEthylene

(Unit:mm)

Parts No.	Tube O.D	Tube I.D	Wall	Reel Length (m)
DPE 0425M	4	2.5	0.75	500
DPE 0535M	5	3.5	0.75	400
DPE 0640M	6	4	1	300
DPE 0860M	8	6	1	200
DPE 1070M	10	7	1.5	150
DPE 1290M	12	9	1.5	100

NYLON TUBES

ORDER INFORMATION

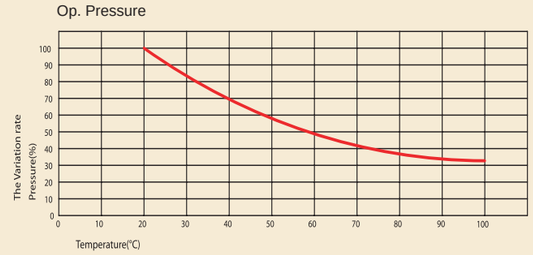
DN0425 (M) BL 0200

- 0200 → Tube length
- BL → Color : Blue
- M → Size: mm
- 0425 → Part No.(O.D & I.D)

Usages

- Widely used for pneumatic tool tubing.
- Used for chemical plant pneumatic piping, medical industry and food industry.

Operating pressure graph



Features

- Excellent wear resistance, climate resistance and bending fatigue resistance, hence longer useful life.
- Excellent pressure resistance, vibration resistance and heat resistance.
- Light and flexible to facilitate tubing work.
- Food originated material use allows these tubes to be used for medical devices and food handling devices.

Colors

Code	Color	3mm	4mm	6mm	8mm	10mm	12mm
BL	Blue	○	○	○	○	○	○
YE	Yellow	○	○	○	○	○	○
WT	White	○	○	○	○	○	○
NA	Natual	○	○	○	○	○	○
BK	Black	○	○	○	○	○	○
RE	Red	○	○	○	○	○	○
GR	Gray	○	○	○	○	○	○
GN	Green	○	○	○	○	○	○

※ Colors may be used by usage or by fluid medium.

Safety Instruction

- Do not bend the tube beyond its minimum bending radius.
- Cut tube sufficient length in consideration of future length adjustment possibility.
- Ensure tube is cut squarely with fitting surface. Also, avoid oblong cross section area of tube when cutting.

Warning

- Do not use product other than for air. Gas decomposition can result in tube cracking or splitting, thus leading to gas leak.
- Do not store or install this product close to a heating device. Tube heating can result in blow up.
- Make sure the tube is not damaged by sharp tools or objects. It can result in tube rupture.
- Make sure no excessive twisting, bending or twirling of tube occurs. It can result in tube rupture or slippage.
- Do not use where sparks occur.

Max Operating Pressure & Temperature

Category	3mm, 4mm, 6mm, 8mm, 10mm, 12mm
Material	Nylon
Operating Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum Pressure	−750mmHg (10Torr)
Operating Temperature	−15℃ ~ 60℃
Fluid Medium	Air(No other gases or liquids)

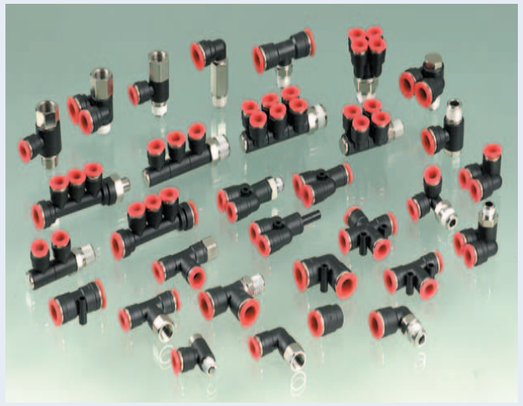
※ Max op pressure can vary by operating temperature.

DN Nylon

(Unit:mm)

Parts No.	Tube O.D	Tube I.D	Wall	Reel Length (m)
DN 0320M	3	2	0.5	200
DN 0420M	4	2	1	200
DN 0425M	4	2.5	0.75	200
DN 0640M	6	4	1	100
DN 0860M	8	6	1	100
DN 1080M	10	8	1	100
DN 1290M	12	9	1.5	100

PBT FITTINGS



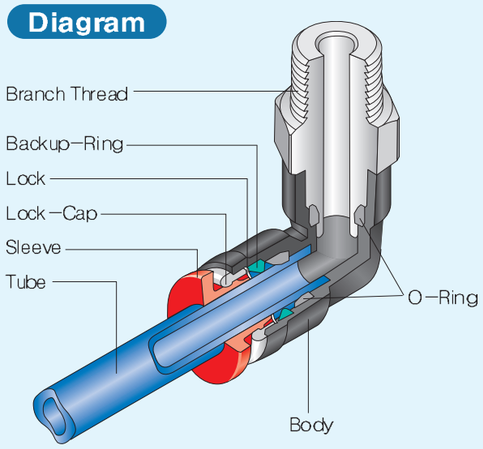
Usages

- One-touch fittings for pneumatic piping
- Each product comes with diverse functions and dimensions so that they are widely applicable to all piping situations.

Features

- These one-touch fittings enable easy and safe connection, separation and repair of pneumatic piping.
- Oblong sleeves facilitate attachment and detachment of tubes even in confined spaces.
- Nickel surface plating presents excellent anti-corrosion performance.
- In case of fittings where PBT and Base are integrated, the tube outlet angle can be varied as desired depending on the combination of the screw unit and the main body, thus enabling efficient piping.
- Base branch screw unit has Teflon seal so that it can be conveniently assembled without separate sealing.

Diagram



ORDER INFORMATION

B TTS 06 (04) 06 - (BK)

Tube O.D	01=5/32″, 03=3/16″, 04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Part Name	
Material	●Acetal : A ●Polybutylene Terephthalate(PBT) : B
Tube O.D Stem O.D	01=5/32″, 03=3/16″, 04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Thread Type	02=PT1/8″, 04=PT1/4″, 06=PT3/8″, 07=PT1/2″ U1=10-32UNF N2=NPT1/8″, N4=NPT1/4″, N6=NPT3/8″, N7=NPT1/2″
Stem O.D	01=5/32″, 04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Body Color	●Black : BK

Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

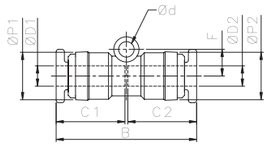
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- When assembling a tube to a fitting, make sure the tube is fully inserted into a fitting as shown in the diagram. Also, do not bend tube for assembly. Abnormal assembly can cause air leak or tube slippage.

⚠ Warning

- In case the fluid used is water, please verify product specification for water before using products.

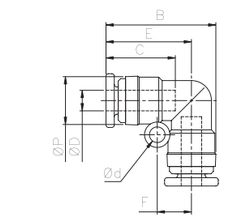
UC Union Connector



(Unit:mm)

Parts No.	Tube O.D ØD1	Tube O.D ØD2	ØP1	ØP2	C1	C2	B	F	Ød	Orifice Dia. (Ømm)	Qty (EA)
BUC 0101	5/32	5/32	10	10	14	14	25	14	3.2	2	100
BUC 0301	3/16	5/32	12	10	16	14	25	16	3.2	3	50
BUC 0303		3/16	12	12	16	16	33			4	100
BUC 0401	1/4	5/32	12	10	16	14	25	16	3.2	3	50
BUC 0403		3/16	12	10	16	16	33			4	50
BUC 0404		1/4	12	12	16	16	33			4	50
BUC 0504	5/16	1/4	14	12	17.5	16	27	18	4.2	5	50
BUC 0505		5/16	14	14	17.5	17.5	35			6	50
BUC 0605	3/8	5/16	17	14	20	17.5	38	21	4.2	6	25
BUC 0606		3/8	17	17	20	20	41			7	25
BUC 0706	1/2	3/8	22	17	22	20	43	23	4.2	8	20
BUC 0707		1/2	22	22	22	22	44			8	20

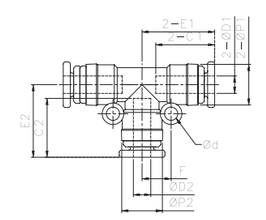
EU Elbow Union



(Unit:mm)

Parts No.	Tube O.D ØD	ØP	C	E	B	F	Ød	Orifice Dia. (Ømm)	Qty (EA)
BEU 0101	5/32	10	14	17	22	7	3.2	2	100
BEU 0303	3/16	12	16	20	26	8	3.2	4	50
BEU 0404	1/4	12	16	20	26	8	3.2	4	50
BEU 0505	5/16	14	17	23	30	9.5	4.2	6	50
BEU 0606	3/8	17.5	20	27	36	11	4.2	7	25
BEU 0707	1/2	21.5	22	30	42	13	4.2	8	20

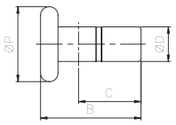
TU Tee Union



(Unit:mm)

Parts No.	Tube O.D ØD1	Tube O.D ØD2	ØP1	ØP2	C1	C2	E1	E2	F	Ød	Orifice Dia. (Ømm)	Qty (EA)
BTU 0101	5/32	5/32	10	10	14	14	17	17	7	3.2	2	100
BTU 0303	3/16	3/16	12	12	16	16	20	20	8	3.2	4	50
BTU 0401	1/4	5/32	12	10	16	16	20	17	8	3.2	4	50
BTU 0404		1/4	12	12	16	16	20	20			4	50
BTU 0504	5/16	1/4	14	12	17	16	23	20	9.5	4.2	4	50
BTU 0505		5/16	14	14	17	17	23	23			6	50
BTU 0605	3/8	5/16	17.5	14	20	17	27	23	11	4.2	6	25
BTU 0606		3/8	17.5	17.5	20	20	27	27			8	25
BTU 0706	1/2	3/8	21.5	17.5	22	20	31	27	13	4.2	7	20
BTU 0707		1/2	21.5	21.5	22	22	31	31			8	20

PL PLug



(Unit:mm)

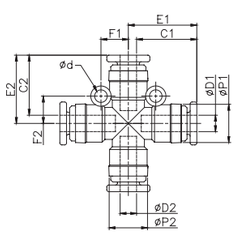
Parts No.	Stem O.D Ø D	C	B	Ø P	Qty (EA)
BPL 01	5/32	13.5	19.5	12.5	100
BPL 03	3/16	16.5	22	15	100
BPL 04	1/4	16.5	22	15	100
BPL 05	5/16	17	23	17	100
BPL 06	3/8	19.5	26.5	19	50
BPL 07	1/2	23	30	21	50

SA Stem Adapter

(Unit:mm)

Parts No.	Stem O.D Ø D	NPT Thread Rc	A	B	L	C	Hex H	Qty (EA)
BSA 01U1	5/32	10-32UNF	5	32	10.5	14.5	12	100
BSA 01N2		NPT1/8	10	33	14.5	13.5	14	100
BSA 01N4		NPT1/4	14	36.5	16	13.5	17	100
BSA 03U1	3/16	10-32UNF	5	34	12.5	16.5	12	50
BSA 03N2		NPT1/8	10	34	12.5	16.5	14	50
BSA 03N4		NPT1/4	14	38	15	16.5	17	50
BSA 04U1	1/4	10-32UNF	5	34	12.5	16.5	12	50
BSA 04N2		NPT1/8	10	34	12.5	16.5	14	50
BSA 04N4		NPT1/4	14	38	15	16.5	17	50
BSA 04N6		NPT3/8	14	38	15	17	19	50
BSA 05N2	5/16	NPT1/8	10	34.5	10.5	17	17	50
BSA 05N4		NPT1/4	14	39.5	15	17	17	50
BSA 05N6		NPT3/8	14	39.5	15	17	19	50
BSA 06N4	3/8	NPT1/4	14	42.5	16	19.5	17	25
BSA 06N6		NPT3/8	14	43	16.5	19.5	19	25
BSA 06N7		NPT1/2	19	51	18.5	23	24	25
BSA 07N4	1/2	NPT1/4	14	46	16.5	23	24	20
BSA 07N6		NPT3/8	14	46	16.5	23	24	20
BSA 07N7		NPT1/2	19	51	18.5	23	24	20

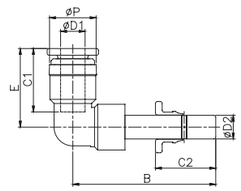
CRS CRosS



(Unit:mm)

Parts No.	Tube O.D Ø D1	Tube O.D Ø D2	Ø P1	ØP2	C1	C2	E1	E2	F1	F2	Ø d	Orifice Dia. (Ømm)	Qty (EA)
BCRS 0101	5/32	5/32	10	10	14	14	17	17	7	7	3.2	2	100
BCRS 0303	3/16	3/16	12	12	16	16	20	20	8	8	3.2	4	50
BCRS 0404	1/4	1/4	12	12	16	16	20	20	8	8	3.2	4	50
BCRS 0504	5/16	1/4	14	12	17	16	23	20	9.5	8	4.2	6	50
BCRS 0505		5/16	14	14	17	17	23	23	9.5	9.5	4.2	6	50
BCRS 0605	3/8	5/16	17.5	14	20	17	27	23	11	9.5	4.2	7	25
BCRS 0606		3/8	17.5	17.5	20	20	27	27	11	11	4.2	7	25
BCRS 0706	1/2	3/8	21.5	17.5	22	20	31	27	13	11	4.2	8	20
BCRS 0707		1/2	21.5	21.5	22	22	31	31	13	13	4.2	8	20

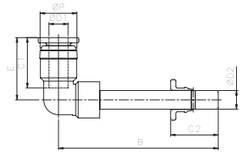
TEU Tube Elbow Union



(Unit:mm)

Parts No.	Tube O.D Ø D1	Stem O.D Ø D2	B	Ø P	C1	C2	E	Orifice Dia. (Ømm)	Qty (EA)
BTEU 0101	5/32	5/32	32.5	10	14	14	17	2	100
BTEU 0103		3/16	34.5	10	14	14	17	2	100
BTEU 0104		1/4	36.5	10	14	15.5	17	2	100
BTEU 0303	3/16	3/16	36.5	12	16	14	20	4	50
BTEU 0304		1/4	36.5	12	16	15.5	20	4	50
BTEU 0404	1/4	1/4	36.5	12	16	15.5	20	4	50
BTEU 0405		5/16	36.5	12	16	17	20	4	50
BTEU 0505	5/16	5/16	40	14	17	17	23	6	50
BTEU 0506		3/8	40.5	14	17	20	23	6	25
BTEU 0606	3/8	3/8	45.5	17.5	20	20	27	7	25
BTEU 0607		1/2	45.5	21.5	20	21.5	27	7	20
BTEU 0707	1/2	1/2	51.5	21.5	22	21.5	31	8	20

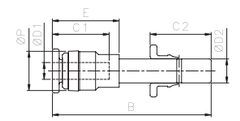
TEU-L Tube Elbow Union-Long



(Unit:mm)

Parts No.	Tube O.D Ø D1	Stem O.D Ø D2	B	Ø P	C1	C2	E	Orifice Dia. (Ømm)	Qty (EA)
BTEU 0101L	5/32	5/32	43	10	14	14	17	2	100
BTEU 0303L	3/16	3/16	54	12	16	16	20	4	50
BTEU 0404L	1/4	1/4	57	12	16	16	20	4	50
BTEU 0505L	5/16	5/16	63	14	17	17	23	6	50
BTEU 0606L	3/8	3/8	73	17.5	20	20	27	7	25
BTEU 0707L	1/2	1/2	80	21.5	22	22	32	8	20

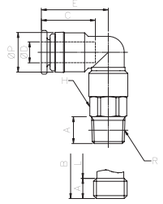
RD ReDucer



(Unit:mm)

Parts No.	Tube O.D Ø D1	Stem O.D Ø D2	B	E	Ø P	C1	C2	Orifice Dia. (Ømm)	Qty (EA)
BRD 0104	5/32	1/4	39	16.7	10	14	15.5	2	100
BRD 0105		5/16	41	16.7	10	14	17	2	100
BRD 0405	1/4	5/16	43	18.5	12	16	17	4	50
BRD 0406		3/8	45	18.5	12	16	20	4	50
BRD 0407		1/2	47	18.5	12	16	21.5	4	50
BRD 0506	5/16	3/8	48	21	14	17	20	6	50
BRD 0507		1/2	49	20	14	17	21.5	6	50
BRD 0607	3/8	1/2	52	22.5	17.5	21.5	21.5	7	50

EUB Elbow Union Branch



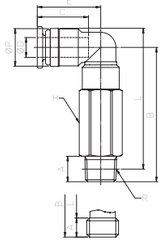
Metric Screw Type

(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	E	Hex H	Orifice Dia. (ø mm)	Qty (EA)
BEUB 01M5	5/32	M5X0.8	4	23	24	10	14	17	12	2.5	100
BEUB 01M6		M6X1.0	4	23	24				12	2.5	100
BEUB 0102		PT1/8	8	24.5	25.5				12	2.5	100
BEUB 0104		PT1/4	11	27.5	26.5				14	2.5	100
BEUB 0106		PT3/8	12	29.5	28				17	2.5	100
BEUB 03M5	3/16	M5X0.8	4	25	27	12	16	19	14	2.5	50
BEUB 03M6		M6X1.0	4	25	27				14	2.5	50
BEUB 0302		PT1/8	8	26.5	28.5				14	4	50
BEUB 0304		PT1/4	11	29.5	29.5				14	4	50
BEUB 0306		PT3/8	12	31.5	31				17	4	50
BEUB 04M5	1/4	M5X0.8	4	25	27	12	16	19	14	4	50
BEUB 04M6		M6X1.0	4	25	27				14	4	50
BEUB 0402		PT1/8	8	26.5	28.5				14	4	50
BEUB 0404		PT1/4	11	29.5	29.5				4	4	50
BEUB 0406		PT3/8	12	31.5	31				17	4	50
BEUB 0407		PT1/2	15	36	35				22	4	50
BEUB 0502	5/16	PT1/8	8	28.5	31.5	14	17	22	17	6	50
BEUB 0504		PT1/4	11	31.5	32.5				17	6	50
BEUB 0506		PT3/8	12	33	33.5				17	6	50
BEUB 0507		PT1/2	15	36	35				22	6	50
BEUB 0602	3/8	PT1/8	8	33.5	38.5	17.5	20	26	17	7	25
BEUB 0604		PT1/4	11	35	37.5				17	7	25
BEUB 0606		PT3/8	12	36.5	39				17	7	25
BEUB 0607		PT1/2	15	39.5	39.5				22	7	25
BEUB 0702	1/2	PT1/8	8	35.5	37.5	21.5	22	28	22	7	20
BEUB 0704		PT1/4	11	38.5	38.5				22	7.5	20
BEUB 0706		PT3/8	12	39.5	39				22	9	20
BEUB 0707		PT1/2	15	42.5	40				22	9	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	ø P	C	E	Hex H	Orifice Dia. (ø mm)	Qty (EA)
BEUB 01U1	5/32	10-32UNF	5	22.5	24	10	14	17	12	2.5	100
BEUB 01N2		NPT1/8	7	24	26.5				12	2.5	100
BEUB 01N4		NPT1/4	10.5	27.5	28.5				14	2.5	100
BEUB 01N6		NPT3/8	10.5	27.5	28				17	2.5	100
BEUB 03U1	3/16	10-32UNF	5	22.5	24	12	16	19	12	2.5	50
BEUB 03N2		NPT1/8	7	24	26.5				12	4	50
BEUB 03N4		NPT1/4	10.5	27.5	28.5				14	4	50
BEUB 03N6		NPT3/8	10.5	27.5	28				17	4	50
BEUB 04U1	1/4	10-32UNF	5	25.5	28.5	12	16	19	12	4	50
BEUB 04N2		NPT1/8	7	27	30.5				12	2.5	50
BEUB 04N4		NPT1/4	10.5	30.5	32.5				14	4	50
BEUB 04N6		NPT3/8	10.5	30.5	31				17	4	50
BEUB 04N7		NPT1/2	14	34.5	37				22	4	50
BEUB 05N2	5/16	NPT1/8	7	27.5	32	14	17	22	12	6	50
BEUB 05N4		NPT1/4	10.5	31	34				14	6	50
BEUB 05N6		NPT3/8	10.5	31	33.5				17	6	50
BEUB 05N7		NPT1/2	14	34.5	37				22	6	50
BEUB 06N2	3/8	NPT1/8	7	28.5	34.5	17.5	20	26	12	7	25
BEUB 06N4		NPT1/4	10.5	32	36.5				14	7	25
BEUB 06N6		NPT3/8	10.5	32	36				7	7	25
BEUB 06N7		NPT1/2	14	35.5	39.5				22	7	25
BEUB 07N4	1/2	NPT1/4	10.5	33.5	39.5	21.5	22	28	14	7.5	20
BEUB 07N6		NPT3/8	10.5	33.5	39				17	9	20
BEUB 07N7		NPT1/2	14	37	42.5				22	9	20

ELB Elbow union Long Branch



Metric Screw Type

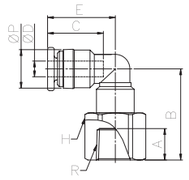
(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	E	Hex H	Orifice Dia. (ø mm)	Qty (EA)
BELB 01M5	5/32	M5X0.8	4	31	32	10	14	17	12	2.5	100
BELB 01M6		M6X1.0	4	31	32				12	2.5	100
BELB 0102		PT1/8	8	36	37				12	2.5	100
BELB 0104		PT1/4	11	39	38				14	2.5	100
BELB 0106		PT3/8	12	40.5	39				17	2.5	100
BELB 03M5	3/16	M5X0.8	4	35.5	37.5	12	16	19	12	2.5	50
BELB 03M6		M6X1.0	4	35.5	37.5				12	2.5	50
BELB 0302		PT1/8	8	38	40				12	4	50
BELB 0304		PT1/4	11	42	42				14	4	50
BELB 0306		PT3/8	12	44.5	44				17	4	50
BELB 04M5	1/4	M5X0.8	4	35.5	37.5	12	16	19	2	2.5	50
BELB 04M6		M6X1.0	4	35.5	37.5				12	2.5	50
BELB 0402		PT1/8	8	38	40				12	4	50
BELB 0404		PT1/4	11	42	42				14	4	50
BELB 0406		PT3/8	12	44.5	44				17	4	50
BELB 0502	5/16	PT1/8	8	42.5	45.5	14	17	22	12	6	50
BELB 0504		PT1/4	11	46.5	47.5				14	6	50
BELB 0506		PT3/8	12	48	48.5				17	6	50
BELB 0507		PT1/2	16	52.5	51.5				22	6	50
BELB 0602	3/8	PT1/8	8	50.5	55.5	17	20	26	12	7	25
BELB 0604		PT1/4	11	53.5	56.5				14	7	25
BELB 0606		PT3/8	12	55	57.5				17	7	25
BELB 0607		PT1/2	16	58.5	59.5				22	7	25
BELB 0702	1/2	PT1/8	8	56	63	21.5	22	28	12	7	20
BELB 0704		PT1/4	11	59	64				14	7.5	20
BELB 0706		PT3/8	12	60.5	65				17	9	20
BELB 0707		PT1/2	16	64	67				22	9	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	ø P	C	E	Hex H	Orifice Dia. (ø mm)	Qty (EA)
BELB 01U1	5/32	10-32UNF	5	30	32	10	12	17	12	2.5	100
BELB 01N2		NPT1/8	7	35	37				12	2.5	100
BELB 01N4		NPT1/4	10.5	38.5	38				14	2.5	100
BELB 01N6		NPT3/8	10.5	38.5	39				17	2.5	100
BELB 03U1	3/16	10-32UNF	5	34.5	37.5	12	16	19	12	2.5	50
BELB 03N2		NPT1/8	7	37	40				12	2.5	50
BELB 03N4		NPT1/4	10.5	41.5	42				14	4	50
BELB 03N6		NPT3/8	10.5	41.5	44				17	4	50
BELB 04U1	1/4	10-32UNF	5	34.5	37.5	12	16	19	14	2.5	50
BELB 04N2		NPT1/8	7	37	40				14	2.5	50
BELB 04N4		NPT1/4	10.5	41.5	42				14	4	50
BELB 04N6		NPT3/8	10.5	41.5	44				17	4	50
BELB 05N2	5/16	NPT1/8	7	43.5	45.5	14	17	22	17	6	50
BELB 05N4		NPT1/4	10.5	47	47.5				17	6	50
BELB 05N6		NPT3/8	10.5	4935	48.5				17	6	50
BELB 05N7		NPT1/2	14	53.5	51.5				22	6	50
BELB 06N2	3/8	NPT1/8	7	51.5	55.5	17.5	20	26	17	7	25
BELB 06N4		NPT1/4	10.5	52.5	56.5				17	7	25
BELB 06N6		NPT3/8	10.5	57	57.5				17	7	25
BELB 06N7		NPT1/2	14	59.5	59.5				22	7	25
BELB 07N4	1/2	NPT1/4	10.5	60	64	21.5	22	28	22	7.5	20
BELB 07N6		NPT3/8	10.5	62	65				22	9	20
BELB 07N7		NPT1/2	14	65	67				22	9	20

● When more than two Elbow Union fit into the tube in same direction , They can fit in the steps style

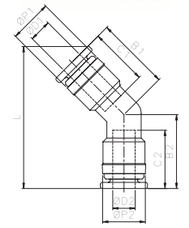
EUF Elbow Union Female



(Unit:mm)

Parts No.	Tube O.D ØD	NPT Thread R	A	B	ØP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BEUF 01U1	5/32	10-32UNF	5	18	10	14	14	10	2.5	100
BEUF 01N2		NPT1/8	6	23				14	2.5	100
BEUF 01N4		NPT1/4	9	26				17	2.5	100
BEUF 03U1	3/16	10-32UNF	5	18	12	16	19	12	2.5	50
BEUF 03N2		NPT1/8	6	25				14	2.5	50
BEUF 03N4		NPT1/4	9	28				17	2.5	50
BEUF 03N6		NPT3/8	12	29				22	2.5	50
BEUF 04U1	1/4	10-32UNF	5	18	12	16	19	12	2.5	50
BEUF 04N2		NPT1/8	6	25				14	2.5	50
BEUF 04N4		NPT1/4	9	28				17	2.5	50
BEUF 04N6		NPT3/8	12	29				22	2.5	50
BEUF 05N2	5/16	NPT1/8	9	27	14	17	22	14	5	50
BEUF 05N4		NPT1/4	12	30				17	5	50
BEUF 05N6		NPT3/8	13	31				22	5	50
BEUF 06N4	3/8	NPT1/4	12	33	17	20	26	17	7	25
BEUF 06N6		NPT3/8	13	34				22	7	25
BEUF 06N7		NPT1/2	16	37				24	7	25

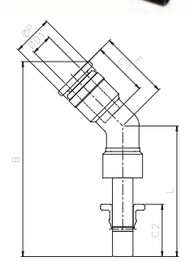
OC Offset Connector



(Unit:mm)

Parts No.	Tube O.D ØD1	Tube O.D ØD2	B1	B2	ØP1	ØP2	C1	C2	L	Orifice Dia. (Ømm)	Qty (EA)
BOC 0101	5/32	5/32	17.5	17.5	10	10	14	14	30	2	100
BOC 0301	3/16	5/32	20.5	17.5	12	10	16	14	31.5	2	100
BOC 0303		3/16	20.5	10.5	12	12	16	16	31.5	4	50
BOC 0401	1/4	5/32	20.5	17.5	12	10	16	14	29.5	2	100
BOC 0403		3/16	20.5	20.5	12	12	16	16	31.5	4	50
BOC 0404		1/4	20.5	20.5	12	12	16	16	31.5	4	50
BOC 0504	5/16	1/4	24	20.5	14	12	16	16	40	4	50
BOC 0505		5/16	24	24	14	14	17	17	42	6	50
BOC 0605	3/8	5/16	28	24	17.5	14	20	17	47	6	50
BOC 0606		3/8	28	28	17.5	17.5	20	20	50	7	25
BOC 0706	1/2	3/8	32	28	21.5	17.5	22	20	56.5	7	25
BOC 0707		1/2	32	32	21.5	21.5	22	22	58.5	8	20

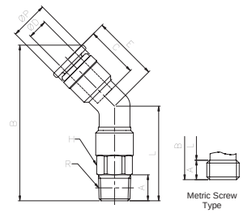
OCS Offset Connector Stem



(Unit:mm)

Parts No.	Tube O.D ØD1	Stem O.D ØD2	B	ØP	C1	C2	E	Orifice Dia. (Ømm)	Qty (EA)
BOCS 0101	5/32	5/32	58.5	10	14	14	17	2	100
BOCS 0103		3/16	60.5						100
BOCS 0104		1/4	62.5						100
BOCS 0303	3/16	3/16	68	12	16	16	17	2	50
BOCS 0304		1/4	68						50
BOCS 0404	1/4	1/4	68	12	16	16	20	4	50
BOCS 0405		5/16	68						50
BOCS 0505	5/16	5/16	76	14	17	17	23	6	50
BOCS 0506		3/8	84.5						50
BOCS 0606	3/8	3/8	89.5	17.5	20	20	27	7	25
BOCS 0607		1/2	98						25
BOCS 0707	1/2	1/2	104	21.5	22	22	21	8	20

OCB Offset Connector Branch

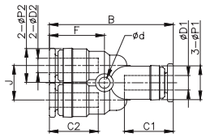


(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	A	B	L	ØP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BOCB 01M5	5/32	M5X0.8	5	33.5	31.5	10	14	17	12	2.5	100
BOCB 0102		PT1/8	8	38	34				12	2.5	100
BOCB 0104		PT1/4	11	41	35				14	2.5	100
BOCB 0106		PT3/8	12	42	35.5				17	2.5	100
BOCB 03M5	3/16	M5X0.8	5	38	31.5	12	16	19	12	2.5	50
BOCB 0302		PT1/8	8	42.5	38.5				12	4	50
BOCB 0304		PT1/4	11	45.5	39.5				14	4	50
BOCB 0306		PT3/8	12	46.5	40				17	4	50
BOCB 04M5	1/4	M5X0.8	5	38	31.5	12	16	19	12	2.5	50
BOCB 0402		PT1/8	8	42.5	38.5				12	4	50
BOCB 0404		PT1/4	11	45.5	39.5				14	4	50
BOCB 0406		PT3/8	12	46.5	40				17	4	50
BOCB 0407		PT1/2	15	49.5	41.5				22	4	50
BOCB 0502	5/16	PT1/8	8	46	42	14	17	22	17	6	50
BOCB 0504		PT1/4	11	49	43				17	6	50
BOCB 0506		PT3/8	12	50	43.5				17	6	50
BOCB 0507		PT1/2	15	53	45				22	6	50
BOCB 0602	3/8	PT1/8	8	53	49	17.5	20	26	17	7	25
BOCB 0604		PT1/4	11	56	50				17	7	25
BOCB 0606		PT3/8	12	57	50.5				17	7	25
BOCB 0607		PT1/2	15	60	52				22	7	25
BOCB 0702	1/2	PT1/8	8	66.5	62.5	21.5	22	28	22	7	20
BOCB 0704		PT1/4	11	69.5	63.5				22	7.5	20
BOCB 0706		PT3/8	12	70.5	64.5				22	9	20
BOCB 0707		PT1/2	15	73.5	65.5				22	9	20

Parts No.	Tube O.D ØD	NPT Thread R	A	B	L	ØP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BOCB 01U1	5/32	10-32UNF	5	33.5	31.5	10	14	17	12	2.5	100
BOCB 01N2		NPT1/8	7	39	34				12	2	100
BOCB 01N4		NPT1/4	10.5	41.5	35				14	2	100
BOCB 01N6		NPT3/8	10.5	43.5	35.5				17	2	100
BOCB 03U1	3/16	10-32UNF	5	38	31.5	12	16	19	12	2.5	50
BOCB 03N2		NPT1/8	7	43.5	38.5				12	4	50
BOCB 03N4		NPT1/4	10.5	46	39.5				14	4	50
BOCB 03N6		NPT3/8	10.5	48	40				17	4	50
BOCB 04U1	1/4	10-32UNF	5	38	31.5	12	16	19	12	2.5	50
BOCB 04N2		NPT1/8	7	43.5	38.5				12	4	50
BOCB 04N4		NPT1/4	10.5	46	39.5				14	4	50
BOCB 04N6		NPT3/8	10.5	48	40				17	4	50
BOCB 04N7		NPT1/2	14	51.5	41.5				22	4	50
BOCB 05N2	5/16	NPT1/8	7	47	42	14	17	22	12	6	50
BOCB 05N4		NPT1/4	10.5	49.5	43				14	6	50
BOCB 05N6		NPT3/8	10.5	51.5	43.5				17	6	50
BOCB 05N7		NPT1/2	14	54	45				22	6	50
BOCB 06N2	3/8	NPT1/8	7	54	49	17.5	20	26	12	7	25
BOCB 06N4		NPT1/4	10.5	56.5	50				14	7	25
BOCB 06N6		NPT3/8	10.5	58.5	50.5				17	7	25
BOCB 06N7		NPT1/2	14	61	52				22	7	25
BOCB 07N2	1/2	NPT1/8	7	67.5	62.5	21.5	22	28	12	8	20
BOCB 07N4		NPT1/4	10.5	70	63.5				14	8	20
BOCB 07N6		NPT3/8	10.5	72	63.5				17	8	20
BOCB 07N7		NPT1/2	14	74.5	65.5				22	8	20

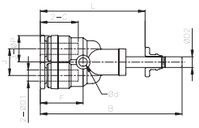
TD Two way Divider



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	B	ø P1	ø P2	C1	C2	ø d	F	J	Orifice Dia. (Ø mm)	Qty (EA)
BTD 0101	5/32	5/32	36	10	10	14	14	3.2	16	10	3	100
BTD 0301	3/16	5/32	37	14	10	16	14	3.2	16	10	3	100
BTD 0303		3/16	38	14	14	16	16	3.2	16	12	5	50
BTD 0401	1/4	5/32	37	14	10	14	14	3.2	16	10	3	100
BTD 0403		3/16	38	14	14	16	16	3.2	16	12	5	50
BTD 0404		1/4	38	14	14	16	16	3.2	16	12	5	50
BTD 0501	5/16	5/32	37	17.5	10	17	14	4.2	16	10	3	100
BTD 0504		1/4	40	17.5	14	17	16	4.2	16	12	5	50
BTD 0505		5/16	45	17.5	17.5	17	17	4.2	19	14	7	50
BTD 0604	3/8	1/4	40	21.5	14	20	16	4.2	16	12	5	50
BTD 0605		5/16	48	21.5	17.5	20	17	4.2	19	14	7	50
BTD 0606		3/8	49	21.5	21.5	20	20	4.2	21	17.5	7	25
BTD 0705	1/2	5/16	48	22	17.5	22	17	4.2	19	14	7	50
BTD 0706		3/8	52	22	21.5	22	20	4.2	21	17.5	7	25
BTD 0707		1/2	54	22	22	22	22	4.2	23	21.5	10	20

TDR Two way Divider Reducer

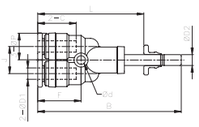


(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	L	ø P	C	ø d	J	F	Orifice Dia. (Ø mm)	Qty (EA)
BTDR 0104	5/32	1/4	55	47	10	15	3.2	10	16	4	100
BTDR 0405	1/4	5/16	60	50	12	16	3.2	12	16	6	50
BTDR 0506	5/16	3/8	69	60	14	18	4.2	14	19	7	50
BTDR 0607	3/8	1/2	75.5	66	17.5	21	4.2	17.5	21	8	25

● Different size between the Tube and the Stem

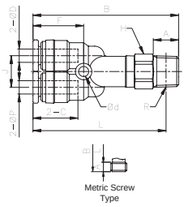
TDS Two way Divider Stem



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	L	ø P	C	ø d	J	F	Orifice Dia. (Ø mm)	Qty (EA)
BTDS 0101	5/32	5/32	52	45	10	14	3.2	10	16	2	100
BTDS 0104		1/4	54	47							100
BTDS 0303	3/16	3/16	57	49	12	16	3.2	12	16	4	50
BTDS 0404	1/4	1/4	57	49	12	16	3.2	12	16	4	50
BTDS 0405		5/16	58	50							50
BTDS 0505	5/16	5/16	64	54	14	17	4.2	14	19	6	50
BTDS 0506		3/8	66	56							50
BTDS 0606	3/8	3/8	70.5	60.5	17.5	20	4.2	17.5	21	7	25
BTDS 0607		1/2	72	62							25
BTDS 0707	1/2	1/2	77.5	67	22	22	4.2	21.5	23	8	20

TDB Two way Divider Branch

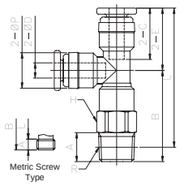


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	F	ø d	J	Hex H	Orifice Dia. (Ø mm)	Qty (EA)
BTDB 01M5	5/32	M5X0.8	4	43	39	10	14	16	3.2	10	10	2.5	100
BTDB 01M6		M6X1.0	4	43	39						10	2.5	100
BTDB 0102		PT1/8	8	45	41						10	2.5	100
BTDB 0104		PT1/4	11	48	41						14	2.5	100
BTDB 0106		PT3/8	12	50	43						17	2.5	100
BTDB 03M5	3/16	M5X0.8	4	46	42	12	16	16	3.2	12	12	2.5	50
BTDB 03M6		M6X1.0	4	46	42						12	2.5	50
BTDB 0302		PT1/8	8	46	43						12	4	50
BTDB 0304		PT1/4	11	50	44						14	4	50
BTDB 0306		PT3/8	12	52	46						17	4	50
BTDB 04M5	1/4	M5X0.8	4	46	42	12	16	16	3.2	12	12	2.5	50
BTDB 04M6		M6X1.0	4	46	42						12	2.5	50
BTDB 0402		PT1/8	8	46	43						12	4	50
BTDB 0404		PT1/4	11	50	44						14	4	50
BTDB 0406		PT3/8	12	52	46						17	4	50
BTDB 0502	5/16	PT1/8	8	53	49	14	17	19	4.2	14	14	6	50
BTDB 0504		PT1/4	11	56	50						14	6	50
BTDB 0506		PT3/8	12	57	51						17	6	50
BTDB 0507		PT1/2	15	61	53						22	6	50
BTDB 0602	3/8	PT1/8	8	59	55	17.5	20	21	4.2	17.5	17	7	25
BTDB 0604		PT1/4	11	61	55						17	7	25
BTDB 0606		PT3/8	12	62	56						17	7	25
BTDB 0607		PT1/2	15	66	58						22	7	25
BTDB 0702	1/2	PT1/8	8	62	58	21.5	22	23	4.2	21.5	22	7	20
BTDB 0704		PT1/4	11	65	59						22	7.5	20
BTDB 0706		PT3/8	12	66	60						22	9	20
BTDB 0707		PT1/2	15	70	62						22	9	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	ø P	C	F	ø d	J	Hex H	Orifice Dia. (Ø mm)	Qty (EA)
BTDB 01U1	5/32	10-32UNF	5	40.5	39	10	14	16	3.2	10	10	2.5	100
BTDB 01N2		NPT1/8	7	42	37.5						10	4	100
BTDB 01N4		NPT1/4	10.5	45.5	39						14	4	100
BTDB 03U1	3/16	10-32UNF	5	40.5	39	12	16	16	3.2	12	12	2.5	50
BTDB 03N2		NPT1/8	7	42	37.5						12	4	50
BTDB 03N4		NPT1/4	10.5	45.5	39						14	4	50
BTDB 03N6		NPT3/8	10.5	45.5	40						17	4	50
BTDB 04U1	1/4	10-32UNF	5	46	41	12	16	16	3.2	12	12	2.5	50
BTDB 04N2		NPT1/8	7	47.5	43.5						12	4	50
BTDB 04N4		NPT1/4	10.5	51	45						14	4	50
BTDB 04N6		NPT3/8	10.5	51	45						17	4	50
BTDB 05N2	5/16	NPT1/8	7	52	48	14	17	19	4.2	14	14	6	50
BTDB 05N4		NPT1/4	10.5	55.5	51						14	6	50
BTDB 05N6		NPT3/8	10.5	55.5	49.5						17	6	50
BTDB 05N7		NPT1/2	14	59	51						22	6	50
BTDB 06N2	3/8	NPT1/8	7	56	52	17.5	20	21	4.2	17.5	17	7	25
BTDB 06N4		NPT1/4	10.5	59.5	54						17	7	25
BTDB 06N6		NPT3/8	10.5	59.5	53.5						17	7	25
BTDB 06N7		NPT1/2	14	63	56						22	7	25
BTDB 07N4	1/2	NPT1/4	10.5	67	61.5	21.5	22	23	4.2	21.5	22	7.5	20
BTDB 07N6		NPT3/8	10.5	67	61						22	9	20
BTDB 07N7		NPT1/2	14	70.5	62.5						22	9	20

MRB Male Run swivel Branch

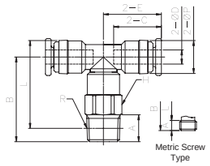


(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BMRB 01M5	5/32	M5X0.8	5	22	24	10	14	17	10	2.5	100
BMRB 01M6		M6X1.0	5	2	24				10	2.5	100
BMRB 0102		PT1/8	8	24	25.5				10	2.5	100
BMRB 0104		PT1/4	11	27	26				14	2.5	100
BMRB 0106		PT3/8	12	29	28				17	2.5	100
BMRB 04M5	1/4	M5X0.8	5	24	27	12	16	19	12	2.5	50
BMRB 04M6		M6X1.0	5	24	27				12	2.5	50
BMRB 0402		PT1/8	8	26	28.5				12	4	50
BMRB 0404		PT1/4	11	29	29				14	4	50
BMRB 0406		PT3/8	12	31	31				17	4	50
BMRB 0502	5/16	PT1/8	8	28.5	31.5	14	17	22	14	6	50
BMRB 0504		PT1/4	11	31.5	32.5				14	6	50
BMRB 0506		PT3/8	12	33	33.5				17	6	50
BMRB 0507		PT1/2	15	36	36				22	6	50
BMRB 0602	3/8	PT1/8	8	33.5	38	17.5	20	26	17	7	25
BMRB 0604		PT1/4	11	35	37.5				17	7	25
BMRB 0606		PT3/8	12	36.5	38.8				17	7	25
BMRB 0607		PT1/2	15	41	41				22	7	25
BMRB 0702	1/2	PT1/8	8	42.5	42.5	21.5	22	28	22	7	20
BMRB 0704		PT1/4	11	13.5	43.5				22	7.5	20
BMRB 0706		PT3/8	12	44	44				22	9	20
BMRB 0707		PT1/2	15	46	46				22	9	20

Parts No.	Tube O.D ⌀D	NPT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BMRB 01U1	5/32	10-32UNF	5.5	21.5	24	10	14	17	10	2.5	100
BMRB 01N2		NPT1/8	8	24	25.5				10	2.5	100
BMRB 01N4		NPT1/4	11	27	26				14	2.5	100
BMRB 01N6		NPT3/8	12	29	28				17	2.5	100
BMRB 03U1	3/16	10-32UNF	5.5	23.5	27	12	16	19	12	2.5	50
BMRB 03N2		NPT1/8	8	26	28.5				12	4	50
BMRB 03N4		NPT1/4	11	29	29				14	4	50
BMRB 03N6		NPT3/8	12	31	31				17	4	50
BMRB 04U1	1/4	10-32UNF	5.5	23.5	27	12	16	19	14	2.5	50
BMRB 04N2		NPT1/8	8	26	28.5				14	4	50
BMRB 04N4		NPT1/4	11	29	29				14	4	50
BMRB 04N6		NPT3/8	12	31	31				17	4	50
BMRB 04N7		NPT1/2	15	35	35				17	4	50
BMRB 05N2	5/16	NPT1/8	8	28.5	31.5	14	17	22	17	6	50
BMRB 05N4		NPT1/4	11	31.5	32.5				17	6	50
BMRB 05N6		NPT3/8	12	33	33.5				17	6	50
BMRB 05N7		NPT1/2	15	37	36				22	6	50
BMRB 06N2	3/8	NPT1/8	8	33.5	38	17.5	20	25	17	7	25
BMRB 06N4		NPT1/4	11	35	37.5				17	7	25
BMRB 06N6		NPT3/8	12	36.5	38.8				17	7	25
BMRB 06N7		NPT1/2	15	40.5	41				22	7	25
BMRB 07N2	1/2	NPT1/8	8	35.5	42.5	21.5	22	28	22	7	20
BMRB 07N4		NPT1/4	11	38.5	43.5				22	7.5	20
BMRB 07N6		NPT3/8	12	39.5	44				22	9	20
BMRB 07N7		NPT1/2	15	43.5	46				22	9	20

MTB Male Tee swivel Branch

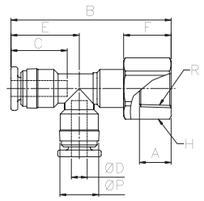


(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BMTB 01M5	5/32	M5X0.8	5	23	24	10	14	17	10	2.5	100
BMTB 01M6		M6X1.0	5	23	24				10	2.5	100
BMTB 0102		PT1/8	8	24	25.5				10	2.5	100
BMTB 0104		PT1/4	11	27	26				14	2.5	100
BMTB 0106		PT3/8	12	29	28				17	2.5	100
BMTB 04M5	1/4	M5X0.8	5	25	27	12	16	19	12	2.5	50
BMTB 04M6		M6X1.0	5	25	27				12	2.5	50
BMTB 0402		PT1/8	8	26	28.5				12	4	50
BMTB 0404		PT1/4	11	29	29				14	4	50
BMTB 0406		PT3/8	12	31	31				17	4	50
BMTB 0407		PT1/2	16	35	35				22	4	50
BMTB 0502	5/16	PT1/8	8	28.5	31.5	14	17	22	14	6	50
BMTB 0504		PT1/4	11	31.5	32.5				14	6	50
BMTB 0506		PT3/8	12	33	33.5				17	6	50
BMTB 0507		PT1/2	16	37	36				22	6	50
BMTB 0602	3/8	PT1/8	8	33.5	38	17.5	20	26	17	7	25
BMTB 0604		PT1/4	11	35	37.5				17	7	25
BMTB 0606		PT3/8	12	36.5	38.8				17	7	25
BMTB 0607		PT1/2	16	40.5	41				22	7	25
BMTB 0702	1/2	PT1/8	8	35.5	42.5	21.5	22	28	22	7	20
BMTB 0704		PT1/4	11	38.5	43.5				22	7.5	20
BMTB 0706		PT3/8	12	39.5	44				22	9	20
BMTB 0707		PT1/2	16	43.5	46				22	9	20

Parts No.	Tube O.D ⌀D	NPT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BMTB 01U1	5/32	10-32UNF	5	22	24	10	14	17	10	2.5	100
BMTB 01N2		NPT1/8	7	23	25.5				10	2.5	100
BMTB 01N4		NPT1/4	10.5	27.5	26				14	2.5	100
BMTB 01N6		NPT3/8	10.5	30.5	28				17	2.5	100
BMTB 03U1	3/16	10-32UNF	5	24	27	12	16	19	10	2.5	50
BMTB 03N2		NPT1/8	7	27	28.5				10	4	50
BMTB 03N4		NPT1/4	10.5	29.5	29				14	4	50
BMTB 03N6		NPT3/8	10.5	32.5	31				17	4	50
BMTB 04U1	1/4	10-32UNF	5	24	27	12	16	19	10	2.5	50
BMTB 04N2		NPT1/8	7	27	28.5				10	4	50
BMTB 04N4		NPT1/4	10.5	29.5	29				14	4	50
BMTB 04N6		NPT3/8	10.5	32.5	31				17	4	50
BMTB 04N7		NPT1/2	14	35	35				22	4	50
BMTB 05N2	5/16	NPT1/8	7	27.5	31.5	14	17	22	14	6	50
BMTB 05N4		NPT1/4	10.5	31	32.5				14	6	50
BMTB 05N6		NPT3/8	10.5	34.5	33.5				17	6	50
BMTB 05N7		NPT1/2	14	38	36				22	6	50
BMTB 06N2	3/8	NPT1/8	7	34.5	38	17.5	20	26	17	7	25
BMTB 06N4		NPT1/4	10.5	35.5	37.5				17	7	25
BMTB 06N6		NPT3/8	10.5	37	38.8				17	7	25
BMTB 06N7		NPT1/2	14	41.5	41				22	7	25
BMTB 07N2	1/2	NPT1/8	7	34.5	42.5	21.5	22	28	22	7	20
BMTB 07N4		NPT1/4	10.5	39	43.5				22	7.5	20
BMTB 07N6		NPT3/8	10.5	41	44				22	9	20
BMTB 07N7		NPT1/2	14	44.5	46				22	9	20

FRB Female Run swivel Branch

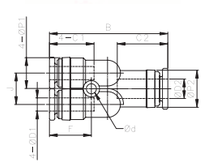


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	øP	C	E	F	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFRB 0102	5/32	PT1/8	8	40	10	14	17	12	14	2.5	100
BFRB 0104		PT1/4	11	43				15	17	2.5	100
BFRB 0106		PT3/8	12	44				16	22	2.5	100
BFRB 0402	1/4	PT1/8	8	45	12	16	19	12	14	2.5	50
BFRB 0404		PT1/4	11	48				15	17	2.5	50
BFRB 0406		PT3/8	12	49				16	22	2.5	50
BFRB 0502	5/16	PT1/8	8	49	14	17	22	12	14	5	50
BFRB 0504		PT1/4	11	52				15	17	5	50
BFRB 0506		PT3/8	12	53				16	22	5	50
BFRB 0507		PT1/2	15	56				19	24	5	50
BFRB 0602	3/8	PT1/8	8	56	17	20	26	15	17	7	25
BFRB 0604		PT1/4	11	59				15	17	7	25
BFRB 0606		PT3/8	12	60				16	22	7	25
BFRB 0607		PT1/2	15	63				19	24	7	25
BFRB 0704	1/2	PT1/4	11	59	17	20	26	15	17	7	20
BFRB 0706		PT3/8	12	60				16	22	7	20
BFRB 0707		PT1/2	15	63				19	24	7	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	øP	C	E	F	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFRB 01U1	5/32	10-32UNF	5	35	10	14	17	7	10	2.5	100
BFRB 01N2		NPT1/8	8	40				12	14	2.5	100
BFRB 01N4		NPT1/4	11	43				15	17	2.5	100
BFRB 03U1	3/16	10-32UNF	5	40	12	16	19	7	12	2.5	50
BFRB 03N2		NPT1/8	8	45				12	14	2.5	50
BFRB 03N4		NPT1/4	11	48				15	17	2.5	50
BFRB 03N6		NPT3/8	12	49				16	22	2.5	50
BFRB 04U1	1/4	10-32UNF	5	40	12	16	19	7	12	2.5	50
BFRB 04N2		NPT1/8	8	45				12	14	2.5	50
BFRB 04N4		NPT1/4	11	48				15	17	2.5	50
BFRB 04N6		NPT3/8	12	49				16	22	2.5	50
BFRB 05N2	5/16	NPT1/8	8	49	14	17	22	12	14	5	50
BFRB 05N4		NPT1/4	11	52				15	17	5	50
BFRB 05N6		NPT3/8	12	53				16	22	5	50
BFRB 05N7		NPT1/2	15	56				19	24	5	50
BFRB 06N2	3/8	NPT1/8	8	59	17	20	26	12	14	7	25
BFRB 06N4		NPT1/4	11	60				15	17	7	25
BFRB 06N6		NPT3/8	12	63				16	22	7	25
BFRB 06N7		NPT1/2	15	66				19	24	7	25
BFRB 07N4	1/2	NPT1/4	11	59	17	20	26	15	17	7	20
BFRB 07N6		NPT3/8	12	60				16	22	7	20
BFRB 07N7		NPT1/2	15	63				19	24	7	20

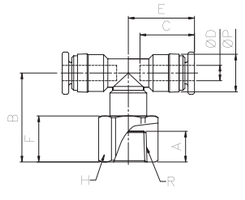
FU Four way Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	B	øP1	øP2	C1	C2	J	F	ød	Orifice Dia. (Ømm)	Qty (EA)
BFU 0104	5/32	1/4	37	12	10	14.2	16.1	20	13	3.2	3	50
BFU 0405	1/4	5/16	45	14	12	16.1	17.7	24	16	3.2	5	50

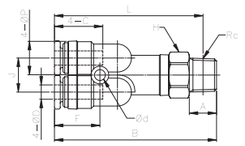
FTB Female Tee swivel Branch



(Unit:mm)

Parts No.	Tube O.D ø D	NPT Thread R	A	B	øP	C	E	F	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFTB 01U1	5/32	10-32UNF	5	18	10	14	17	7	10	2.5	100
BFTB 01N2		NPT1/8	9	23				12	14	2.5	100
BFTB 01N4		NPT1/4	12	2				15	17	2.5	100
BFTB 03U1	3/16	10-32UNF	5	20	12	16	19	7	12	2.5	50
BFTB 03N2		NPT1/8	9	25				12	14	2.5	50
BFTB 03N4		NPT1/4	12	28				15	17	2.5	50
BFTB 03N6		NPT3/8	13	29				16	22	2.5	50
BFTB 04U1	1/4	10-32UNF	5	20	14	17	22	7	12	2.5	50
BFTB 04N2		NPT1/8	9	25				12	14	2.5	50
BFTB 04N4		NPT1/4	12	28				15	17	2.5	50
BFTB 04N6		NPT3/8	13	29				16	22	2.5	50
BFTB 05N2	5/16	NPT1/8	9	27	14	17	22	12	14	5	50
BFTB 05N4		NPT1/4	12	30				15	17	5	50
BFTB 05N6		NPT3/8	13	31				16	22	5	50
BFTB 06N4	3/8	NPT1/4	12	33	17	20	26	15	17	7	25
BFTB 06N6		NPT3/8	13	34				16	22	7	25
BFTB 06N7		NPT1/2	16	37				19	24	7	25

FUB Four way Union Branch

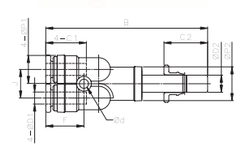


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread Rc	A	B	L	øP	C	J	F	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFUB 0102	5/32	PT 1/8	8	45	41	14	10	13	13	12	4	100
BFUB 0104		PT 1/4	11	48	42				13	14	4	100
BFUB 0402	1/4	PT 1/8	8	54	50	16	12	16	16	14	6	50
BFUB 0404		PT 1/4	11	57	51				16	14	6	50
BFUB 0406		PT 3/8	12	59	52				16	17	6	50

Parts No.	Tube O.D ø D	NPT Thread Rc	A	B	L	øP	C	J	F	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFUB 01N2	5/32	NPT 1/8	8	45	41	10	14	10	13	12	4	100
BFUB 01N4		NPT 1/4	11	48	42					14	4	100
BFUB 04N2	1/4	NPT 1/8	8	54	50	12	16	12	16	14	6	50
BFUB 04N4		NPT 1/4	11	57	51					14	6	50
BFUB 04N6		NPT 3/8	12	59	52					17	6	50

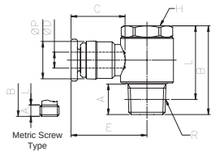
FUR Four way Union Reducer



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	øP1	øP2	C1	C2	J	F	ød	Orifice Dia. (Ømm)	Qty (EA)
BFUR 0104	5/32	1/4	55	10	12	14	8	10	13	3.2	4	50
BFUR 0405	1/4	5/16	65	12	14	16	8	12	16	3.2	6	50

UES Universal Elbow Stop

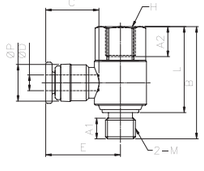


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUES 01M5	5/32	M5X0.8	4.5	21.5	17	10	14	18	8	2.5	100
BUES 01M6		M6X1.0	4.5	21.5	17			18	8	3	100
BUES 0102		PT1/8	8	25.5	21.5			19	10	5	100
BUES 0104		PT1/4	11	29.5	23.5			21	14	7.5	100
BUES 01M5	3/16	M5X0.8	4.5	23.5	18.8	12	16	20	8	2.5	100
BUES 01M6		M6X1.0	4.5	23.5	18.8			20	8	3	100
BUES 0302		PT1/8	8	27.5	23.5			21	10	5	100
BUES 04M5	1/4	M5X0.8	4.5	23.5	18.8	12	16	20	8	2.5	50
BUES 04M6		M6X1.0	4.5	23.5	18.8			20	8	3	50
BUES 0402		PT1/8	8	27.5	23.5			21	10	5	50
BUES 0404		PT1/4	11	31.5	25.5			23	14	7.5	50
BUES 0406		PT3/8	12	32	25.8			25	17	10	50
BUES 0502	5/16	PT1/8	8	30.5	26.5	14	17	23	10	5	50
BUES 0504		PT1/4	11	34.5	28.5			25	14	7.5	50
BUES 0506		PT3/8	12	35	29			26	17	10	50
BUES 0507		PT1/2	15	39	30.5			29	17	12	50
BUES 0604	3/8	PT1/4	11	37.5	31.5	17.5	20	28	14	7.5	25
BUES 0606		PT3/8	12	38	32			29	17	10	25
BUES 0607		PT1/2	15	42	33.5			34	22	12	25
BUES 0706	1/2	PT3/8	12	42	36			31	17	10	20
BUES 0707		PT1/2	15	46	37.5			31	22	12	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUES 01U1	5/32	10-32UNF	3.5	22.5	17	10	14	18	8	2.5	100
BUES 01N2		NPT1/8	8	25.5	21.5			19	10	5	100
BUES 01N4		NPT1/4	11	29.5	23.5			21	14	7.5	100
BUES 03U1	3/16	10-32UNF	3.5	24.5	18.8	12	16	20	8	2.5	50
BUES 03N2		NPT1/8	8	27.5	23.5			21	10	5	50
BUES 03N4		NPT1/4	11	31.5	25.5			23	14	7.5	50
BUES 03N6		NPT3/8	12	32	25.8			25	17	10	50
BUES 04U1	1/4	10-32UNF	3.5	24.5	18.8	12	16	20	8	2.5	50
BUES 04N2		NPT1/8	8	27.5	23.5			21	10	5	50
BUES 04N4		NPT1/4	11	31.5	25.5			23	14	7.5	50
BUES 04N6		NPT3/8	12	32	25.8			25	17	10	50
BUES 05N2	5/16	NPT1/8	8	30.5	26.5	14	17	23	10	5	50
BUES 05N4		NPT1/4	11	34.5	28.5			25	14	7.5	50
BUES 05N6		NPT3/8	12	35	29			26	17	10	50
BUES 05N7		NPT1/2	15	39	30.5			29	24	12	50
BUES 06N4	3/8	NPT1/4	11	37.5	31.5	17.5	20	28	14	7.5	25
BUES 06N6		NPT3/8	12	38	32			29	17	10	25
BUES 06N7		NPT1/2	15	42	33.5			34	22	12	25
BUES 07N6	1/2	NPT3/8	12	42	36	21.5	22	31	17	10	20
BUES 07N7		NPT1/2	15	46	37.5			31	22	12	20

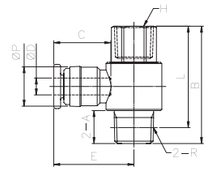
UEJ Universal Elbow Joint



(Unit:mm)

Parts No.	Tube O.D ø D	Metric Thread M	A1	A2	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUEJ 01M08	5/32	M8x1	8.5	8	31.5	2	10	14	19	12	4	100
BUEJ 04M08	1/4	M8x1	8.5	8	31.5	23	12	16	21	12	4	50
BUEJ 04M12		M12x1	8.5	8	32	23.5			23	17	7	50
BUEJ 05M12	5/16	M12x1	8.5	8	35	26.5	14	17	25	17	7	50
BUEJ 05M14		M14x1	6	7	33	27			26	19	7.5	50
BUEJ 06M14	3/8	M14x1	6	7	36	30	17.5	20	29	19	7.5	25
BUEJ 07M14	1/2	M14x1	6	7	40	34	21.5	22	31	19	7.5	20
BUEJ 07M18		M18x1	10	10	49	39			34	22	9	20

UEF Universal Elbow Female

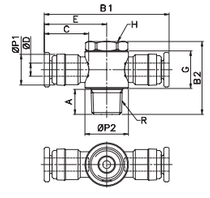


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUEF 01M5	5/32	M5X0.8	3.5	22	18.5	10	14	18	8	2.5	100
BUEF 0102		PT1/8	8.2	30.5	26.5			19	12	5	100
BUEF 03M5	3/16	M5X0.8	3.5	24	20.5	12	16	20	8	2.5	100
BUEF 0302		PT1/8	8.2	32.5	28.5			21	12	5	100
BUEF 04M5	1/4	M5X0.8	3.5	24	20.5	12	16	20	8	2.5	50
BUEF 0402		PT1/8	8.2	32.5	28.5			21	12	5	50
BUEF 0404		PT1/4	11	38	32			23	17	7	50
BUEF 0502	5/16	PT1/8	8.2	35.5	31.5	14	17	23	12	5	50
BUEF 0504		PT1/4	11	41	35			25	17	7	50
BUEF 0506		PT3/8	12	43	37			6	19	10	50
BUEF 0604	3/8	PT1/4	11	44	38	17.5	21	28	17	7	25
BUEF 0606		PT3/8	12	46	40			29	19	10	25
BUEF 0706	1/2	PT3/8	12	50	44	21.5	22	31	19	10	20
BUEF 0707		PT1/2	15	57.5	49.5			34	24	12	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	øP	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUEF 01U1	5/32	10-32UNF	4	21.5	18.5	10	14	18	8	2.5	100
BUEF 01N2		NPT1/8	5	35	26.5			19	12	2	100
BUEF 03U1	3/16	10-32UNF	4	23.5	20.5	12	16	20	8	2.5	50
BUEF 03N2		NPT1/8	5	36	28.5			21	12	5	50
BUEF 03N4		NPT1/4	8	41	32			23	17	7	50
BUEF 04U1	1/4	10-32UNF	4	23.5	20.5	12	16	20	8	2.5	50
BUEF 04N2		NPT1/8	11	36	28.5			21	12	5	50
BUEF 04N4		NPT1/4	11	41	32			23	17	7	50
BUEF 05N2	5/16	NPT1/8	8	35.5	31.5	14	17	23	14	5	50
BUEF 05N4		NPT1/4	11	41	35			25	19	7	50
BUEF 05N6		NPT3/8	12	43	37			26	22	10	50
BUEF 06N4	3/8	NPT1/4	11	44	38	17.5	21	28	19	7	25
BUEF 06N6		NPT3/8	12	46	40			29	22	10	25
BUEF 07N6	1/2	NPT3/8	12	50	44	21.5	22	31	19	10	20
BUEF 07N7		NPT1/2	15	57.5	49.5			34	22	12	20

UTS Universal Tee Stop

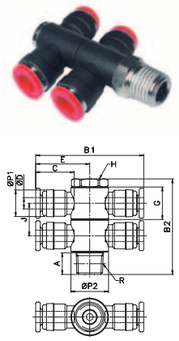


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B1	B2	G	øP1	øP2	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUTS 0102	5/32	PT1/8	8	38	23	12	10	10	12	19	10	5	100
BUTS 0402	1/4	PT1/8	8	42	25	14	12	12	14	21	10	5	50
BUTS 0404		PT1/4	11	46	28					23	14	7.5	50
BUTS 0502	5/16	PT1/8	8	46	28	17	14	14	17	23	10	5	50
BUTS 0504		PT1/4	11	50	31					25	14	7.5	50
BUTS 0506		PT3/8	12	52	32					26	17	10	50
BUTS 0604	3/8	PT1/4	11	56	34	20	17.5	17.5	20	28	14	7.5	25
BUTS 0606		PT3/8	12	58	35					29	17	10	25
BUTS 0706	1/2	PT3/8	12	62	39	22	21.5	21.5	24	31	17	10	20
BUTS 0707		PT1/2	15	62	42					31	22	12	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B1	B2	G	øP1	øP2	C	E	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUTS 01N2	5/32	NPT1/8	7	38	22	12	10	10	12	19	10	5	100
BUTS 04N2	1/4	NPT1/8	7	42	24	14	12	12	14	21	10	5	50
BUTS 04N4		NPT1/4	10.5	46	26.5					23	14	7.5	50
BUTS 05N2	5/16	NPT1/8	7	46	27	17	14	14	17	23	10	5	50
BUTS 05N4		NPT1/4	10.5	50	29.5					25	14	7.5	50
BUTS 05N6		NPT3/8	10.5	52	30.5					26	17	10	50
BUTS 06N4	3/8	NPT1/4	10.5	56	32.5	20	17.5	17.5	20	28	14	7.5	25
BUTS 06N6		NPT3/8	10.5	58	33.5					29	17	10	25
BUTS 07N6	1/2	NPT3/8	10.5	62	37.5	22	21.5	21.5	24	31	17	10	20
BUTS 07N7		NPT1/2	14	62	41					31	22	12	20

UDTS Universal Double Tee Stop

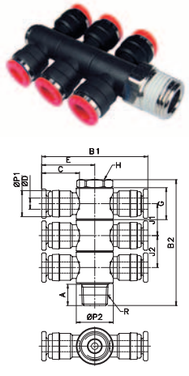


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B1	B2	G	øP1	øP2	C	E	J	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUDTS 0102	5/32	PT1/8	8	38	50	12	10	10	12	19	12	10	5	100
BUDTS 0402	1/4	PT1/8	8	42	56	14	12	12	14	21	14	10	5	50
BUDTS 0404		PT1/4	11	46	60					23	14	14	7.5	50
BUDTS 0502	5/16	PT1/8	8	46	63	17	14	14	17	23	17	10	5	50
BUDTS 0504		PT1/4	11	50	67					25	17	14	7.5	50
BUDTS 0506		PT3/8	12	52	69					26	17	17	10	50
BUDTS 0604	3/8	PT1/4	11	56	76	20	17.5	17.5	20	28	20	14	7.5	25
BUDTS 0606		PT3/8	12	58	78					29	20	17	10	25
BUDTS 0706	1/2	PT3/8	12	62	76	22	21.5	21.5	24	31	24	17	10	20
BUDTS 0707		PT1/2	15	62	76					31	24	22	12	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B1	B2	G	øP1	øP2	C	E	J	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUDTS 01N2	5/32	NPT1/8	7	38	49	12	10	10	12	19	12	10	5	100
BUDTS 04N2	1/4	NPT1/8	7	42	55	14	12	12	14	21	14	10	5	50
BUDTS 04N4		NPT1/4	10.5	46	59.5					23	14	14	7.5	50
BUDTS 05N2	5/16	NPT1/8	7	46	62	17	14	14	17	23	17	10	5	50
BUDTS 05N4		NPT1/4	10.5	50	66.5					25	17	14	7.5	50
BUDTS 05N6		NPT3/8	10.5	52	67.5					26	17	17	10	50
BUDTS 06N4	3/8	NPT1/4	10.5	56	75.5	20	17.5	17.5	20	28	20	14	7.5	25
BUDTS 06N6		NPT3/8	10.5	58	76.5					29	20	17	10	25
BUDTS 07N6	1/2	NPT3/8	10.5	62	74.5	22	21.5	21.5	24	31	24	17	10	20
BUDTS 07N7		NPT1/2	14	62	75					31	24	22	12	20

UTTS Universal Triple Tee Stop

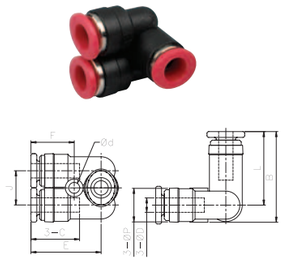


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B1	B2	G	øP1	øP2	C	E	J1	J2	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUTTS 0102	5/32	PT1/8	8	38	62	12	10	10	12	19	12	12	10	5	100
BUTTS 0402	1/4	PT1/8	8	42	70	14	12	12	14	21	14	14	10	5	50
BUTTS 0404		PT1/4	11	46	74					23			14	7.5	50
BUTTS 0502	5/16	PT1/8	8	46	80	17	14	14	17	23	17	17	10	5	50
BUTTS 0504		PT1/4	11	50	84					25			14	7.5	50
BUTTS 0506		PT3/8	12	52	86					26			17	10	50
BUTTS 0604	3/8	PT1/4	11	56	96	20	17.5	17.5	20	28	20	20	14	7.5	25
BUTTS 0606		PT3/8	12	58	98					29			17	10	25
BUTTS 0706	1/2	PT3/8	12	62	100	22	21.5	21.5	24	31	24	24	17	10	20
BUTTS 0707		PT1/2	15	62	100					31			22	12	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B1	B2	G	øP1	øP2	C	E	J1	J2	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BUTTS 01N2	5/32	NPT1/8	7	38	61	12	10	10	12	19	12	12	10	5	100
BUTTS 04N2	1/4	NPT1/8	7	42	69	14	12	12	14	21	14	14	10	5	50
BUTTS 04N4		NPT1/4	10.5	46	73.5					23			14	7.5	50
BUTTS 05N2	5/16	NPT1/8	7	46	79	17	14	14	17	23	17	17	10	5	50
BUTTS 05N4		NPT1/4	10.5	50	83.5					25			14	7.5	50
BUTTS 05N6		NPT3/8	10.5	52	84.5					26			17	10	50
BUTTS 06N4	3/8	NPT1/4	10.5	56	95.5	20	17.5	17.5	20	28	20	20	14	7.5	25
BUTTS 06N6		NPT3/8	10.5	58	96.5					29			17	10	25
BUTTS 07N6	1/2	NPT3/8	10.5	62	98.5	22	21.5	21.5	24	31	24	24	17	10	20
BUTTS 07N7		NPT1/2	14	62	99					31			22	12	20

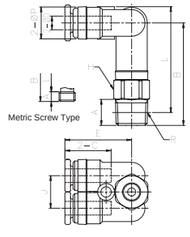
TE Two way Elbow



(Unit:mm)

Parts No.	Tube O.D ø D	B	L	øP	C	J	E	F	ød	Orifice Dia. (Ømm)	Qty (EA)
BTE 0101	5/32	22	17	10	14	10	19.5	12	3.2	3	100
BTE 0404	1/4	27	21	12	16	12	21.5	13	3.2	5	50
BTE 0505	5/16	30	23	14	17	14	24.5	15	4.2	6	50
BTE 0606	3/8	36	27	17.5	20	17.5	34.5	23	4.2	7	25
BTE 0707	1/2	40	30	21.5	22	21.5	33.5	20	4.28	8	20

TEB Two way Elbow Branch

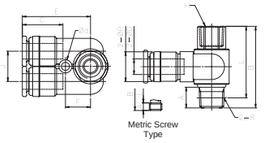


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	øP	C	J	E	F	ød	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEB 01M5	5/32	M5X0.8	4	25.5	26.5	10	14	10	20	16	32	10	2.5	100
BTEB 01M6		M6X1.0	4	25.5	26.5							10	2.5	50
BTEB 0102		PT1/8	8	26.5	27.5							10	2.5	100
BTEB 0104		PT1/4	11	29.5	28.5							14	2.5	100
BTEB 04M5	1/4	M5X0.8	4	29.5	31.5	12	16	12	22	16	32	12	2.5	50
BTEB 04M6		M6X1.0	4	29.5	31.5							12	2.5	50
BTEB 0402		PT1/8	8	31	33							12	4	50
BTEB 0404		PT1/4	11	34	34							14	4	50
BTEB 0406		PT3/8	12	36	35.5							17	4	50
BTEB 0502	5/16	PT1/8	8	32	35	14	17	14	25	19	4.2	14	6	50
BTEB 0504		PT1/4	11	35	36							14	6	50
BTEB 0506		PT3/8	12	36.5	37							17	6	50
BTEB 0507		PT1/2	15	46	38							22	6	50
BTEB 0604	3/8	PT1/4	11	38.5	41.5	17.5	20	17.5	35	21	4.2	17	7	25
BTEB 0606		PT3/8	12	40	42.5							17	7	25
BTEB 0607		PT1/2	15	44	45							22	7	25
BTEB 0704	1/2	PT1/4	11	42	46.5	21.5	22	21.5	34	23	4.2	22	7.5	20
BTEB 0706		PT3/8	12	43	47							22	9	20
BTEB 0707		PT1/2	15	47	49.5							22	9	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	øP	C	J	E	F	ød	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEB 01U1	5/32	10-32UNF	4	25.5	26.5	10	14	10	20	16	3.2	10	2.5	100
BTEB 01N2		NPT1/8	5	26.5	27.5							10	2.5	100
BTEB 01N4		NPT1/4	8	29.5	28.5							14	2.5	100
BTEB 04U1	1/4	10-32UNF	4	29.5	31.5	12	16	12	22	16	3.2	12	2.5	50
BTEB 04N2		NPT1/8	5	31	33							12	4	50
BTEB 04N4		NPT1/4	8	34	34							14	4	50
BTEB 04N6		NPT3/8	11	36	35.5							17	4	50
BTEB 05N2	5/16	NPT1/8	5	32	35	14	17	14	25	19	4.2	14	6	50
BTEB 05N4		NPT1/4	8	35	36							14	6	50
BTEB 05N6		NPT3/8	11	36.5	37							17	6	50
BTEB 05N7		NPT1/2	15	46	38							22		50
BTEB 06N4	3/8	NPT1/4	8	38.5	41.5	17.5	20	17.5	35	21	4.2	17	7	25
BTEB 06N6		NPT3/8	11	40	42.5							17	7	25
BTEB 06N7		NPT1/2	15	44	45							22	7	25
BTEB 07N4	1/2	NPT1/4	8	42	46.5	21.5	22	21.5	34	23	4.2	22	7.5	20
BTEB 07N6		NPT3/8	11	43	47							22	9	20
BTEB 07N7		NPT1/2	15	47	49.5							22	9	20

TEF Two way Elbow Female

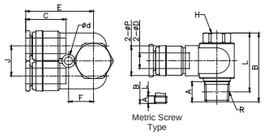


(Unit :mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	J	E	F	ø d	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEF 01M5	5/32	M5x0.8	3.5	22	18.5	10	14	21	8	12	3.2	8	2.5	100
BTEF 0402	1/4	PT1/8	8.5	32.5	28.5	12	16	26	12	17	3.2	12	5	50
BTEF 0504	5/16	PT1/4	11	41	35	14	17	31	17	19	4.2	17	7	50
BTEF 0606	3/8	PT3/8	12	46	40	17.5	20	34	19	20	4.2	19	10	25
BTEF 0706	1/2	PT3/8	12	50	44	21.5	22	39	19	22	4.2	19	10	20
BTEF 0707		PT1/2	15	57.5	50	21.5	22	39	24	22	4.2	24	12	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	ø P	C	J	E	F	ø d	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEF 01U1	5/32	10-32UNF	4	21.5	18.5	10	14	21	8	12	3.2	8	2.5	100
BTEF 03N2	3/16	NPT1/8	8	33	28.5	12	16	26	12	17	3.2	8	5	50
BTEF 04N2	1/4	NPT1/8	8	33	28.5	12	16	26	12	17	3.2	12	5	50
BTEF 05N4	5/16	NPT1/4	11	41	35	14	17	31	17	19	4.2	17	7	50
BTEF 06N6	3/8	NPT3/8	12	46	40	17.5	20	34	19	20	4.2	19	10	25
BTEF 07N6	1/2	NPT3/8	12	50	44	21.5	22	39	19	22	4.2	19	10	20
BTEF 07N7		NPT1/2	15	57.5	50	21.5	22	39	24	22	4.2	24	12	20

TEP Two way Elbow stoP

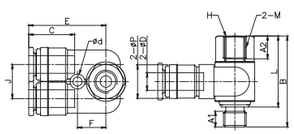


(Unit :mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	E	J	F	ø d	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEP 01M5	5/32	M5X0.8	4.5	21.5	17	10	14	21	10	12	3.2	8	2.5	100
BTEP 0402	1/4	PT1/8	8	27.5	23.5	12	16	26	12	17	3.2	8	3	50
BTEP 0504	5/16	PT1/4	11	34.5	28.5	14	17	31	14	19	4.2	14	7.5	50
BTEP 0606	3/8	PT3/8	12	38	32	17.5	20	34	17.5	20	4.2	17	10	25
BTEP 0706	1/2	PT3/8	12	42	36	21.5	22	39	21.5	22	4.2	17	10	20
BTEP 0707		PT1/2	15	46	37.5	21.5	22	39	21.5	22	4.2	22	12	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	ø P	C	E	J	F	ø d	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEP 01U1	5/32	10-32UNF	4	22	17	10	14	21	10	12	3.2	8	2.5	100
BTEP 03N2	3/16	NPT1/8	8	27.5	23.5	12	16	26	12	17	3.2	8	3	50
BTEP 04N2	1/4	NPT1/8	8	27.5	23.5	12	16	26	12	17	3.2	8	3	50
BTEP 05N4	5/16	NPT1/4	11	34.5	28.5	14	17	31	14	19	4.2	14	7.5	50
BTEP 06N6	3/8	NPT3/8	12	38	32	17.5	20	34	17.5	20	4.2	17	10	25
BTEP 07N6	1/2	NPT3/8	12	42	36	21.5	22	39	21.5	22	4.2	17	10	20
BTEP 07N7		NPT1/2	15	46	37.5	21.5	22	39	21.5	22	4.2	22	12	20

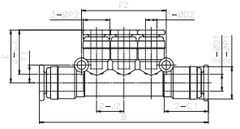
TEJ Two way Elbow Joint



(Unit :mm)

Parts No.	Tube O.D ø D	Metric Thread M	A1	A2	B	L	ø P	C	E	J	F	ø d	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTEJ 06M14	3/8	M14x1.0	6	7	36	30	17.5	20	34	17.5	20	4.2	19	7.5	50
BTEJ 07M18	1/2	M18x1.0	10	10	49	39	21.5	22	39	21.5	22	4.2	22	12	50

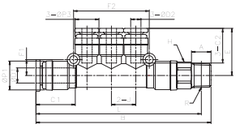
TT Tee union Triple



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	B	øP1	øP2	C1	C2	J	E	F1	F2	ø d	Orifice Dia. (Ømm)	Qty (EA)
BTT 0301	3/16	5/32	61	12	10	16	14	10	19	15	15	3.2	3	50
BTT 0401	1/4	5/32	61	12	10	16	14	10	19	15	15	3.2	5	50
BTT 0501	5/16	5/32	64	14	10	17	14	10	19	17	17	4.2	7	50
BTT 0504		1/4	72	14	12	17	16	12	19	19	19	4.2	7	25
BTT 0604	3/8	1/4	78	17.5	12	20	16	12	20	19	19	4.2	9	25
BTT 0605		5/16	82	17.5	14	14	17	14	20	23	23	4.2	9	25

TTB Tee union Triple Branch

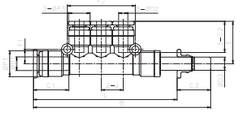


(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	PT Thread R	A	B	L	øP1	øP2	C1	C2	J	E	F1	F2	ø d	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTTB 030102	3/16	5/32	PT1/8	8	65	65	12	10	16	14.2	10	19	15	15	3.2	10	2.5	50
BTTB 040102	1/4	5/32	PT1/8	8	70	70	12	10	16	14.2	10	19	15	15	3.2	10	2.5	50
BTTB 040104			PT1/4	11	73	73										10	2.5	50
BTTB 040106			PT3/8	12	74	74										10	2.5	50
BTTB 050102	5/16	5/32	PT1/8	8	72	69	14	10	17	14.2	10	18	17	17	3.2	14	4	50
BTTB 050104			PT1/4	11	75	70										14	4	50
BTTB 050106			PT3/8	12	76	71										17	4	50
BTTB 050107			PT1/2	15	79	74										22	4	50
BTTB 050402		1/4	PT1/8	8	80	76	14	12	17	16.1	12	19	19	19	4.2	14	6	50
BTTB 050404			PT1/4	11	83	77										14	6	50
BTTB 050406			PT3/8	12	84	78										17	6	50
BTTB 050407			PT1/2	15	88	80										22	6	50
BTTB 060404	3/8	1/4	PT1/4	11	89	83	17.5	12	20	16.1	12	20	19	19	4.2	177	7	25
BTTB 060406			PT3/8	12	91	84										17	7	25
BTTB 060407			PT1/2	15	95	87										22	7	25
BTTB 060504		5/16	PT1/4	11	93	87	17.5	14	20	17.7	14	20	23	23	4.2	17	7	25
BTTB 060506			PT3/8	12	95	88										17	7	25
BTTB 060507			PT1/2	15	99	91										22	7	25

Parts No.	Tube O.D ø D1	Tube O.D ø D2	NPT Thread R	A	B	L	øP1	øP2	C1	C2	J	E	F1	F2	ø d	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BTTB 0301N2	3/16	5/32	NPT1/8	7	66	65	12	10	16	14.2	10	19	15	15	3.2	10	2.5	50
BTTB 0401N2	1/4	5/32	NPT1/8	7	71	70	12	10	16	14.2	10	19	15	15	3.2	10	2.5	50
BTTB 0401N4			NPT1/4	10.5	74.5	73										10	2.5	50
BTTB 0401N6			NPT3/8	10.5	74.5	74										10	2.5	50
BTTB 0501N2	5/16	5/32	NPT1/8	7	73	69	14	10	17	14.2	10	18	17	17	3.2	14	4	50
BTTB 0501N4			NPT1/4	10.5	75.5	70										14	4	50
BTTB 0501N6			NPT3/8	10.5	75.5	71										17	4	50
BTTB 0501N7			NPT1/2	14	79	74										22	4	50
BTTB 0504N2		1/4	NPT1/8	7	80	76	14	12	17	16.1	12	19	19	19	4.2	14	6	50
BTTB 0504N4			NPT1/4	10.5	83	77										14	6	50
BTTB 0504N6			NPT3/8	10.5	84	78										17	6	50
BTTB 0504N7			NPT1/2	14	88	80										22	6	50
BTTB 0604N4	3/8	1/4	NPT1/4	10.5	89	83	17.5	12	20	16.1	12	20	19	19	4.2	17	7	25
BTTB 0604N6			NPT3/8	10.5	91	84										17	7	25
BTTB 0604N7			NPT1/2	14	95	87										22	7	25
BTTB 0605N4		5/16	NPT1/4	10.5	93	87	17.5	14	20	17.7	14	20	23	23	4.2	17	7	25
BTTB 0605N6			NPT3/8	10.5	95	88										17	7	25
BTTB 0605N7			NPT1/2	14	99	91										22	7	25

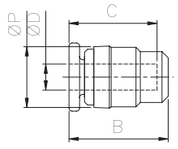
TTS Tee union Triple Stem



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	Stem O.D ø D3	B	L	ø P1	ø P2	C1	C2	C3	J	E	F1	F2	ø d	Orifice Dia. (ø mm)	Qty (EA)
BTTS 030103	3/16	5/32	3/16	80	72	12	10	16	14	8	10	19	15	15	3.2	3	50
BTTS 040104	1/4	5/32	1/4	80	72	12	10	16	14	8	10	19	15	15	3.2	4	50
BTTS 050105	5/16	5/32	5/16	84	76	14	10	17	14	8	10	19	17	17	4.2	7	50
BTTS 050405		1/4		91	82	14	12	17	16	8	12	19	19	19	4.2	7	50
BTTS 060406	3/8	1/4	3/8	100	90	17	12	20	16	10	12	20	19	19	4.2	9	25
BTTB 060506		5/16		104	94	17	14	20	17	10	14	20	23	23	4.2	9	25

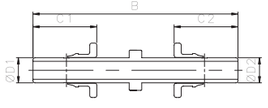
TS Tube Stop



(Unit:mm)

Parts No.	Tube O.D ø D	C	B	ø P	Qty (EA)
BTS 04	1/4	16	18	12	50
BTS 05	5/16	17	21	14	50
BTS 06	3/8	20	23	17.5	25
BTS 07	1/2	22	25	21.5	20

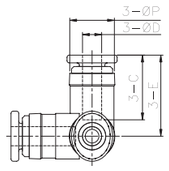
SS Stem to Stem



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	C1	C2	B	Orifice Dia. (ø mm)	Qty (EA)
BSS 0101	5/32	5/32	7	7	35	2	100
BSS 0301	3/16	5/32	8	7	36	3	50
BSS 0303		3/16	8	8	38	4	50
BSS 0401	1/4	5/32	8	7	35	3	50
BSS 0403		3/16	8	8	38	4	50
BSS 0404		1/4	8	8	38	4	50
BSS 0501	5/16	5/32	8	7	38	4	50
BSS 0504		1/4	8	8	39	4	50
BSS 0505		5/16	8	8	39.5	6	50
BSS 0605	3/8	5/16	10	8	43	8	25
BSS 0606		3/8	10	10	46	8	25
BSS 0706	1/2	3/8	10.5	10	48	12	20
BSS 0707		1/2	10.5	10.5	50	12	20

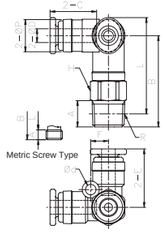
TA TriAngle union



(Unit:mm)

Parts No.	Tube O.D ø D	C	E	ø P	F	ø d	Orifice Dia. (ø mm)	Qty (EA)
BTA 0101	5/32	14	17	10	12	3.2	3	100
BTA 0404	1/4	16	21	12	14	3.2	5	50
BTA 0505	5/16	17	24	14	16	4.2	7	50
BTA 0606	3/8	20	28	17.5	19	4.2	9	25
BTA 0707	1/2	22	31	21.5	21	4.2	11	20

TAB TriAngle union Branch

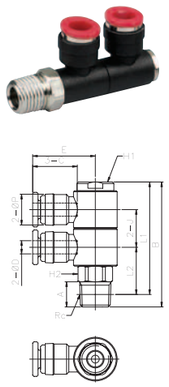


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	E	F	ø d	Hex H	Orifice Dia. (ø mm)	Qty (EA)
BTAB 01M5	5/32	M5X0.8	4	25.5	26.5	10	14	17	7	3.2	10	2.5	100
BTAB 01M6		M6X1.0	4	25.5	26.5						10	2.5	100
BTAB 0102		PT1/8	8	27	28						10	2.5	100
BTAB 0104		PT1/4	11	30	29						14	2.5	100
BTAB 04M5	1/4	M5X0.8	4	29	31	12	16	21	8	3.2	12	2.5	50
BTAB 04M6		M6X1.0	4	29	31						12	2.5	50
BTAB 0402		PT1/8	8	30.5	32.5						12	4	50
BTAB 0404		PT1/4	11	33.5	33.5						14	4	50
BTAB 0406		PT3/8	12	35.5	35						17	4	50
BTAB 0502	5/16	PT1/8	8	32.5	36	14	17	23	9.5	4.2	14	6	50
BTAB 0504		PT1/4	11	35.5	46						14	6	50
BTAB 0506		PT3/8	12	37	48.5						17	6	50
BTAB 0507		PT1/2	15	46	38						22	6	50
BTAB 0604	3/8	PT1/4	11	39.5	42.5	17.5	20	28	11	4.2	17	7	25
BTAB 0606		PT3/8	12	41	43.5						17	7	25
BTAB 0607		PT1/2	15	45	45.5						22	7	25
BTAB 0704	1/2	PT1/4	11	43	48	21.5	22	31	13	4.2	21	7.5	20
BTAB 0706		PT3/8	12	44	48.5						21	9	20
BTAB 0707		PT1/2	15	48	50.5						22	9	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	ø P	C	E	F	ø d	Hex H	Orifice Dia. (ø mm)	Qty (EA)
BTAB 01U1	5/32	10-32UNF	4	25.5	26.5	10	14	17	7	3.2	10	2.5	100
BTAB 01N2		NPT1/8	8	27	28						10	2.5	100
BTAB 01N4		NPT1/4	11	30	29						14	2.5	100
BTAB 04U1	1/4	10-32UNF	4	29	31	12	16	21	8	3.2	12	2.5	50
BTAB 04N2		NPT1/8	8	30.5	32.5						12	4	50
BTAB 04N4		NPT1/4	11	33.5	33.5						14	4	50
BTAB 04N6		NPT3/8	12	35.5	355						17	4	50
BTAB 05N2	5/16	NPT1/8	8	32.5	36	14	17	23	9.5	4.2	14	6	50
BTAB 05N4		NPT1/4	11	35.5	36						14	6	50
BTAB 05N6		NPT3/8	12	37	38.5						17	6	50
BTAB 05N7		NPT1/2	15	46	38						22	6	50
BTAB 06N4	3/8	NPT1/4	11	39.5	42.5	17.5	20	28	11	4.2	17	7	25
BTAB 06N6		NPT3/8	12	41	43.5						17	7	25
BTAB 06N7		NPT1/2	15	45	45.5						22	7	25
BTAB 07N4	1/2	NPT1/4	11	43	48	21.5	22	31	13	4.2	21	7.5	20
BTAB 07N6		NPT3/8	12	44	48.5						21	9	20
BTAB 07N7		NPT1/2	15	48	50.5						22	9	20

STC Single Two way Connector



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread Rc	A	B	L1	L2	⌀P	C	E	J	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BSTC 0102	5/32	PT1/8	8	52	48	15	10	14	18	12	10	10	3	100
BSTC 0104		PT1/4	11	55	49	16						14	3	100
BSTC 0106		PT3/8	12	57	50.5	17.5						17	3	100
BSTC 0402	1/4	PT1/8	8	58	54	16	12	16	21	14	12	10	3.5	50
BSTC 0404		PT1/4	11	62	56	18						14	3.5	50
BSTC 0406		PT3/8	12	63	56.5	18.5						17	3.5	50
BSTC 0502	5/16	PT1/8	8	67	63	17.5	14	17	25	17	13.5	14	5	50
BSTC 0504		PT1/4	11	70	64	18.5						14	5	50
BSTC 0506		PT3/8	12	72	65.5	20.5						17	5	50
BSTC 0507		PT1/2	15	76	67.5	22.5						22	5	50
BSTC 0604	3/8	PT1/4	11	80.5	74.5	21	17.5	20	29	20	19.5	17	5	25
BSTC 0606		PT3/8	12	71.5	75.5	21.5						17	5	25
BSTC 0607		PT1/2	15	75.5	77.5	24						22	5	25
BSTC 0704	1/2	PT1/4	11	95.5	89.5	25	21.5	22	34	24	24	22	10	20
BSTC 0706		PT3/8	12	95.5	89	24.5						22	10	20
BSTC 0707		PT1/2	15	98.5	90	26						22	10	20

Parts No.	Tube O.D ⌀D	NPT Thread Rc	A	B	L1	L2	⌀P	C	E	J	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BSTC 01N2	5/32	NPT1/8	7	53	48	15	10	14	18	12	10	10	3	100
BSTC 01N4		NPT1/4	10.5	55.5	49	16						14	3	100
BSTC 01N6		NPT3/8	10.5	58.5	50.5	17.5						17	3	100
BSTC 04N2	1/4	NPT1/8	7	59	54	16	12	16	21	14	12	10	3.5	50
BSTC 04N4		NPT1/4	10.5	62	56	18						14	3.5	50
BSTC 04N6		NPT3/8	10.5	64.5	56.5	18.5						17	3.5	50
BSTC 05N2	5/16	NPT1/8	7	68	63	17.5	14	17	25	17	13.5	14	5	50
BSTC 05N4		NPT1/4	10.5	70.5	64	18.5						14	5	50
BSTC 05N6		NPT3/8	10.5	73.5	65.5	20.5						17	5	50
BSTC 05N7		NPT1/2	14	77	67.5	22.5						22	5	50
BSTC 06N4	3/8	NPT1/4	10.5	81	74.5	21	17.5	20	29	20	19.5	17	5	25
BSTC 06N6		NPT3/8	10.5	83	75.5	21.5						17	5	25
BSTC 06N7		NPT1/2	14	86.5	77.5	24						22	5	25
BSTC 07N4	1/2	NPT1/4	10.5	90	78.5	25	21.5	22	34	24	24	22	10	20
BSTC 07N6		NPT3/8	10.5	97	89	24.5						22	10	20
BSTC 07N7		NPT1/2	14	99.5	90	26						22	10	20

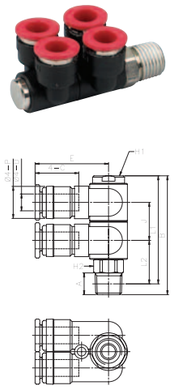
SHC Single tHree way Connector

(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L1	L2	⌀P	C	E	J	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BSHC 0102	5/32	PT1/8	8	40	36	14	10	14	18	12	10	10	3	100
BSHC 0104		PT1/4	11	43	37	16						14	3	100
BSHC 0106		PT3/8	12	45	38.5	17.5						17	3	100
BSHC 0402	1/4	PT1/8	8	44	40	16	12	16	21	14	12	10	3.5	50
BSHC 0404		PT1/4	11	48	42	18						14	3.5	50
BSHC 0406		PT3/8	12	49	42.5	18.5						17	3.5	50
BSHC 0502	5/16	PT1/8	8	50	46	17.5	14	17	25	17	13.5	14	5	50
BSHC 0504		PT1/4	11	53	47	18.5						14	5	50
BSHC 0506		PT3/8	12	55	48.5	20						17	5	50
BSHC 0507		PT1/2	15	58.5	50.5	22.5						22	5	50
BSHC 0604	3/8	PT1/4	11	60.5	54.5	21	17.5	20	29	20	19.5	17	5	25
BSHC 0606		PT3/8	12	61.5	55	21.5						17	5	25
BSHC 0607		PT1/2	15	65.5	57.5	24						22	5	25
BSHC 0704	1/2	PT1/4	11	71.5	65.5	25	21.5	22	34	24	24	22	10	20
BSHC 0706		PT3/8	12	71.5	65	25						22	10	20
BSHC 0707		PT1/2	15	74.5	66	26						22	10	20

Parts No.	Tube O.D ⌀D	NPT Thread R	A	B	L1	L2	⌀P	C	E	J	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BSHC 01N2	5/32	NPT1/8	7	41	36	14	10	14	18	12	10	10	3	100
BSHC 01N4		NPT1/4	10.5	43.5	37	16						14	3	100
BSHC 01N6		NPT3/8	10.5	46.5	38.5	17.5						17	3	100
BSHC 04N2	1/4	NPT1/8	7	45	40	16	12	16	21	14	12	10	3.5	50
BSHC 04N4		NPT1/4	10.5	48.5	42	18						14	3.5	50
BSHC 04N6		NPT3/8	10.5	50.5	42.5	18.5						17	3.5	50
BSHC 05N2	5/16	NPT1/8	7	51	46	17.5	14	17	25	17	13.5	14	5	50
BSHC 05N4		NPT1/4	10.5	53.5	47	18.5						14	5	50
BSHC 05N6		NPT3/8	10.5	56.5	48.5	20						17	5	50
BSHC 05N7		NPT1/2	14	59.5	50.5	22.2						22	5	50
BSHC 06N4	3/8	NPT1/4	10.5	61	54.5	21	17.5	20	29	20	19.5	17	5	25
BSHC 06N6		NPT3/8	10.5	63	55	21.5						17	5	25
BSHC 06N7		NPT1/2	14	66.5	57.5	24						22	5	25
BSHC 07N4	1/2	NPT1/4	10.5	72	65.5	25	21.5	22	34	24	24	22	10	20
BSHC 07N6		NPT3/8	10.5	73	65	25						22	10	20
BSHC 07N7		NPT1/2	14	75.5	66	26						22	10	20

DTC Double Two way Connector



(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L1	L2	⌀P	C	E	J	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BDTC 0102	5/32	PT1/8	8	40	36	15	10	14	21	12	10	10	3	100
BDTC 0104		PT1/4	11	43	37	16						14	3	100
BDTC 0106		PT 3/8	12	45	38.5	17.5						17	3	100
BDTC 0402	1/4	PT1/8	8	44	40	16	12	16	26	14	12	10	3.5	50
BDTC 0404		PT1/4	11	48	42	18						14	3.5	50
BDTC 0406		PT3/8	12	49	42.5	18.5						17	3.5	50
BDTC 0502	5/16	PT1/8	8	50	46	17.5	14	17	31	17	14	14	5	50
BDTC 0504		PT1/4	11	53	47	18.5						14	5	50
BDTC 0506		PT3/8	12	55	48.5	20						17	5	50
BDTC 0507		PT1/2	15	5835	50.5	22.5						22	5	50
BDTC 0604	3/8	PT1/4	11	60.5	54.5	21	17.5	20	34	20	19.5	17	5	25
BDTC 0606		PT3/8	12	61.5	55	21.5						17	5	25
BDTC 0607		PT1/2	15	65.5	57.5	24						22	5	25
BDTC 0704	1/2	PT1/4	11	71.5	65.5	25	21.5	22	39	24	24	22	10	20
BDTC 0706		PT3/8	12	71.5	65	24.5						22	10	20
BDTC 0707		PT1/2	15	74.5	66	26						22	10	20

Parts No.	Tube O.D ⌀D	NPT Thread R	A	B	L1	L2	⌀P	C	E	J	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BDTC 01N2	5/32	NPT1/8	7	41	36	15	10	14	21	12	10	10	3	100
BDTC 01N4		NPT1/4	10.5	43.5	37	16						14	3	100
BDTC 01N6		NPT 3/8	10.5	46.5	38.5	17.5						17	3	100
BDTC 04N2	1/4	NPT1/8	7	45	40	16	12	16	26	14	12	10	3.5	50
BDTC 04N4		NPT1/4	10.5	48.5	42	18						14	3.5	50
BDTC 04N6		NPT3/8	10.5	50.5	42.5	18.5						17	3.5	50
BDTC 05N2	5/16	NPT1/8	7	51	46	17.5	14	17	31	17	14	14	5	50
BDTC 05N4		NPT1/4	10.5	53.5	47	18.5						14	5	50
BDTC 05N6		NPT3/8	10.5	56.5	48.5	20						17	5	50
BDTC 05N7		NPT1/2	14	59.5	50.5	22.5						22	5	50
BDTC 06N4	3/8	NPT1/4	10.5	61.5	54.5	21	17.5	20	34	20	19.5	17	5	25
BDTC 06N6		NPT3/8	10.5	62	55	21.5						17	5	25
BDTC 06N7		NPT1/2	14	67	57.5	24						22	5	25
BDTC 07N4	1/2	NPT1/4	10.5	72.5	65.5	25	21.5	22	39	24	24	22	10	20
BDTC 07N6		NPT3/8	10.5	72	65	24.5						22	10	20
BDTC 07N7		NPT1/2	14	76	66	26						22	10	20

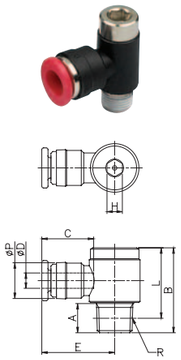
DHC Double tHree way Connector

(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L1	L2	⌀P	C	E	J	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BDHC 0102	5/32	PT1/8	8	52	48	15	10	14	21	12	10	10	3	100
BDHC 0104		PT1/4	11	55	49	16						14	3	100
BDHC 0106		PT 3/8	12	57	50.5	17.5						17	3	100
BDHC 0402	1/4	PT1/8	8	58	54	16	12	16	26	14	12	10	3.5	50
BDHC 0404		PT1/4	11	62	56	18						14	3.5	50
BDHC 0406		PT3/8	12	63	56.5	18.5						17	3.5	50
BDHC 0502	5/16	PT1/8	8	67	63	17.5	14	17	31	17	14	14	5	50
BDHC 0504		PT1/4	11	70	64	18.5						14	5	50
BDHC 0506		PT3/8	12	72	65.5	20						17	5	50
BDHC 0507		PT1/2	15	76	67.5	22.5						22	5	50
BDHC 0604	3/8	PT1/4	11	80.5	74.5	21	17.5	20	34	20	19.5	17	5	25
BDHC 0606		PT3/8	12	71.5	75	21.5						17	5	25
BDHC 0607		PT1/2	15	75.5	77.5	24						22	5	25
BDHC 0704	1/2	PT1/4	11	95.5	89.5	25	21.5	22	39	24	24	22	10	20
BDHC 0706		PT3/8	12	95.5	89	24.5						22	10	20
BDHC 0707		PT1/2	15	98.5	90	26						22	10	20

Parts No.	Tube O.D ⌀D	NPT Thread R	A	B	L1	L2	⌀P	C	E	J	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BDHC 01N2	5/32	NPT1/8	7	53	48	15	10	14	21	12	10	10	3	100
BDHC 01N4		NPT1/4	10.5	55.5	49	16						14	3	100
BDHC 01N6		NPT 3/8	10.5	58.5	50.5	17.5						17	3	100
BDHC 04N2	1/4	NPT1/8	7	59	54	16	12	16	26	14	12	10	3.5	50
BDHC 04N4		NPT1/4	10.5	62.5	56	18						14	3.5	50
BDHC 04N6		NPT3/8	10.5	64.5	56.5	18.5						17	3.5	50
BDHC 05N2	5/16	NPT1/8	7	68	63	17.5	14	17	31	17	14	14	5	50
BDHC 05N4		NPT1/4	10.5	70.5	64	18.5						14	5	50
BDHC 05N6		NPT3/8	10.5	72.5	65.5	20						17	5	50
BDHC 05N7		NPT1/2	14	77	67.5	22.5						22	5	50
BDHC 06N4	3/8	NPT1/4	10.5	81	74.5	21	17.5	20	34	20	19.5	17	5	25
BDHC 06N6		NPT3/8	10.5	83	75	21.5						17	5	25
BDHC 06N7		NPT1/2	14	86.5	77.5	24						22	5	25
BDHC 07N4	1/2	NPT1/4	10.5	96	89.5	25	21.5	22	39	24	24	22	10	20
BDHC 07N6		NPT3/8	10.5	97	89	24.5						22	10	20
BDHC 07N7		NPT1/2	14	99.5	90	26						22	10	20

UEH Universal Elbow Hexa



(Unit:mm)

Parts No.	Tube O.D ⌀D	NPT Thread R	⌀P	C	E	A	L	B	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BUEH 01U1	5/32	10-32UNF	10	14	18	3.5	16.5	21	5	2.5	100
BUEH 01N2		NPT1/8				8	21.5	25.5	6	3	100
BUEH 03U1	3/16	10-32UNF	12	16	21	3.5	19	23	5	2.5	50
BUEH 03N2		NPT1/8				8	19	27.5	6	3	50
BUEH 03N4		NPT1/4				11	25.5	31.5	8	7.5	50
BUEH 03N6		NPT3/8				12	26.5	32.5	10	10	50
BUEH 04N2	1/4	NPT1/8	12	16	21	3.5	18.5	26	6	3	50
BUEH 04N4		NPT1/4				8	23.5	30.5	8	7.5	50
BUEH 04N6		NPT3/8				11	25.5	34.5	10	10	50
BUEH 04N7		NPT1/2				12	26.5	35	12	12	50
BUEH 05N2	5/16	NPT1/8	14	17	25	8	26.5	30.5	6	3	50
BUEH 05N4		NPT1/4				11	28.5	34.5	8	7.5	50
BUEH 05N6		NPT3/8				12	29	35	10	10	50
BUEH 05N7		NPT1/2				15	30.5	39	12	12	50
BUEH 06N4	3/8	NPT1/4	17.5	20	29	11	31.5	37.5	8	7.5	25
BUEH 06N6		NPT3/8				12	32	38	10	10	25
BUEH 06N7		NPT1/2				15	33.5	42	12	12	25
BUEH 07N6	1/2	NPT3/8	21.5	22	34	12	36	42	10	10	20
BUEH 07N7		NPT1/2				15	37.5	46	12	12	20

BUS Bulkhead Union Straight

(Unit:mm)

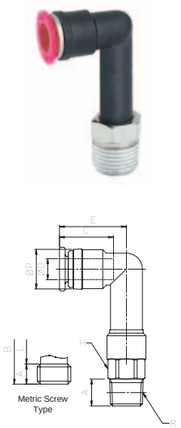
Parts No.	Tube O.D ⌀D	Metric Thread M	⌀P1	⌀P2	C1	C2	E (Min)	E (Max)	G	B	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BBUS 03M14	3/16	M14 X 1.0	12	18	16	16	1	9	5	36	17	5	50
BBUS 04M14	1/4	M14 X 1.0	12	18	16	16	1	9	5	36	17	5	50
BBUS 06M20	3/8	M20 X 1.0	17.5	28	20	20	1	10	6	43.5	24	8	25
BBUS 07M22	1/2	M22 X 1.0	21.5	31	22	22	1	16	6	47.5	27	10	20

BUE Bulkhead Union Elbow

(Unit:mm)

Parts No.	Tube O.D ⌀D	Metric Thread M	⌀P1	⌀P2	⌀P3	C1	C2	E	F	G	B	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BBUE 03M14	3/16	M14 X 1.0	12	12	18	16	16	21	15	5	38	17	5	50
BBUE 04M14	1/4	M14 X 1.0	12	12	18	16	16	21	15	5	38	17	5	50
BBUE 06M20	3/8	M20 X 1.0	17.5	17.5	28	20	20	29	18	6	48	24	8	25
BBUE 07M22	1/2	M22 X 1.0	21.5	21.5	31	22	22	34	20	6	54	27	10	20

EUB-L Elbow Union Branch-Long

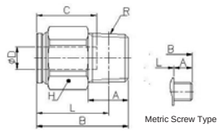


(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BEUB 0102L	5/32	PT1/8	8	36.5	37.5	10	14	17	10	2.5	100
BEUB 0104L		PT1/4	11	39.5	38.5				14	2.5	100
BEUB 0106L		PT3/8	12	40.5	39.5				17	2.5	100
BEUB 0402L	1/4	PT1/8	8	38	39	12	16	19	12	4	50
BEUB 0404L		PT1/4	11	41	42				14	4	50
BEUB 0406L		PT3/8	12	42	43				17	4	50
BEUB 0407L		PT1/2	15	45	46				22	4	50
BEUB 0502L	5/16	PT1/8	8	42.5	45.5	14	17	22	12	6	50
BEUB 0504L		PT1/4	11	45.5	48.5				14	6	50
BEUB 0506L		PT3/8	12	46.5	49.5				17	6	50
BEUB 0507L		PT1/2	15	49.5	52.5				22	6	50
BEUB 0602L	3/8	PT1/8	8	51	56	17.5	20	26	12	7	25
BEUB 0604L		PT1/4	11	54	59				14	7	25
BEUB 0606L		PT3/8	12	55	60				17	7	25
BEUB 0607L		PT1/2	15	58	63				22	7	25
BEUB 0704L	1/2	PT1/4	11	60.5	62.5	21.5	22	28	14	7.5	20
BEUB 0706L		PT3/8	12	61.5	63.5				17	9	20
BEUB 0707L		PT1/2	15	64.5	66.5				22	9	20

Parts No.	Tube O.D ⌀D	NPT Thread R	A	B	L	⌀P	C	E	Hex H	Orifice Dia. (⌀mm)	Qty (EA)
BEUB 01U1L	5/32	10-32UNF	5.5	34.5	35.5	10	14	17	10	2.5	100
BEUB 01N2L		NPT1/8	8	36	36				10	2.5	100
BEUB 01N4L		NPT1/4	11	39	40				14	2.5	100
BEUB 01N6L		NPT3/8	12	40	14				17	2.5	100
BEUB 03N2L	3/16	NPT1/8	8	39	39	12	16	19	12	2.5	50
BEUB 03N4L		NPT1/4	11	41	42				14	4	50
BEUB 03N6L		NPT3/8	12	42	43				17	4	50
BEUB 04U1L	1/4	10-32UNF	5.5	34	37.5	12	16	19	10	2.5	50
BEUB 04N2L		NPT1/8	8	39	39				12	4	50
BEUB 04N4L		NPT1/4	11	41	42				14	4	50
BEUB 04N6L		NPT3/8	12	42	43				17	4	50
BEUB 04N7L		NPT1/2	15	45	46				22	4	50
BEUB 05N2L	5/16	NPT1/8	8	42.5	45.5	14	17	22	12	6	50
BEUB 05N4L		NPT1/4	11	45.5	48.5				14	6	50
BEUB 05N6L		NPT3/8	12	46.5	49.5				17	6	50
BEUB 05N7L		NPT1/2	15	49.5	52.5				22	4	50
BEUB 06N2L	3/8	NPT1/8	8	51	56	17.5	20	26	12	7	25
BEUB 06N4L		NPT1/4	11	54	59				14	7	25
BEUB 06N6L		NPT3/8	12	55	60				17	7	25
BEUB 06N7L		NPT1/2	15	58	63				22	7	25
BEUB 07N4L	1/2	NPT1/4	11	60.5	62.5	21.5	22	28	14	7.5	20
BEUB 07N6L		NPT3/8	12	61.5	63.5				17	9	20
BEUB 07N7L		NPT1/2	15	64.5	66.5				22	9	20

MCH Male Connector for Hexagon



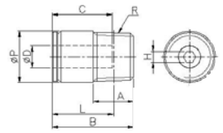
(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	C	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMCH 0102	5/32	PT1/8	8	20	16	13.5	12	2	100
BMCH 0104		PT1/4	11	20	14		12		100
BMCH 0106		PT3/8	12	20	13.5		12		100
BMCH 0302	3/16	PT1/8	8	22	18	16.5	14	4	50
BMCH 0304		PT1/4	11	25	19		14		50
BMCH 0306		PT3/8	12	26	19.5		14		50
BMCH 0402	1/4	PT1/8	8	22	18	16.5	14	4	50
BMCH 0404		PT1/4	11	25	19		14		50
BMCH 0406		PT3/8	12	26	19.5		14		50
BMCH 0407		PT1/2	15	29	21		17		50
BMCH 0502	5/16	PT1/8	8	27	23	17	17	6	50
BMCH 0504		PT1/4	11	25	19		17		50
BMCH 0506		PT3/8	12	26	19.5		17		50
BMCH 0507		PT1/2	15	29	21		22		50
BMCH 0602	3/8	PT1/8	8	29.5	25.5	19.5	17	7	25
BMCH 0604		PT1/4	11	32	26		17		25
BMCH 0606		PT3/8	12	27	20.5		19		25
BMCH 0607		PT1/2	15	30	22		22		25
BMCH 0702	1/2	PT1/8	8	33	29	23	22	8	20
BMCH 0704		PT1/4	11	36	30		22		20
BMCH 0706		PT3/8	12	37	30.5		22		20
BMCH 0707		PT1/2	15	33	25		22		20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	C	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMCH 01U1	5/32	10-32UNF	5	20	15	13.5	12	2	100
BMCH 01N2		NPT1/8	7	19	15		12		100
BMCH 01N4		NPT1/4	10.5	19.5	13.		14		100
BMCH 01N6		NPT3/8	10.5	18.5	17		17		100
BMCH 03U1	3/16	10-32UNF	5	20	15	13.5	12	4	50
BMCH 03N2		NPT1/8	7	19	15		12		50
BMCH 03N4		NPT1/4	10.5	19.5	13.5		14		50
BMCH 03N6		NPT3/8	10.5	18.5	12		17		50
BMCH 04U1	1/4	10-32UNF	5	22.5	17.5	16.5	14	4	50
BMCH 04N2		NPT1/8	7	21	17		14		50
BMCH 04N4		NPT1/4	10.5	24.5	18.5		14		50
BMCH 04N6		NPT3/8	10.5	14.5	18		17		50
BMCH 04N7		NPT1/2	14	28	17		22		50
BMCH 05N2	5/16	NPT1/8	7	26	22	17	17	6	50
BMCH 05N4		NPT1/4	10.5	24.5	18.5		17		50
BMCH 05N6		NPT3/8	10.5	24.5	18		17		50
BMCH 05N7		NPT1/2	14	28	20		22		50
BMCH 06N2	3/8	NPT1/8	7	28.5	25.5	19.5	17	7	25
BMCH 06N4		NPT1/4	10.5	21.5	25.5		17		25
BMCH 06N6		NPT3/8	10.5	25.5	19		19		25
BMCH 06N7		NPT1/2	14	29	21		22		25
BMCH 07N2	1/2	NPT1/8	7	35.5	29.5	23	22	8	20
BMCH 07N4		NPT1/4	10.5	35.5	29.5		22		20
BMCH 07N6		NPT3/8	10.5	35.5	29		22		20
BMCH 07N7		NPT1/2	14	32	24		22		20

● Due to Hexagon type hole, Easy screwing available by the Wrench eventhough in no much space for the Spanner

MCR Male Connector for ciRcle



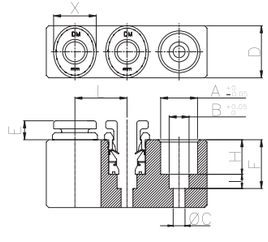
(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	øP	C	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMCR 0402	1/4	PT1/8	8	24	20	12	15.5	4	4	50
BMCR 0404		PT1/4	11	24	18	14		4	4	50
BMCR 0406		PT3/8	12	24	25	17		4	4	50
BMCR 0504	5/16	PT1/4	11	28	22	14	16.5	6	6	50
BMCR 0506		PT3/8	12	27	21	17		6	6	50
BMCR 0604	1/2	PT1/4	11	34	28	17	19.5	6	6	25
BMCR 0606		PT3/8	12	34	29	22		8	8	25
BMCR 0607		PT1/2	15	34	21	22		8	8	25

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	øP	C	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BMCR 01U1	5/32	10-32UNF	5.5	21	16	10	13.5	2.5	2.5	100
BMCR 01N2		NPT1/8	8	21	17	10		2.5	2.5	100
BMCR 01N4		NPT1/4	11	24	17	10		2.5	2.5	100
BMCR 01N6		NPT3/8	12	25	18	10		2.5	2.5	100
BMCR 03U1	3/16	10-32UNF	5.5	23	18	12	15.5	2.5	2.5	50
BMCR 03N2		NPT1/8	8	24	20	12		4	4	50
BMCR 03N4		NPT1/4	11	24	18	14		4	4	50
BMCR 04U1	1/4	10-32UNF	5.5	23	18	12	15.5	2.5	2.5	50
BMCR 04N2		NPT1/8	8	24	20	12		4	4	50
BMCR 04N4		NPT1/4	11	24	18	14		4	4	50
BMCR 05N2	5/16	NPT1/8	8	27	25	14	16.5	6	6	50
BMCR 05N4		NPT1/4	11	28	22	14		6	6	50
BMCR 05N6		NPT3/8	12	27	21	17		6	6	50
BMCR 06N2	3/8	NPT1/8	8	31	27	17	19.5	6	6	25
BMCR 06N4		NPT1/4	11	34	28	17		6	6	25
BMCR 06N6		NPT3/8	12	29	22	17		6	6	25
BMCR 06N7		NPT1/2	15	29	21	22		6	6	25
BMCR 07N4	1/2	NPT1/4	11	36	30	21	21	6	6	20
BMCR 07N6		NPT3/8	12	33	27	21		8	8	20
BMCR 07N7		NPT1/2	15	34	26	21		8	8	20

● Due to Hexagon type hole, Easy screwing available by the Wrench eventhough in no much space for the Spanner

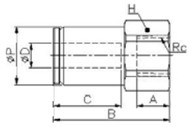
CT Cartridge



(Unit:mm)

Parts No.	Tube O.D ø D	L	A	B	øC	E	F	H	I	X	Qty (EA)
BCT 01	5/32	11	8	4.2	2.5	4	10.8	7.3	3.5	11	100
BCT 04	1/4	13	10	6.2	4	4.1	11.9	7.9	4	13	100
BCT 05	5/16	15	12	8.2	6	5.4	12.5	8	4.5	16	100
BCT 06	3/8	18	15	10.2	8	5.4	14.6	9.6	5	19	100
BCT 07	1/2	22	18	12.2	10	5.4	16.1	11.1	5	23	100

FAS Female Adapter Straight

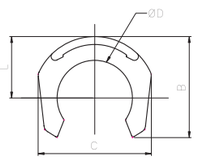


(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread Rc	A	B	C	ØP	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFAS 0102	5/32	PT1/8	24	24	13.5	12	14	2	100
BFAS 0104		PT1/4	28.5	28.5			17		100
BFAS 0106		PT3/8	30.5	30.5			22		100
BFAS 0302	3/16	PT1/8	26	26	16.5	14	14	4	50
BFAS 0304		PT1/4	31	31			17		50
BFAS 0402	1/4	PT1/8	26	26	16.5	14	14	4	50
BFAS 0404		PT1/4	31	31			17		50
BFAS 0406		PT3/8	33.5	33.5			22		50
BFAS 0502	5/16	PT1/8	27	27	17	16	17	6	50
BFAS 0504		PT1/4	31.5	31.5			17		50
BFAS 0506		PT3/8	33.5	33.5			22		50
BFAS 0507		PT1/2	37.5	37.5			24		50
BFAS 0602	3/8	PT1/8	34	34	20	19	19	7	25
BFAS 0604		PT1/4	34	34			19		25
BFAS 0606		PT3/8	36	36		20	22		25
BFAS 0607		PT1/2	40	40			24		25
BFAS 0704	1/2	PT1/4	37	37	23	22	22	8	20
BFAS 0706		PT3/8	39	39			22		20
BFAS 0707		PT1/2	43	43			24		20

Parts No.	Tube O.D ØD	NPT Thread Rc	A	B	C	ØP	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BFAS 01N2	5/32	NPT1/8	7	23	13.5	12	14	2	100
BFAS 01N4		NPT1/4	10.5	28			17		100
BFAS 01N6		NPT3/8	10.5	29			22		100
BFAS 03N2	3/16	NPT1/8	7	25	16.5	14	14	4	50
BFAS 03N4		NPT1/4	10.5	30.5			17		50
BFAS 04N2	1/4	NPT1/8	7	25	16.5	14	14	4	50
BFAS 04N4		NPT1/4	10.5	30.5			17		50
BFAS 04N6		NPT3/8	10.5	32			22		50
BFAS 05N2	5/16	NPT1/8	7	26	17	16	17	6	50
BFAS 05N4		NPT1/4	10.5	31			17		50
BFAS 05N6		NPT3/8	10.5	32			22		50
BFAS 05N7		NPT1/2	14	36.5			24		50
BFAS 06N2	3/8	NPT1/8	7	33.5	20	19	19	7	25
BFAS 06N4		NPT1/4	10.5	33.5			19		25
BFAS 06N6		NPT3/8	10.5	34.5		20	22		25
BFAS 06N7		NPT1/2	14	39			24		25
BFAS 07N4	1/2	NPT1/4	10.5	36.5	23	22	22	8	20
BFAS 07N6		NPT3/8	10.5	37.5			22		20
BFAS 07N7		NPT1/2	14	42			24		20

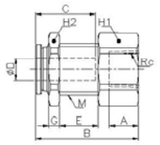
LC Locking Clip



(Unit:mm)

Parts No.	Tube O.D ØD	A	B	C	T	Qty (EA)
BLC 01	5/32	5.5	8.5	10.5	0.8	100
BLC 04	1/4	6.7	10.7	12	0.9	100
BLC 05	5/16	7.7	12.6	14.5	1.3	100
BLC 06	3/8	9.5	15.2	14.5	1.3	100
BLC 07	1/2	11	17.5	18.5	1.4	100

FBS Female Bulkhead Straight



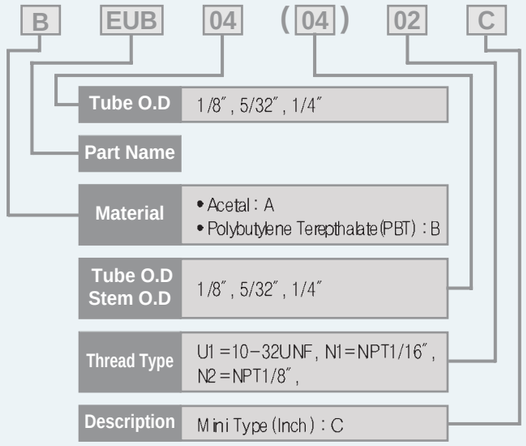
(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread Rc	Metric Thread M	G	A	B	C	E	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BFBS 0102M12	5/32	PT1/8	M12X1.0	4	8	24	13.5	6	14	14	2.5	100
BFBS 0104M12		PT1/4			11	28.5						100
BFBS 0106M12		PT3/8			12	30.5						100
BFBS 0302M12	3/16	PT1/8	M14X1.0	4	8	26	16.5	7.5	17	17	4	50
BFBS 0304M12		PT1/4			11	31						50
BFBS 0402M14	1/4	PT1/8	M14X1.0	4	8	26	16.5	7.5	17	17	4	50
BFBS 0404M14		PT1/4			11	31						50
BFBS 0406M14		PT3/8			12	33.5		9				50
BFBS 0502M16	5/16	PT1/8	M16X1.0	4	8	27	17	11	19	19	6	50
BFBS 0504M16		PT1/4			11	31.5						50
BFBS 0506M16		PT3/8			12	33.5						50
BFBS 0507M16		PT1/2			15	37.5						25
BFBS 0604M20	3/8	PT1/4	M20X1.0	5	11	34	19.5	10	24	24	7	25
BFBS 0606M20		PT3/8			12	36						25
BFBS 0607M20		PT1/2			15	40						25
BFBS 0704M22	1/2	PT1/4	M22X1.0	6	11	37	23	11.5	24	24	8	20
BFBS 0706M22		PT3/8			12	39						20
BFBS 0707M22		PT1/2			15	43						20

Parts No.	Tube O.D ØD	NPT Thread Rc	Metric Thread M	G	A	B	C	E	Hex H1	Hex H2	Orifice Dia. (Ømm)	Qty (EA)
BFBS 01N2M12	5/32	NPT1/8	M12X1.0	4	7	23	13.5	6	14	14	2.5	100
BFBS 01N4M12		NPT1/4			10.5	28						100
BFBS 01N6M12		NPT3/8			10.5	29						100
BFBS 03N2M12	3/16	NPT1/8	M14X1.0	4	7	25	16.5	7.5	17	17	4	50
BFBS 03N4M12		NPT1/4			10.5	30.5						50
BFBS 04N2M14	1/4	NPT1/8	M14X1.0	4	7	25	16.5	7.5	17	17	4	50
BFBS 04N4M14		NPT1/4			10.5	30.5						50
BFBS 04N6M14		NPT3/8			10.5	31		9				50
BFBS 05N2M16	5/16	NPT1/8	M16X1.0	4	7	26	17	11	19	19	6	50
BFBS 05N4M16		NPT1/4			10.5	31						50
BFBS 05N6M16		NPT3/8			10.5	32						50
BFBS 05N7M16		NPT1/2			14	35.5						50
BFBS 06N4M20	3/8	NPT1/4	M20X1.0	5	10.5	33.5	19.5	10	24	24	7	25
BFBS 06N6M20		NPT3/8			10.5	34.5						25
BFBS 06N7M20		NPT1/2			14	38						25
BFBS 07N4M22	1/2	NPT1/4	M22X1.0	6	10.5	36.5	11.5	10	24	24	8	20
BFBS 07N6M22		NPT3/8			10.5	37.5						20
BFBS 07N7M22		NPT1/2			14	42						20

MINI FITTINGS

ORDER INFORMATION



Usages

- These products are extra small, one-touch type fittings used for small size air pressure piping and other similar devices.
- Each product comes with diverse functions and dimensions so that they are widely applicable to all piping situations.

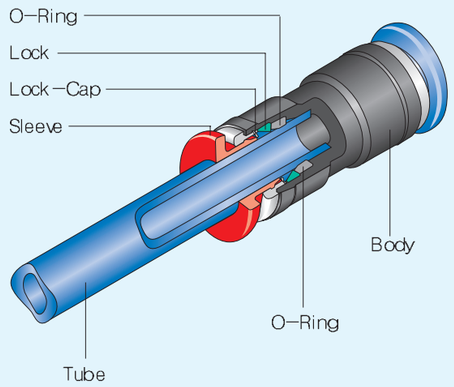
Features

- These mini fittings of one-touch type for air pressure piping have only 40% volume compared to standard fittings, thus successfully miniaturizing the fittings.
- Since these fittings are small and light, they have excellent applicability in various pneumatic piping situations and instructional devices.
- Nickel surface plating presents excellent anti-corrosion performance.

Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	-750mmHg(10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

Diagram



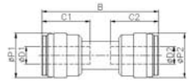
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- Ensure that the tube and O-ring are fully assembled.
- Upon tube assembly, pull tube out to ensure that the assembly has been done properly.

⚠ Warning

- In case the fluid used is water, please verify product specification for water before using products.

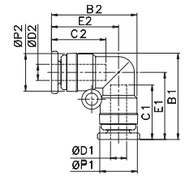
UC Union Connector



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	ø P1	ø P2	C1	C2	B	Qty (EA)
BUC 1/8-1/8C	1/8	1/8	6.5	6.5	10	10	20.5	100
BUC 5/32-1/8C	5/32	1/8	8.5	6.5	11.5	10	21	100
BUC 5/32-5/32C	5/32	5/32	8.5	8.5	11.5	11.5	23.5	100
BUC 1/4-1/4C	1/4	1/4	11	11	13.5	13.5	26.5	100

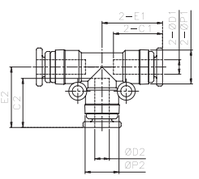
EU Elbow Union



(Unit:mm)

Parts No.	Tube O.D ø D	ø P1	ø P2	C1	C2	E1	E2	B	Qty (EA)
BEU 1/8-1/8C	1/8	6.5	6.5	10	10	12	12	15.5	100
BEU 5/32-5/32C	5/32	8.5	8.5	11.5	11.5	14	14	18.5	100
BEU 1/4-1/4C	1/4	10.5	10.5	13	13	17	17	22.5	100

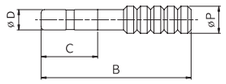
TU Tee Union



(Unit:mm)

Parts No.	Tube O.D ø D	ø P1	ø P2	C1	C2	E1	E2	Qty (EA)
BTU 1/8-1/8C	1/8	6.5	6.5	10	10	12	12	100
BTU 5/32-5/32C	5/32	8.5	8.5	11.5	11.5	14	14	100
BTU 1/4-1/4C	1/4	10.5	10.5	13	13	17	17	100

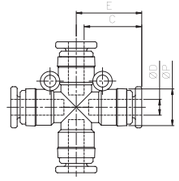
PL PLug



(Unit:mm)

Parts No.	Stem O.D ø D	C	B	ø P	Qty (EA)
BPL 1/8C	1/8	10	22	4	100
BPL 5/32C	5/32	11.5	27	5	100
BPL 1/4C	1/4	13	32	7	100

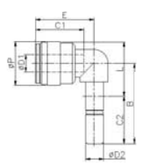
CRS CRosS



(Unit:mm)

Parts No.	Tube O.D ø D	ø P	C	E	Qty (EA)
BCRS 1/8-1/8C	1/8	6.5	10	12	100
BCRS 5/32-5/32C	5/32	8.5	11.5	14	100
BCRS 1/4-1/4C	1/4	10.5	13	17	100

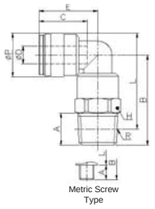
TEU Tube Elbow Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Stem O.D ø D2	B	L	ø P	C1	C2	E	Qty (EA)
BTEU 1/8-1/8C	1/8	1/8	19.8	13.2	9	10	10	12	100
BTEU 5/32-5/32C	5/32	5/32	22	14.8	9	11.5	11.5	14	100
BTEU 1/4-1/4C	1/4	1/4	25	17.3	9	12	13	17	100

EUB Elbow Union Branch

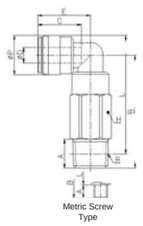


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	E	Hex H	Qty (EA)
BEUB 1/8-M3C	1/8	M3X0.5	3	12.5	12.5	3.5	13	12.5	6	100
BEUB 1/8-M5C		M5X0.8	3.5	13	12.5				8	100
BEUB 1/8-M6C		M6X1.0	4.5	14	12.5				8	100
BEUB 5/32-M3C	5/32	M3X0.5	3	13.2	14.5	3.5	13.7	14.5	8	100
BEUB 5/32-M5C		M5X0.8	3.5	13.7	14.5				8	100
BEUB 5/32-M6C		M6X1.0	4.5	14.7	14.5				8	100
BEUB 5/32- 02C		PT1/8	8	16.2	16.5				10	100
BEUB 1/4-M5C	1/4	M5X0.8	3.5	14.5	16.5	4.5	15.5	16.5	8	100
BEUB 1/4-M6C		M6X1.0	4.5	15.5	16.5				8	100
BEUB 1/4-02C		PT1/8	8	17	18.5				10	100

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	ø P	C	E	Hex H	Qty (EA)
BEUB 1/8-U1C	1/8	10-32UNF	3.5	12	12.5	6.5	10	12	6	100
BEUB 1/8-N1C		NPT1/16	7.5	13	12.5				8	100
BEUB 1/8-N2C		NPT1/8	8	14	12.5				8	100
BEUB 5/32-U1C	5/32	10-32UNF	3.5	12.5	14.5	8.5	11.5	14	8	100
BEUB 5/32-N1C		NPT1/16	7.5	14.5	14.5				8	100
BEUB 5/32-N2C		NPT1/8	8	16.2	16.5				10	100
BEUB 1/4-U1C	1/4	10-32UNF	3.5	14.5	16.5	10.5	13	17	8	100
BEUB 1/4-N1C		NPT1/16	7.5	15.5	16.5				8	100
BEUB 1/4-N2C		NPT1/8	8	17	18.5				10	100

ELB Elbow union Long Branch

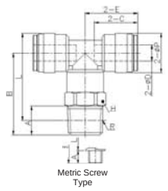


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	ø P	C	E	Hex H	Qty (EA)
BELB 1/8-M3C	1/8	M3X0.5	3	12.5	12.5	6.5	10	12	6	100
BELB 1/8-M5C		M5X0.8	3.5	13	12.5				8	100
BELB 1/8-M6C		M6X1.0	4.5	14	12.5				8	100
BELB 5/32-M3C	5/32	M3X0.5	3	13.2	14.5	8.5	11.5	14	8	100
BELB 5/32-M5C		M5X0.8	3.5	13.7	14.5				8	100
BELB 5/32-M6C		M6X1.0	4.5	14.7	14.5				8	100
BELB 5/32-02C		PT1/8	8	16.2	16.5				10	100
BELB 1/4-M5C	1/4	M5X0.8	3.5	14.5	16.5	10.5	13	17	8	100
BELB 1/4-M6C		M6X1.0	4.5	15.5	16.5				8	100
BELB 1/4-02C		PT1/8	8	17	18.5				10	100

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	ø P	C	E	Hex H	Qty (EA)
BELB 1/8-U1C	1/8	10-32UNF	3.5	12	12.5	6.5	10	12	6	100
BELB 1/8-N1C		NPT1/16	7.5	14	12.5				8	100
BELB 1/8-N2C		NPT1/8	8	16.5	12.5				8	100
BELB 5/32-U1C	5/32	10-32UNF	3.5	13	14.5	8.5	11.5	14	8	100
BELB 5/32-N1C		NPT1/16	7.5	14.5	14.5				8	100
BELB 5/32-N2C		NPT1/8	8	16	16.5				10	100
BELB 1/4-U1C	1/4	10-32UNF	3.5	14.5	10.5	10.5	13	17	8	100
BELB 1/4-N1C		NPT1/16	7.5	15.5	10.5				8	100
BELB 1/4-N2C		NPT1/8	8	17	10.5				10	100

MTB Male Tee swivel Branch

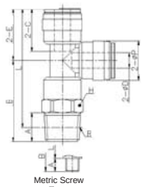


(Unit:mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	∅P	C	E	Hex H	Qty (EA)
BMTB 1/8-M3C	1/8	M3x0.5	3	12.2	9.2	6.5	10	12	6	100
BMTB 1/8-M5C		M5x0.8	3.5	12.7	9.2				8	100
BMTB 1/8-M6C		M6x1.0	4.5	13.7	9.2				8	100
BMTB 5/32-M3C	5/32	M3x0.5	3	18	15	8.5	11.5	14	8	100
BMTB 5/32-M5C		M5x0.8	3.5	18.5	15				8	100
BMTB 5/32-M6C		M6x1.0	4.5	19.5	15				10	100
BMTB 5/32-02C		PT1/8	8	21	17				10	100
BMTB 1/4-M5C	1/4	M5x0.8	3.5	15	11.5	10.5	13	17	8	100
BMTB 1/4-M6C		M6x1.0	4.5	16	11.5				8	100
BMTB 1/4-02C		PT1/8	8	17.5	13.5				10	100

Parts No.	Tube O.D ∅D	NPT Thread R	A	B	L	∅P	C	E	Hex H	Qty (EA)
BMTB 1/8-U1C	1/8	10-32UNF	3.5	12.5	9.5	6.5	10	12	6	100
BMTB 1/8-N1C		NPT1/16	7.5	14.5	9.5				8	100
BMTB 1/8-N2C		NPT1/8	8	15	9.5				8	100
BMTB 5/32-U1C	5/32	10-32UNF	3.5	18.5	15	8.5	11.5	14	8	100
BMTB 5/32-N1C		NPT1/16	7.5	20.5	15				10	100
BMTB 5/32-N2C		NPT1/8	8	21	17				10	100
BMTB 1/4-U1C	1/4	10-32UNF	3.5	15	11.5	10.5	13	17	8	100
BMTB 1/4-N1C		NPT1/16	7.5	17	11.5				8	100
BMTB 1/4-N2C		NPT1/8	8	17.5	13.5				10	100

MRB Male Run swivel Branch

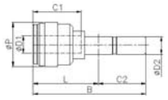


(Unit:mm)

Parts No.	Tube O.D ∅D	PT Thread R	A	B	L	∅P	C	E	Hex H	Qty (EA)
BMRB 1/8-M3C	1/8	M3X0.5	3	12.2	9.2	6.5	10	12	6	100
BMRB 1/8-M5C		M5X0.8	3.5	12.7	9.2				8	100
BMRB 1/8-M6C		M6X1.0	4.5	13.7	6.2				8	100
BMRB 5/32-M3C	5/32	M3X0.5	3	18	15	8.5	11.5	14	8	100
BMRB 5/32-M5C		M5X0.8	3.5	18.5	15				8	100
BMRB 5/32-M6C		M6X1.0	4.5	19.5	15				8	100
BMRB 5/32-02C		PT1/8	8	21	17				10	100
BMRB 1/4-M5C	1/4	M5X0.8	3.5	15	11.5	10.5	13	17	10	100
BMRB 1/4-M6C		M6X1.0	4.5	16	11.5				8	100
BMRB 1/4-02C		PT1/8	8	17.5	13.5				10	100

Parts No.	Tube O.D ∅D	NPT Thread R	A	B	L	∅P	C	E	Hex H	Qty (EA)
BMRB 1/8-U1C	1/8	10-32UNF	3.5	12.5	9.5	6.5	10	12	6	100
BMRB 1/8-N1C		NPT1/16	7.5	14.5	9.5				8	100
BMRB 1/8-N2C		NPT1/8	8	15	9.5				8	100
BMRB 5/32-U1C	5/32	10-32UNF	3.5	18.5	15	8.5	11.5	14	8	100
BMRB 5/32-N1C		NPT1/16	7.5	20.5	15				10	100
BMRB 5/32-N2C		NPT1/8	8	21	17				10	100
BMRB 1/4-U1C	1/4	10-32UNF	3.5	15	11.5	10.5	13	17	8	100
BMRB 1/4-N1C		NPT1/16	7.5	17	11.5				8	100
BMRB 1/4-N2C		NPT1/8	8	17.5	13.5				10	100

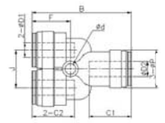
RD ReDucer



(Unit:mm)

Parts No.	Tube O.D ∅ D1	Stem O.D ∅D2	B	∅P2	∅P1	C1	C2	Qty (EA)
BRD 1/8-5/32C	1/8	5/32	29	17.5	6.5	10	11.5	100
BRD 5/32-1/4C	5/32	1/4	32.5	19.5	8.5	11.5	13	100

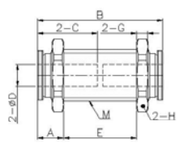
TD Two way Divider



(Unit:mm)

Parts No.	Tube O.D ∅ D1	Tube O.D ∅D2	B	∅P	C1	C2	∅d	F	J	Qty (EA)
BTD 1/8-1/8C	1/8	1/8	26	6.5	6.5	6.5	3.2	7.5	6.5	100
BTD 5/32-1/8C	5/32	1/8	24.5	8.5	7	6.5	3.2	7.5	6.5	100
BTD 5/32-5/32C		5/32	25.5	8.5	7	7	3.2	8	8.5	100
BTD 1/4-5/32C	1/4	5/32	27.5	10.5	8	7	3.2	8	8.5	100
BTD 1/4-1/4C		1/4	29	10.5	8	8	3.2	8.5	11	100

BKU BulKhead Union

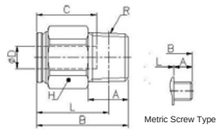


(Unit:mm)

Parts No.	Tube O.D ∅D	Metric Thread M	G	A	B	C	E	Hex H	Qty (EA)
BBKU 1/8-M8C	1/8	M8x1	3	7	29.5	10	4.5	10	100

MINI FITTINGS

MCH Male Connector for Hexagon

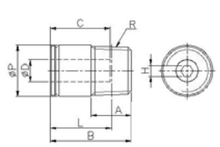


(Unit : mm)

Parts No.	Tube O.D ϕD	NPT Thread R	A	B	L	C	Hex H	Qty (EA)
BMCH 1/8-M3	1/8	M3X0.5	3	13.6	10.5	10	6	100
BMCH 1/8-M5C		M5X0.8	3.5	15.5	10.5		8	100
BMCH 1/8-M6C		M6X1.0	4.5	16.5	10.5		8	100
BMCH 5/32-M3C	5/32	M3X0.5	3	15	12	11.5	8	100
BMCH 5/32-M5C		M5X0.8	3.5	15.5	12		8	100
BMCH 5/32-M6C		M6X1.0	4.5	16.5	12		8	100
BMCH 5/32-02C		NPT1/8	8	15	11		10	100
BMCH 1/4-M5C	1/4	M5X0.8	3.5	17.5	14	13	10	100
BMCH 1/4-M6C		M6X1.0	4.5	18.5	14		10	100
BMCH 1/4-02C		NPT1/8	8	18	14		10	100

●Due to Hexagon type hole, Easy screwing available by the Wrench eventhough in no much space for the Spanner

MCR Male Connector for ciRcle



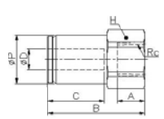
(Unit : mm)

Parts No.	Tube O.D ϕD	PT Thread R	A	B	L	ϕP	C	Hex H	Qty (EA)
BMCR 1/8-M3C	1/8	M3x0.5	3	13.6	10.5	6	10	1.5	100
BMCR 1/8-M5C		M5x0.8	3.5	15.5	10.5	8		2	100
BMCR 1/8-M6C		M6x1.0	4.5	16.5	10.5	8		2	100
BMCR 5/32-M3C	5/32	M3x0.5	3	15	12	8	11.5	1.5	100
BMCR 5/32-M5C		M5x0.8	3.5	15.5	12	8		2	100
BMCR 5/32-M6C		M6x1.0	4.5	16.5	12	8		2	100
BMCR 5/32-02C		PT1/8	8	15	11	10		2	100
BMCR 1/4-M5C	1/4	M5x0.8	3.5	17.5	14	10	13	2	100
BMCR 1/4-M6C		M6x1.0	4.5	18.5	14	10		2	100
BMCR 1/4-02C		PT1/8	8	18	14	10		4	100

Parts No.	Tube O.D ϕD	NPT Thread R	A	B	L	ϕP	C	Hex H	Qty (EA)
BMCH 1/8-U1C	1/8	10-32UNF	3.5	15.5	10.5	8	10	1.5	100
BMCH 1/8-N1C		NPT1/16	7.5	15.5				2	100
BMCH 1/8-N2C		NPT1/8	8	16				2	100
BMCH 5/32-U1C	5/32	10-32UNF	3.5	15.5	12	8	11.5	1.5	100
BMCH 5/32-N1C		NPT1/16	7.5	14.5				2	100
BMCH 5/32-N2C		NPT1/8	8	15				2	100
BMCH 1/4-U1C	1/4	10-32UNF	3.5	17.5	14	10	13	2	100
BMCH 1/4-N1C		NPT1/16	7.5	17.5				2	100
BMCH 1/4-N2C		NPT1/8	8	18				4	100

●Due to Hexagon type hole, Easy screwing available by the Wrench eventhough in no much space for the Spanner

FAS Female Adapter Straight



(Unit : mm)

Parts No.	Tube O.D ϕD	PT Thread R	A	B	ϕP	C	Hex H	Qty (EA)
BFAS 1/8-M3C	1/8	M3X0.5	3.5	15.5	8	10	8	100
BFAS 1/8-M5C		M5X0.8	5	16.5				100
BFAS 5/32-M3C	5/32	M3X0.5	3.5	15.5	8	11.5	8	100
BFAS 5/32-M5C		M5X0.8	5	17.5				100

Parts No.	Tube O.D ϕD	NPT Thread R	A	B	ϕP	C	Hex H	Qty (EA)
BFAS 1/8-U1C	1/8	10-32UNF	5	16.5	8	10	8	100
BFAS 1/8-N1C		NPT1/16	8.5	18				100
BFAS 5/32-U1C	5/32	10-32UNF	5	17.5	8	11.5	8	100
BFAS 5/32-N1C		NPT1/16	8.5	19				100

SPEED CONTROL VALVES

Usages

- These valves are used for flow control of air pressure driving devices.
- These valves can be useful for control and operation of cylinders and other devices in a confined space.

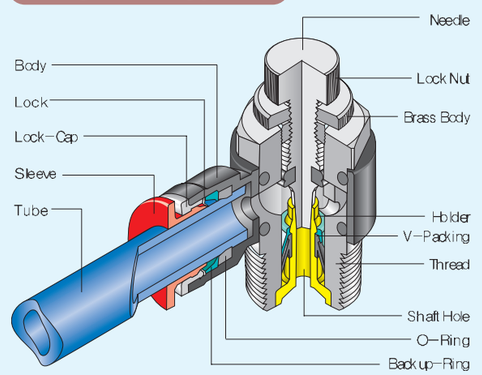
Features

- Flow control is possible from low volume to large volume.
- Valve configuration and dimensions are uniform for different valve openings so that they facilitate applications in diverse circumstances.
- Same flow rate can be achieved regardless of valve size.
- Control modes (Meter In or Out) are indicated as A or B on needle area.

Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg (10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

Diagram (Type A)



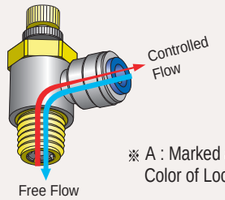
※ Type B: Holder and V-Packing are assembled in opposite way of Type A.

ORDER INFORMATION

B CUE 06 (04) 06 - (BK)

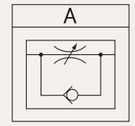
Tube O.D	01=5/32", 03=3/16", 04=1/4", 05=5/16", 06=3/8", 07=1/2"
Part Name	
Material	●Acetal : A ●Polybutylene Terepthalate(PBT) : B
Tube O.D Stem O.D	01=5/32", 03=3/16", 04=1/4", 05=5/16", 06=3/8", 07=1/2"
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8", 07=PT1/2" U1=10-32UNF N2=NPT1/8", N4=NPT1/4", N6=NPT3/8", N7=NPT1/2"
Stem O.D	01=5/32", 03=3/16", 04=1/4", 05=5/16", 06=3/8", 07=1/2"
Body Color	●Black : BK

Flow controller Labeling

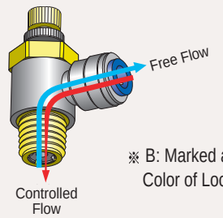


1)Meter-Out Control

Air inflow through screw section is controlled but the air that enters through the fitting is not controlled and allowed to flow through the screw section.

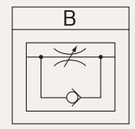


※ A : Marked as 'A' in needle area.
Color of Lock Nut : Silver



2)Meter-In Control

Air that enters through Fitting is controlled but the air that enters through the screw is not controlled and allowed to flow through the fitting.



※ B: Marked as 'A' in needle area.
Color of Lock Nut : Gold

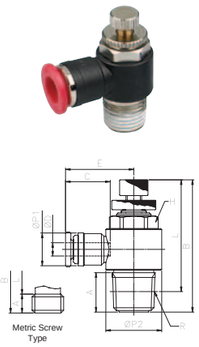
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- If needle is used in rough manner, it can be separated from the main body.
- These valves may have minute amounts of air leak. Do not use these products where required air leak is zero.

⚠ Warning

- Verify product features and circuit diagram and ensure that air control direction has been set right before using product.
- When controlling speed of a driving device, slowly open the valve from needle fully closed condition and apply control.
- Do not forcibly drive or rotate the product where the main body itself rotates.

CUE-A Control Universal Elbow A Type



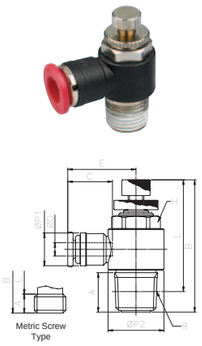
(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L	E	C	⌀P1	⌀P2	Hex H	Qty (EA)
BCUE 01M5A	5/32	M5X0.8	3.5	28.5	25	17	14	10	11.5	8	50
BCUE 0102A		PT1/8	8	34	30	19			14	10	50
BCUE 0104A		PT1/4	12	41	35	20			17.5	14	50
BCUE 04M5A	1/4	M5X0.8	3.5	28.5	25	18	16	12	11.5	8	50
BCUE 0402A		PT1/8	8	34	30	20			14	10	50
BCUE 0404A		PT1/4	12	41	35	21			17.5	14	50
BCUE 0406A		PT3/8	12	44	37.5	23			21	17	50
BCUE 0502A	5/16	PT1/8	8	34	30	23	17	14	14	10	25
BCUE 0504A		PT1/4	12	41	35	25			17.5	14	25
BCUE 0506A		PT3/8	12	44	37.5	26			21	17	25
BCUE 0507A		PT1/2	15	50	41.5	29			26	22	25
BCUE 0604A	3/8	PT1/4	12	41	35	28	20	17.5	17.5	14	20
BCUE 0606A		PT3/8	12	44	37.5	29			21	17	20
BCUE 0607A		PT1/2	15	50	41.5	32			26	22	20
BCUE 0706A	1/2	PT3/8	12	44	37.5	31	24	21.5	21	17	20
BCUE 0707A		PT1/2	15	50	41.5	34			26	22	20

Parts No.	Tube O.D ⌀D	NPT Thread R	A	B	L	E	C	⌀P1	⌀P2	Hex H	Qty (EA)
BCUE 01U1A	5/32	10-32UNF	3.5	28.5	25	17	14	10	11.5	8	50
BCUE 01N2A		NPT1/8	3.5	38.5	30	19			14	10	50
BCUE 01N4A		NPT1/4	7	46	35	20			17.5	14	50
BCUE 03U1A	3/16	10-32UNF	3.5	28.5	25	18	16	12	11.5	8	50
BCUE 03N2A		NPT1/8	3.5	37.5	30	20			14	10	50
BCUE 03N4A		NPT1/4	7	46	35	2			17.5	14	50
BCUE 03N6A		NPT3/8	10	46	37.5	23			21	17	50
BCUE 04U1A	1/4	10-32UNF	3.5	28.5	25	18	16	12	11.5	8	50
BCUE 04N2A		NPT1/8	7	37.5	30	20			14	10	50
BCUE 04N4A		NPT1/4	10	46	35	2			17.5	14	50
BCUE 04N6A		NPT3/8	12.5	46	37.5	23			21	17	50
BCUE 05N2A	5/16	NPT1/8	7	35	30	23	17	14	14	10	25
BCUE 05N4A		NPT1/4	10	43	35	25			17.5	14	25
BCUE 05N6A		NPT3/8	12.5	43.5	37.5	26			21	17	25
BCUE 05N7A		NPT1/2	15.5	49.5	41.5	29			26	24	25
BCUE 06N4A	3/8	NPT1/4	10	43	35	28	20	17.5	17.5	14	20
BCUE 06N6A		NPT3/8	12.5	43.5	37.5	29			21	17	20
BCUE 06N7A		NPT1/2	15.5	49.5	41.5	32			26	24	20
BCUE 07N6A	1/2	NPT3/8	12.5	43.5	37.5	31	24	21.5	21	17	20
BCUE 07N7A		NPT1/2	15.5	49.5	41.5	34			26	24	20

● Use a silver plated Lock Nut with 'A' inscribed on top of Handle. (Check valve automatic pressure: 0.5kgf/Cm²)

CUE-B Control Universal Elbow B Type



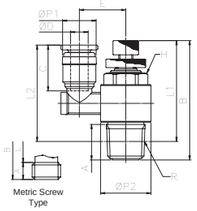
(Unit:mm)

Parts No.	Tube O.D ⌀D	PT Thread R	A	B	L	E	C	⌀P1	⌀P2	Hex H	Qty (EA)
BCUE 01M5B	5/32	M5x0.8	3.5	28.5	25	17	14	10	11.5	8	50
BCUE 0102B		PT1/8	8	34	30	19			14	10	50
BCUE 0104B		PT1/4	12	41	35	20			17.5	14	50
BCUE 04M5B	1/4	M5x0.8	3.5	28.5	25	18	16	12	11.5	8	50
BCUE 0402B		PT1/8	8	34	30	20			14	10	50
BCUE 0404B		PT1/4	12	41	35	21			17.5	14	50
BCUE 0406B		PT3/8	12	44	37.5	23			21	17	50
BCUE 0502B	5/16	PT1/8	8	34	30	23	17	14	14	10	25
BCUE 0504B		PT1/4	12	41	35	25			17.5	14	25
BCUE 0506B		PT3/8	12	44	37.5	26			21	17	25
BCUE 0507B		PT1/2	15	50	41.5	29			26	22	25
BCUE 0604B	3/8	PT1/4	12	41	35	28	20	17.5	17.5	14	20
BCUE 0606B		PT3/8	12	44	37.5	29			21	17	20
BCUE 0607B		PT1/2	15	50	41.5	32			26	22	20
BCUE 0706B	1/2	PT3/8	12	44	37.5	31	24	21.5	21	17	20
BCUE 0707B		PT1/2	15	50	41.5	34			26	22	20

Parts No.	Tube O.D ⌀D	NPT Thread R	A	B	L	E	C	⌀P1	⌀P2	Hex H	Qty (EA)
BCUE 01U1B	5/32	10-32UNF	3.5	28.5	25	17	14	10	11.5	8	50
BCUE 01N2B		NPT1/8	3.5	38.5	30	19			14	10	50
BCUE 01N4B		NPT1/4	7	46	35	20			17.5	14	50
BCUE 03U1B	3/16	10-32UNF	3.5	28.5	25	18	16	12	11.5	8	50
BCUE 03N2B		NPT1/8	3.5	37.5	30	20			14	10	50
BCUE 03N4B		NPT1/4	7	46	35	2			17.5	14	50
BCUE 03N6B		NPT3/8	10	46	37.5	23			21	17	50
BCUE 04U1B	1/4	10-32UNF	3.5	28.5	25	18	16	12	11.5	8	50
BCUE 04N2B		NPT1/8	7	37.5	30	20			14	10	50
BCUE 04N4B		NPT1/4	10	46	35	2			17.5	14	50
BCUE 04N6B		NPT3/8	12.5	46	37.5	23			21	17	50
BCUE 05N2B	5/16	NPT1/8	7	35	30	23	17	14	14	10	25
BCUE 05N4B		NPT1/4	10	43	35	25			17.5	14	25
BCUE 05N6B		NPT3/8	12.5	43.5	37.5	26			21	17	25
BCUE 05N7B		NPT1/2	15.5	49.5	41.5	29			26	24	25
BCUE 06N4B	3/8	NPT1/4	10	43	35	28	20	17.5	17.5	14	20
BCUE 06N6B		NPT3/8	12.5	43.5	37.5	29			21	17	20
BCUE 06N7B		NPT1/2	15.5	49.5	41.5	32			26	24	20
BCUE 07N6B	1/2	NPT3/8	12.5	43.5	37.5	31	24	21.5	21	17	20
BCUE 07N7B		NPT1/2	15.5	49.5	41.5	34			26	24	20

● Use a silver plated Lock Nut with 'B' inscribed on top of Handle. (Check valve automatic pressure: 0.5kgf/Cm²)

CES-A Control Elbow Straight A Type



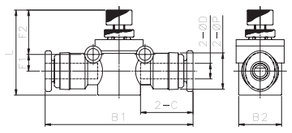
(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	A	B	L1	L2	C	ØP1	ØP2	E	Hex H	Qty (EA)
BCES 01M5A	5/32	M5x0.8	3.5	28.5	25	27	14	10	11.5	11	8	50
BCES 0102A		PT1/8	8	34	30	32			14	14	10	50
BCES 04M5A	1/4	M5x0.8	3.5	28.5	25	28	16	12	11.5	12	8	50
BCES 0402A		PT1/8	8	34	30	33			14	13	10	50
BCES 0404A		PT1/4	12	41	35	34			18	16	14	50
BCES 0502A	5/16	PT1/8	8	34	30	34	17	14	14	15	10	25
BCES 0504A		PT1/4	12	41	35	35			18	17	14	25
BCES 0506A		PT3/8	12	44	37.5	38			21	20	17	25
BCES 0604A	3/8	PT1/4	12	41	35	38	20	17.6	18	17	14	20
BCES 0606A		PT3/8	12	44	37.5	41			21	19	17	20
BCES 0706A	1/2	PT3/8	12	44	37.5	43	24	21.5	21	21	17	20
BCES 0707A		PT1/2	15	50	41.5	44			26	25	22	20

Parts No.	Tube O.D ØD	NPT Thread R	A	B	L1	L2	C	ØP1	ØP2	E	Hex H	Qty (EA)
BCES 01U1A	5/32	10-32UNF	3.5	28.5	25	27	14	10	11.5	11	8	50
BCES 01N2A		NPT1/8	8	34	30	32			14	14	10	50
BCES 04U1A	1/4	10-32UNF	3.5	28.5	25	28	16	12	11.5	12	8	50
BCES 04N2A		NPT1/8	8	34	30	33			14	13	10	50
BCES 04N4A		NPT1/4	11	42	35	34			18	16	14	50
BCES 05N2A	5/16	NPT1/8	8	34	30	34	17	14	14	15	10	25
BCES 05N4A		NPT1/4	11	42	35	35			18	17	14	25
BCES 05N6A		NPT3/8	13	45	37.5	38			21	20	17	25
BCES 06N4A	3/8	NPT1/4	11	42	35	38	20	17.6	18	17	14	20
BCES 06N6A		NPT3/8	13	45	37.5	41			21	19	17	20
BCES 07N6A	1/2	NPT3/8	13	45	37.5	43	24	21.5	21	21	17	20
BCES 07N7A		NPT1/2	15	50	41.5	44			26	25	22	20

● Use a silver plated Lock Nut with 'A' inscribed on top of Handle. (Check valve automatic pressure: 0.5kgf/Cm²)

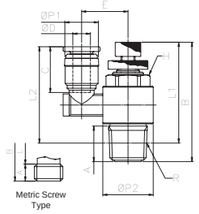
CUS Control Union Straight



(Unit:mm)

Parts No.	Tube O.D ØD	B1	B2	ØP	L	C	F1	F2	Ød	J	Qty (EA)
BCUS 0101	5/32	40	13	10	23	14	4.5	12	3.2	14	50
BCUS 0404	1/4	48	17.5	12	30.5	16	7.5	15.5	3.2	20	50
BCUS 0505	5/16	52	17.5	14	31.5	17	7.5	15	4.3	21	25
BCUS 0606	3/8	61	21.5	17.5	34	2	9	15	4.3	26	20
BCUS 0707	1/2	64	23	21.5	35.5	22	9.5	14.5	4.3	26	20

CES-B Control Elbow Straight B Type



(Unit:mm)

Parts No.	Tube O.D ØD	PT Thread R	A	B	L1	L2	C	ØP1	ØP2	E	Hex H	Qty (EA)
BCES 01M5B	5/32	M5x0.8	3.5	28.5	25	27	14	10	11.5	11	8	50
BCES 0102B		PT1/8	8	34	30	32			14	14	10	50
BCES 04M5B	1/4	M5x0.8	3.5	28.5	25	28	16	12	11.5	12	8	50
BCES 0402B		PT1/8	8	34	30	33			14	13	1	50
BCES 0404B		PT1/4	12	41	35	34			18	16	14	50
BCES 0502B	5/16	PT1/8	8	34	30	34	17	14	14	15	10	25
BCES 0504B		PT1/4	12	41	35	35			18	17	14	25
BCES 0506B		PT3/8	12	44	37.5	38			21	20	17	25
BCES 0604B	3/8	PT1/4	12	41	35	38	20	17.6	18	17	14	20
BCES 0606B		PT3/8	12	44	37.5	41			21	19	17	20
BCES 0706B	1/2	PT3/8	12	44	37.5	43	24	21.5	21	21	17	20
BCES 0707B		PT1/2	15	50	41.5	44			26	25	22	20

Parts No.	Tube O.D ØD	NPT Thread R	A	B	L1	L2	C	ØP1	ØP2	E	Hex H	Qty (EA)
BCES 01U1B	5/32	10-32UNF	3.5	28.5	25	27	14	10	11.5	11	8	50
BCES 01N2B		NPT1/8	8	34	30	32			14	14	10	50
BCES 04U1B	1/4	10-32UNF	3.5	28.5	25	28	16	12	11.5	12	8	50
BCES 04N2B		NPT1/8	8	34	30	33			14	13	10	50
BCES 04N4B		NPT1/4	11	42	35	34			18	16	14	50
BCES 05N2B	5/16	NPT1/8	8	34	30	34	17	14	14	15	10	25
BCES 05N4B		NPT1/4	11	42	35	35			18	17	14	25
BCES 05N6B		NPT 3/8	13	45	37.5	38			21	20	17	25
BCES 06N4B	3/8	NPT1/4	11	42	35	38	20	17.6	18	17	14	20
BCES 06N6B		NPT3/8	13	45	37.5	41			21	19	17	20
BCES 07N6B	1/2	NPT3/8	13	45	37.5	43	24	21.5	21	21	17	20
BCES 07N7B		NPT1/2	15	50	41.5	44			26	25	22	20

● Use a gold plated Lock Nut with 'B' inscribed on top of Handle. (Check valve automatic pressure: 0.5kgf/Cm²)

THROTTLE VALVES

ORDER INFORMATION

B TUE 06 (04) 06 - (BK)

Tube O.D	01=5/32″, 03=3/16″, 04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Part Name	
Material	• Acetal : A • Polybutylene Terephthalate (PBT) : B
Tube O.D Stem O.D	01=5/32″, 03=3/16″, 04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Thread Type	02=PT1/8″, 04=PT1/4″, 06=PT3/8″, 07=PT1/2″ U1=10-32UNF N2=NPT1/8″, N4=NPT1/4″, N6=NPT3/8″, N7=NPT1/2″
Stem O.D	01=5/32″, 03=3/16″, 04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Body Color	• Black : BK

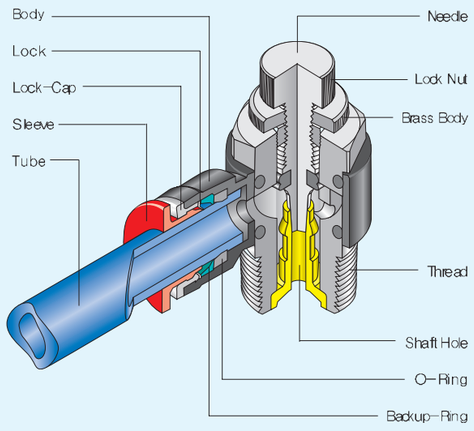
Usages

- These valves are used for flow control of air pressure driving devices.
- These valves can be useful for control and operation of cylinders and other devices in a confined space.

Features

- Flow control is possible from low volume to large volume.
- Valve configuration and dimensions are uniform for different valve openings so that they facilitate applications in diverse circumstances.
- Same flow rate can be achieved regardless of valve size.

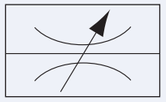
Diagram



Specification

Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg (10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

Throttle Valve Label



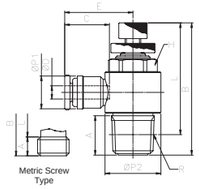
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- If needle is used in rough manner, it can be separated from the main body.
- These valves may have minute amounts of air leak. Do not use these products where required air leak is zero.

⚠ Warning

- Verify product features and circuit diagram and ensure that air control direction has been set right before using product.
- When controlling speed of a driving device, slowly open the valve from needle fully closed condition and apply control.
- Do not forcibly drive or rotate the product where the main body itself rotates.

TUE Throttle Universal Elbow

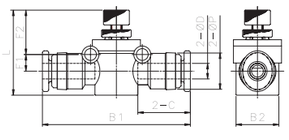


(Unit:mm)

Parts No.	Tube O.D ø D	PT Thread R	A	B	L	E	C	ø P1	ø P2	Hex H	Qty (EA)
BTUE 01M5	5/32	M5X0.8	3.5	28.5	25	17	14	10	11.5	8	50
BTUE 0102		PT1/8	8	34	30	19			14	10	50
BTUE 0104		PT1/4	12	41	35	20			17.5	14	50
BTUE 04M5	1/4	M5X0.8	3.5	28.5	25	18	16	12	11.5	8	50
BTUE 0402		PT1/8	8	34	30	20			14	10	50
BTUE 0404		PT1/4	12	41	35	21			17.5	14	50
BTUE 0406		PT3/8	12	44	37.5	23			21	17	50
BTUE 0502	5/16	PT1/8	8	34	30	23	17	14	14	10	25
BTUE 0504		PT1/4	12	41	35	25			17.5	14	25
BTUE 0506		PT3/8	12	44	37.5	26			21	17	25
BTUE 0507		PT1/2	15	50	41.5	29			26	22	25
BTUE 0604	3/8	PT1/4	12	41	35	28	20	17.5	17.5	14	20
BTUE 0606		PT3/8	12	44	37.5	29			21	17	20
BTUE 0607		PT1/2	15	50	41.5	32			26	22	20
BTUE 0706	1/2	PT3/8	12	44	37.5	31	24	21.5	21	17	20
BTUE 0707		PT1/2	15	50	41.5	34			26	22	20

Parts No.	Tube O.D ø D	NPT Thread R	A	B	L	E	C	ø P1	ø P2	Hex H	Qty (EA)
BTUE 01U1	5/32	10-32UNF	3.5	28.5	25	17	14	10	11.5	8	50
BTUE 01N2		NPT1/8	3.5	38.5	30	19			14	10	50
BTUE 01N4		NPT1/4	7	46	35	20			17.5	14	50
BTUE 03U1	3/16	10-32UNF	3.5	28.5	25	18	16	12	11.5	8	50
BTUE 03N2		NPT1/8	3.5	37.5	30	20			14	10	50
BTUE 03N4		NPT1/4	7	46	35	2			17.5	14	50
BTUE 03N6		NPT3/8	10	46	37.5	23			21	17	50
BTUE 04U1	1/4	10-32UNF	3.5	28.5	25	18	16	12	11.5	8	50
BTUE 04N2		NPT1/8	7	37.5	30	20			14	10	50
BTUE 04N4		NPT1/4	10	46	35	2			17.5	14	50
BTUE 04N6		NPT3/8	12.5	46	37.5	23			21	17	50
BTUE 05N2	5/16	NPT1/8	7	35	30	23	17	14	14	10	25
BTUE 05N4		NPT1/4	10	43	35	25			17.5	14	25
BTUE 05N6		NPT3/8	12.5	43.5	37.5	26			21	17	25
BTUE 05N7		NPT1/2	15.5	49.5	41.5	29			26	24	25
BTUE 06N4	3/8	NPT1/4	10	43	35	28	20	17.5	17.5	14	20
BTUE 06N6		NPT3/8	12.5	43.5	37.5	29			21	17	20
BTUE 06N7		NPT1/2	15.5	49.5	41.5	32			26	24	20
BTUE 07N6	1/2	NPT3/8	12.5	43.5	37.5	31	24	21.5	21	17	20
BTUE 07N7		NPT1/2	15.5	49.5	41.5	34			26	24	20

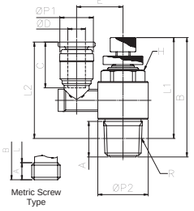
TUS Throttle Union Straight



(Unit:mm)

Parts No.	Tube O.D ø D	B1	B2	ø P	L	C	F1	F2	ø d	J	Qty (EA)
BTUS 0101	5/32	40	13	10	23	14	4.5	12	3.2	14	50
BTUS 0404	1/4	48	17.5	12	30.5	16	7.5	15.5	3.2	20	50
BTUS 0505	5/16	52	17.5	14	31.5	17	7.5	15	4.3	21	25
BTUS 0606	3/8	61	21.5	17.5	34	20	9	15	4.3	26	20
BTUS 0707	1/2	64	23	21.5	35.5	22	9.5	14.5	4.3	26	20

TES Throttle Elbow Straight



(Unit :mm)

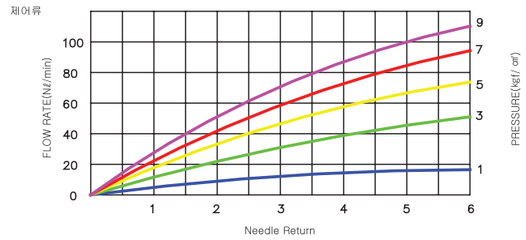
Parts No.	Tube O.D ØD	PT Thread R	A	B	L1	L2	C	ØP1	ØP2	E	Hex H	Qty (EA)
BTES 01M5	5/32	M5x0.8	3.5	28.5	25	27	14	10	11.5	11	8	50
BTES 0102		PT1/8	8	34	30	32			14	14	10	50
BTES 04M5	1/4	M5x0.8	3.5	28.5	25	28	16	12	11.5	12	8	50
BTES 0402		PT1/8	8	34	30	33			14	13	10	50
BTES 0404		PT1/4	12	41	35	34			18	16	14	50
BTES 0502	5/16	PT1/8	8	34	30	34	17	14	14	15	10	25
BTES 0504		PT1/4	12	41	35	35			18	17	14	25
BTES 0506		PT3/8	12	44	37.5	38			21	20	17	25
BTES 0604	3/8	PT1/4	12	41	35	38	20	17.6	18	17	14	20
BTES 0606		PT3/8	12	44	37.5	41			21	19	17	20
BTES 0706	1/2	PT3/8	12	44	37.5	43	24	21.5	21	21	17	20
BTES 0707		PT1/2	15	50	41.5	44			26	25	22	20

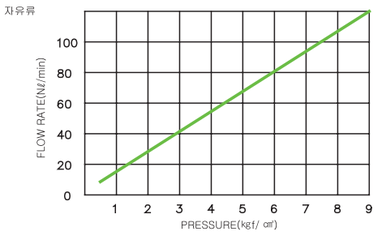
Parts No.	Tube O.D ØD	NPT Thread R	A	B	L1	L2	C	ØP1	ØP2	E	Hex H	Qty (EA)
BTES 01U1	5/32	10-32UNF	3.5	28.5	25	27	14	10	11.5	11	8	50
BTES 01N2		NPT1/8	8	34	30	32			14	14	10	50
BTES 04U1	1/4	10-32UNF	3.5	28.5	25	28	16	12	11.5	12	8	50
BTES 04N2		NPT1/8	8	34	30	33			14	13	10	50
BTES 04N4		NPT1/4	11	42	35	34			18	16	14	50
BTES 05N2	5/16	NPT1/8	8	34	30	34	17	14	14	15	10	25
BTES 05N4		NPT1/4	11	42	35	35			18	17	14	25
BTES 05N6		NPT3/8	13	45	37.5	38			21	20	17	25
BTES 06N4	3/8	NPT1/4	11	42	35	38	20	17.6	18	17	14	20
BTES 06N6		NPT3/8	13	45	37.5	41			21	19	17	20
BTES 07N6	1/2	NPT3/8	13	45	37.5	43	24	21.5	21	21	17	20
BTES 07N7		NPT1/2	15	50	41.5	44			26	25	22	20

FLOW RATE / CUE, CES TYPE

BCUE 04M5
BCUE 06M5

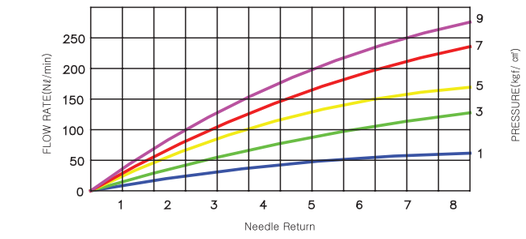
BCES 04M5
BCES 06M5

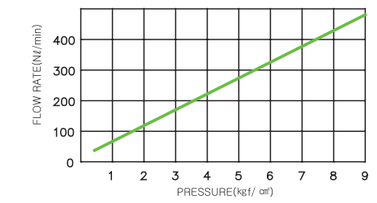




BCUE 0402M
BCUE 0602M
BCUE 0802M

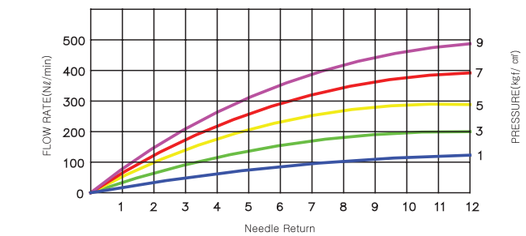
BCES 0402M
BCES 0602M
BCES 0802M

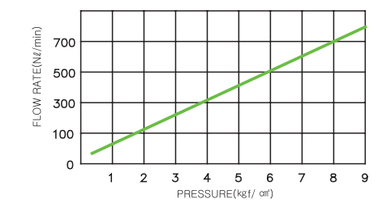




BCUE 0404M
BCUE 0604M
BCUE 0804M
BCUE 1004M

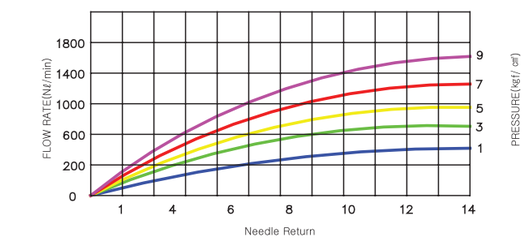
BCES 0404M
BCES 0604M
BCES 0804M
BCES 1004M

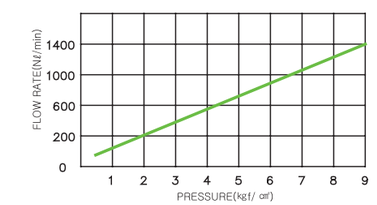




BCUE 0606M
BCUE 0806M
BCUE 1006M
BCUE 1206M

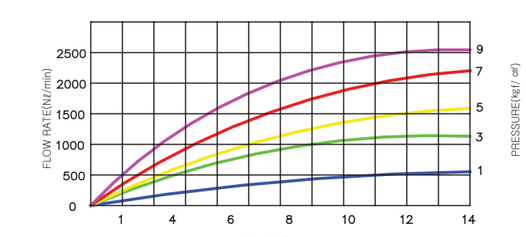
BCES 0606M
BCES 0806M
BCES 1006M
BCES 1206M

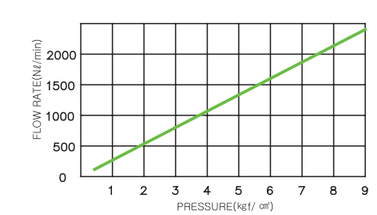




BCUE 0807M
BCUE 1007M
BCUE 1207M

BCES 0807M
BCES 1007M
BCES 1207M

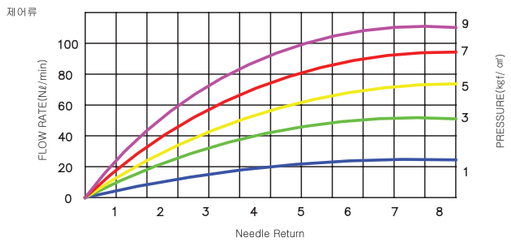


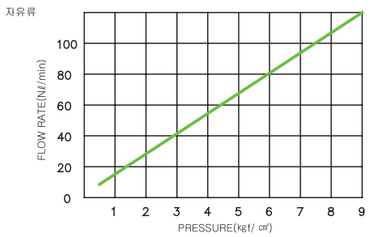


SPEED CONTROL VALVES

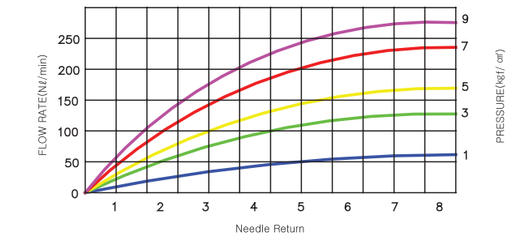
FLOW RATE / CUS TYPE

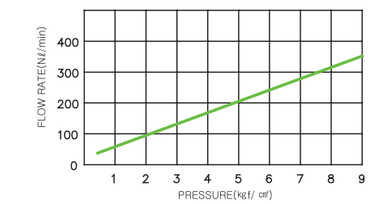
BCUS 0404M



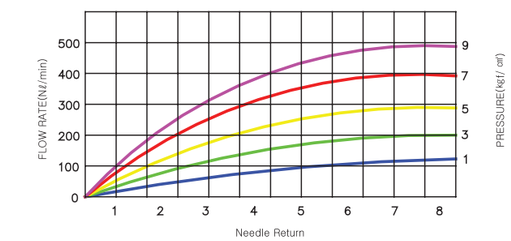


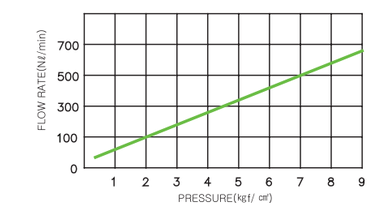
BCUS 0606M



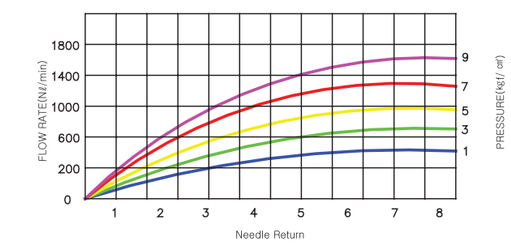


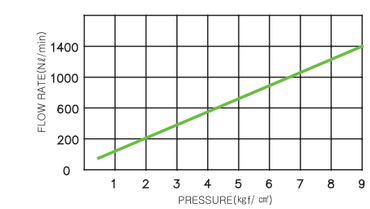
BCUS 0808M



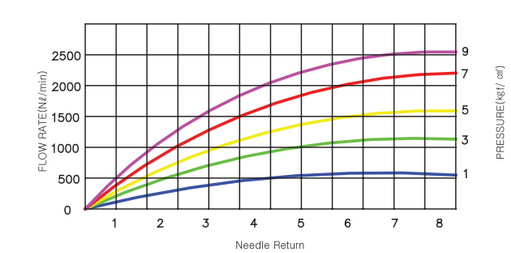


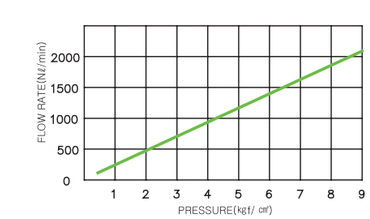
BCUS 1010M





BCUS 1212M





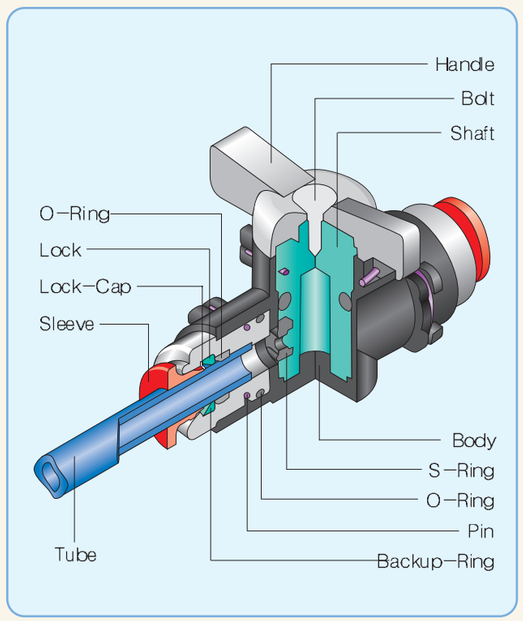
BALL VALVES

Usages

- These valves are used for open-close of air pressure in a device.
- These valves can be applied appropriately to suit the user's intended application (Fitting-Tube, Thread).
- Bulkhead products are suitable for tubing fixation.

Features

- These products are made of PPS.
- Compressed air and water can be used with these valves.
- These valves are small in size but have sufficient effective cross sections corresponding to tube dimensions.



ORDER INFORMATION

B — BVMC — 06 — 06 — BK

Tube O.D	04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8", 07=PT1/2" N2=NPT1/8", N4=NPT1/4", N6=NPT3/8", N7=NPT1/2"
Part Name	
Material	• PPS : B • Polybutylene Terepthalate (PBT) : B
Tube O.D	04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8", 07=PT1/2" N2=NPT1/8", N4=NPT1/", N6=NPT3/8", N7=NPT1/2"
Body Color	• Black : BK

Specification

Fluid / Conditions	Air	Water
Pressure	0 ~ 1.0Mpa (10kgf/cm²)	0~0.3Mpa (3kgf/cm²)
Vacuum	-750mmHg(10Torr)	—
Temperature	0℃ ~ 60℃	
Hose Used	Polyurethane, Nylon, Polyethylene	

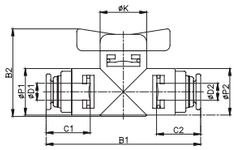
⚠ Safety Instruction

- Please read safety instructions (P.5) of this Product Catalog before using these products.
- When operating the handle, make sure to turn it fully to either Close or Open direction. Otherwise, incomplete cutoff/open action can result in insufficient flow rate.

⚠ Warning

- When using water as the fluid medium, the operating pressure must not exceed 0~3kgf/cm². Do not use in situations subject to vibration, bending or shock.
- Verify Lock Pin is installed correctly before using a valve. If Lock Pin is missing, the main body will be disassembled.

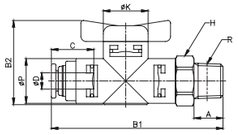
BVUC Ball Valve Union Connector



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	C1	C2	øP1	øP2	B1	B2	øK	Orifice Dia. (Ømm)	Qty (EA)
BBVUC 0404	1/4	1/4	16	16	17	17	56	23.5	17	5	50
BBVUC 0504	5/16	1/4	17	16	17	17	57	23	17	5	50
BBVUC 0505	5/16	5/16	17	17	17	17	58	23.5	17	6	50
BBVUC 0606	3/8	3/8	20	20	24	24	76	28	24	8	25
BBVUC 0706	1/2	3/8	22	20	24	24	76	28	24	8	20
BBVUC 0707	1/2	1/2	22	22	24	24	76	28	24	9	20

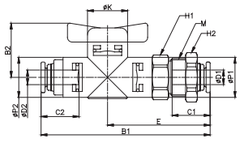
BVMC Ball Valve Male Connector



(Unit:mm)

Parts No.	Tube O.D ø D	NPT Thread R	C	øP	B1	B2	øK	A	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BBVMC 0402	1/4	NPT1/8	16	17	61	32.2	17	8	17	5	50
BBVMC 0404		NPT1/4			64			11			50
BBVMC 0406		NPT3/8			65			12			50
BBVMC 0502	5/16	NPT1/8	17	17	63	32.2	17	8	17	6	50
BBVMC 0504		NPT1/4			66			11			50
BBVMC 0506		NPT3/8			67			12			50
BBVMC 0604	3/8	NPT1/4	20	24	82	40.3	24	11	24	8	25
BBVMC 0606		NPT3/8			83			12			25
BBVMC 0607		NPT1/2			86			15			25
BBVMC 0704	1/2	NPT1/4	22	24	82	40.3	24	11	24	9	20
BBVMC 0706		NPT3/8			83			12			20
BBVMC 0707		NPT1/2			86			15			20

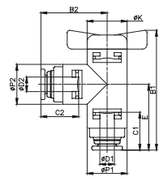
BVBU Ball Valve Bulkhead Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	Metric Thread M	C1	C2	øP1	øP2	E	B1	B2	øK	Orifice Dia. (Ømm)	Qty (EA)
BBVBU 0404	1/4	1/4	M14X1.0	16	16	17	17	43	71	23	17	5	50
BBVBU 0504	5/16	1/4	M16X1.0	17	16	17	17	44	73	23	17	5	50
BBVBU 0505	5/16	5/16	M16X1.0	17	17	17	17	44	73	23	17	6	50
BBVBU 0606	3/8	3/8	M20X1.0	20	20	24	24	53	91	28	24	7	25
BBVBU 0706	1/2	3/8	M20X1.0	22	20	24	24	54	92	28	24	7	20
BBVBU 0707	1/2	1/2	M22X1.0	22	22	24	24	54	92	28	24	8	20

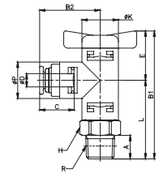
BVEU Ball Valve Elbow Union



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	C1	C2	P1	P2	B1	B2	øK	Orifice Dia. (Ømm)	Qty (EA)
BBVEU 0404	1/4	1/4	16	16	17	17	51	28	17	5	50
BBVEU 0405		5/16	16	14			51	29		5	50
BBVEU 0504	5/16	1/4	14	16	17	17	52	28	17	5	50
BBVEU 0505		5/16	17	17			52	29		6	50
BBVEU 0606	3/8	3/8	20	20	24	24	66	38	24	8	25
BBVEU 0607		1/2	20	22			66	38		8	25
BBVEU 0706	1/2	3/8	22	20	24	24	66	38	24	8	20
BBVEU 0707		1/2	22	22			66	38		9	20

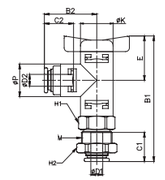
BVME Ball Valve Male Elbow



(Unit:mm)

Parts No.	Tube O.D ø D	NPT Thread R	C	øP	B1	B2	øK	A	Hex H	Orifice Dia. (Ømm)	Qty (EA)
BBVME 0402	1/4	NPT1/8	16	17	57	28	17	8	17	5	50
BBVME 0404		NPT1/4			60			11			50
BBVME 0406		NPT3/8			61			12			50
BBVME 0502	5/16	NPT1/8	17	17	57	29	17	8	17	6	50
BBVME 0504		NPT1/4			60			11			50
BBVME 0506		NPT3/8			61			12			50
BBVME 0604	3/8	NPT1/4	20	24	72.5	38	24	11	24	8	25
BBVME 0606		NPT3/8			73.5			12			25
BBVME 0607		NPT1/2			76.5			15			25
BBVME 0704	1/2	NPT1/4	22	24	72.5	38	24	11	24	9	20
BBVME 0706		NPT3/8			73.5			12			20
BBVME 0707		NPT1/2			76.5			15			20

BVBE Ball Valve Bulkhead Elbow



(Unit:mm)

Parts No.	Tube O.D ø D1	Tube O.D ø D2	Metric Thread M	C1	C2	øP1	øP2	E	B1	B2	øK	Orifice Dia. (Ømm)	Qty (EA)
BBVBE 0404	1/4	1/4	M14X1.0	16	16	17	17	23	66	28	17	5	50
BBVBE 0504	5/16	1/4	M16X1.0	17	16	17	17	23	67	28	17	5	50
BBVBE 0505	5/16	5/16	M16X1.0	17	17	17	17	23	67	29	17	6	50
BBVBE 0606	3/8	3/8	M20X1.0	20	20	24	24	28	82	38	24	7	25
BBVBE 0706	1/2	3/8	M20X1.0	22	20	24	24	28	82	38	24	7	20
BBVBE 0707	1/2	1/2	M22X1.0	22	22	24	24	28	82	38	24	8	20

CHECK VALVES

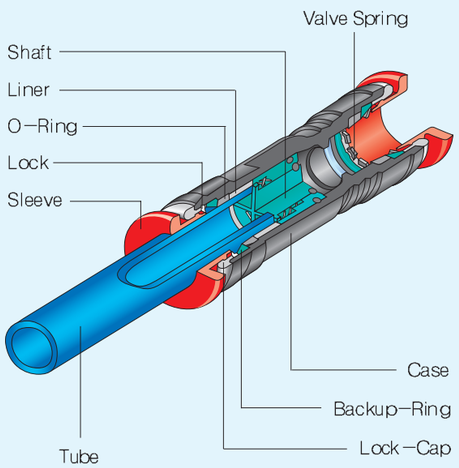
Usages

- Check valves are used where air flow has to be in one direction only.
- These valves are used where the air flow has to be constant without variation in the fluid pressure at the output side.

Features

- Check valves ensure that air flows in one direction only and block air flow of reverse direction.
- Check valves operate at the pressure of 0.1kgf/cm² and 1.42(PS) vacuum pressure is maintained. They are connected at low pressure.

Diagram



ORDER INFORMATION

B | CVMC | 06 | 02 - (BK)

Tube O.D	01=5/32", 03=3/16", 04=1/4", 05=5/16", 06=3/8", 07=1/2"
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8", 07=PT1/2" M5=M5X0.8P, M6=M6X1.0P N2=NPT1/8", N4=NPT1/4", N6=NPT3/8", N7=NPT1/2"
Part Name	
Material	• Brass : B • Polybutylene Terepthalate(PBT) : B
Tube O.D	01=5/32", 03=3/16", 04=1/4", 05=5/16", 06=3/8", 07=1/2"
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8", 07=PT1/2" M5=M5X0.8P, M6=M6X1.0P N2=NPT1/8", N4=NPT1/4", N6=NPT3/8", N7=NPT1/2"
Body Color	• Black : BK

Specification

Conditions \ Fluid	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)
Temperature	0℃ ~ 60℃
Hose Used	Polyurethane, Nylon, Polyethylene

Control Method

Type	Meter IN	Meter OUT
Air Flow	Thread to Tube	Tube to Thread
CVMC		
CVBU		
CVUC	Just keep the direction marked on the Body	

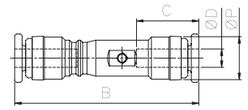
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- When tightening a screw product, screw can be stuck into the main body, resulting in a malfunction.
- Verify air flow direction before using a check valve.

⚠ Warning

- In case of too frequent operations of a valve body, excessive heat generation could inflict burn injury to human skin.

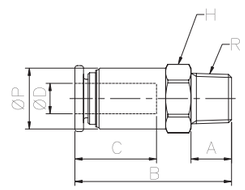
CVUC Check Valve Union Connector



(Unit:mm)

Parts No.	Tube O.D ØD	ØD	C	ØP	B	Qty (EA)
BCVUC 0101	5/32	5/32	14	10	42	100
BCVUC 0404	1/4	1/4	15	12	45	50
BCVUC 0505	5/16	5/16	17	14	53	50
BCVUC 0606	3/8	3/8	20	17.5	58	25
BCVUC 0707	1/2	1/2	22	21.5	70	20

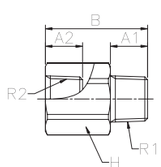
CVMC Check Valve Male Connector



(Unit:mm)

Parts No.	Tube O.D ØD	NPT Thread R	A	ØP	C	B	Hex H	Qty (EA)
BCVMC 01U1	5/32	10-32UNF	5.5	10	14	32	7/16	100
BCVMC 01N2		NPT1/8	8	10	14	36	7/16	100
BCVMC 03U1	3/16	10-32UNF	4	12	14	30	7/16	50
BCVMC 03N2		NPT1/8	8	12	15	30	7/16	50
BCVMC 03N4		NPT1/4	11	12	15	30	9/16	50
BCVMC 04N2	1/4	NPT1/8	8	12	15	30	1/2	50
BCVMC 04N4		NPT1/4	11	12	15	30	1/2	50
BCVMC 05N2	5/16	NPT1/8	8	14	17	43	9/16	50
BCVMC 05N4		NPT1/4	11	14	17	30	9/16	50
BCVMC 06N6	3/8	NPT3/8	12	17.5	20	46	11/16	25
BCVMC 06N7		NPT1/2	15	17.5	20	46	7/8	25
BCVMC 07N6	1/2	NPT3/8	12	21.5	22	53	7/8	20
BCVMC 07N7		NPT1/2	15	21.5	22	53	7/8	20

CVBU Check Valve BUsh

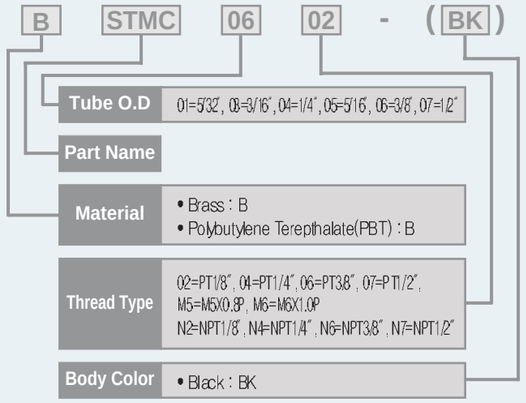


(Unit:mm)

Parts No.	NPT Thread R1	NPT Thread R2	A1	A2	B	Hex H	Qty (EA)
BCVBU N2N2	NPT1/8	NPT1/8	8	8	22	14	100
BCVBU N4N4	NPT1/4	NPT1/4	11	11	28	17	50
BCVBU N6N6	NPT3/8	NPT3/8	10	13	37	24	25
BCVBU N7N7	NPT1/2	NPT1/2	12	16	45	27	20

STOP FITTINGS

ORDER INFORMATION



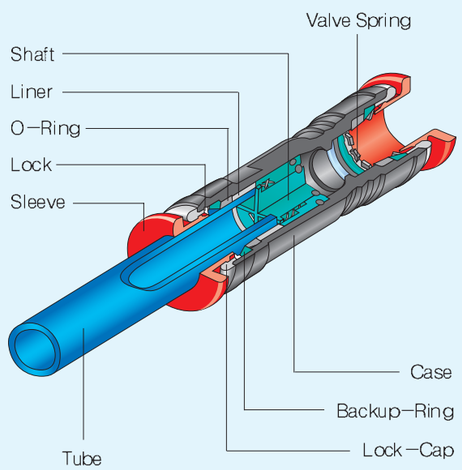
Usages

- Stop fittings are used mostly where pneumatic tubing is frequently changed.
- Stop fittings are also used widely in laboratory and instructional devices.

Features

- Stop Valve is imbedded to allow bi-directional air flow when connected to Tube. When Tube is separated air flow stops.
- Interior is of two-stage structure to facilitate attachment and detachment.

Diagram



Specification

Fluid Medium	Air
Op. Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	-750mmHg(10Torr)
Hose Used	Polyurethane, Nylon, Polyethylene

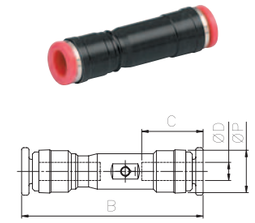
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- Verify flow direction of Stop Fitting before using it. Wrong flow connection can result in no air flow.

⚠ Warning

- When separating Tube with pressure applied to Stop Fitting, the Tube may abruptly shoot out and cause bodily injury.

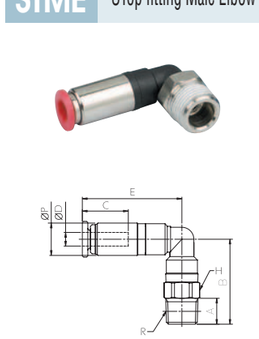
STUC STop fitting Union Connector



(Unit:mm)

Parts No.	Tube O.D ØD	C	ØP	B	Qty (EA)
BSTUC 0101	5/32	14	10	42	100
BSTUC 0404	1/4	16	1	45	50
BSTUC 0505	5/16	17	14	53	50
BSTUC 0606	3/8	20	17.5	58	25
BSTUC 0707	1/2	22	21.5	70	20

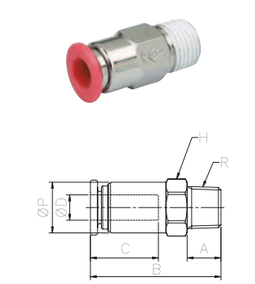
STME STop fitting Male Elbow



(Unit:mm)

Parts No.	Tube O.D ØD	NPT Thread R	C	E	ØP	B	Hex H	A	Qty (EA)
BSTME 01U1	5/32	10-32UNF	14	30	10	23.5	10	5.5	100
BSTME 01N2		NPT1/8				26.5	10	8	100
BSTME 03U1	3/16	10-32UNF	16	33	12	27.5	12	5.5	50
BSTME 03N2		NPT1/8				29	12	8	50
BSTME 03N4		NPT1/4				32	14	11	50
BSTME 04U1	1/4	10-32UNF	16	33	12	27.5	12	5.5	50
BSTME 04N2		NPT1/8				29	12	8	50
BSTME 04N4		NPT1/4				32	14	11	50
BSTME 05N2	5/16	NPT1/8	17	40	14.5	30.5	14	8	50
BSTME 05N4		NPT1/4				33.5	14	11	50
BSTME 05N6		NPT3/8				35	17	12	50
BSTME 06N4	3/8	NPT1/4	20	46	17.5	37.5	17	11	25
BSTME 06N6		NPT3/8				39	17	12	25
BSTME 06N7		NPT1/2				43	22	15	25
BSTME 07N6	1/2	NPT3/8	22	54	22	41	21	12	20
BSTME 07N7		NPT1/2				45	22	15	20

STMC STop fitting Male Connector



(Unit:mm)

Parts No.	Tube O.D ØD	NPT Thread R	A	ØP	C	B	Hex H	Qty (EA)
BSTMC 01U1	5/32	10-32UNF	5.5	10	14	20.5	10	100
BSTMC 01N2		NPT1/8	8	10	14	23	10	100
BSTMC 03N2	3/16	NPT1/8	8	12	16	26	12	50
BSTMC 03N4		NPT1/4	11	12	16	26	14	50
BSTMC 04N2	1/4	NPT1/8	8	12	16	26	12	50
BSTMC 04N4		NPT1/4	11	12	16	26	14	50
BSTMC 05N2	5/16	NPT1/8	8	14	17	35	14	50
BSTMC 05N4		NPT1/4	11	14	17	35	14	50
BSTMC 05N6		NPT3/8	12	14	17	35	17	50
BSTMC 06N4	3/8	NPT1/4	11	17	20	39	17	25
BSTMC 06N6		NPT3/8	12	17	20	39	17	25
BSTMC 06N7		NPT1/2	15	17.5	20	39	22	25
BSTMC 07N6	1/2	NPT3/8	12	21	22	46	22	20
BSTMC 07N7		NPT1/2	15	22	22	46	22	20

ROTARY JOINTS

ORDER INFORMATION

B | RHMC | 06 | 02 | - | (BK)

Tube O.D	02=5/32″, 04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8", 07=PT1/2" M5=M5X0.8P, M6=M6X1.0P N2=NPT1/8", N4=NPT1/4", N6=NPT3/8", N7=NPT1/2"
Part Name	
Material	• Brass : B • Polybutylene Terepthalate(PBT) : B
Tube O.D	02=5/32″, 04=1/4″, 05=5/16″, 06=3/8″, 07=1/2″
Thread Type	02=PT1/8", 04=PT1/4", 06=PT3/8", 07=PT1/2" M5=M5X0.8P, M6=M6X1.0P N2=NPT1/8", N4=NPT1/4", N6=NPT3/8", N7=NPT1/2"
Body Color	• Black : BK

Usages

- Rotary joints are used for piping of swing area and rotating area.
- Rotary joints are applied to Index Tables and industrial robots.

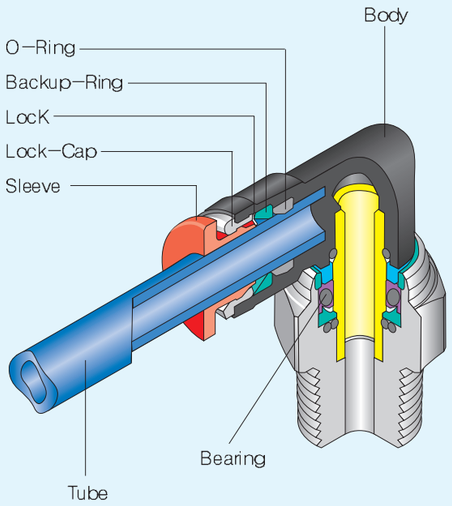
Features

- Bearings are imbedded to enable use in high speed rotation and swinging areas.
- High Rotary Joint, which has double bearings, are used where higher rotation rate than for regular Rotary Joint is required or for other difficult connections.

Specification

Fluid / Conditions	Air
Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum	−750mmHg(10Torr)
Temperature	0℃ ~ 60℃
Hose Used	Polyurethane, Nylon, Polyethylene

Diagram



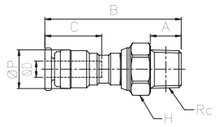
⚠ Safety Instruction

- Please read the safety instruction (page 5) of the Product Catalog before using products.
- Tiny bearings are imbedded within a rotary joint. Therefore, applied load on a rotary joint should be kept a minimum.

⚠ Warning

- In case of high speed movement, use urethane tubing. Hard tubing can cause additional increase of the rotational load.

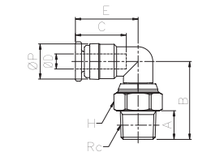
RJMC Rotary Joint Male Connecter



(Unit:mm)

Parts No.	Tube O.D ØD	NPT Thread Rc	A	B	ØP	C	RPM	Hex H	Qty (EA)
BRJMC 01U1	5/32	10-32UNF	5.5	32.5	10	16	500	12	100
BRJMC 01N2		NPT1/8	8	34					100
BRJMC 03U1	3/16	10-32UNF	5.5	35	12	17	500	14	50
BRJMC 03N2		NPT1/8	8	36.5					50
BRJMC 03N4		NPT1/4	11	36.5					50
BRJMC 04U1	1/4	10-32UNF	5.5	35	12	17	500	14	50
BRJMC 04N2		NPT1/8	8	36.5					50
BRJMC 04N4		NPT1/4	11	36.5					50
BRJMC 05N2	5/16	NPT1/8	8	43.5	14	18.5	400	17	50
BRJMC 05N4		NPT1/4	11	43.5					50
BRJMC 05N6		NPT3/8	12	43.5					50
BRJMC 06N6	3/8	NPT3/8	12	56	17.6	21	300	22	25
BRJMC 06N7		NPT1/2	15	55					25
BRJMC 07N6	1/2	NPT3/8	12	62	21.6	22.5	250	24	20
BRJMC 07N7		NPT1/2	15	61					20

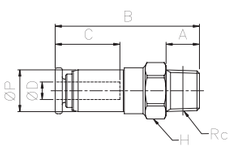
RJME Rotary Joint Male Elbow



(Unit:mm)

Parts No.	Tube O.D ØD	NPT Thread Rc	A	B	ØP	C	RPM	Hex H	Qty (EA)
BRJME 01U1	5/32	10-32UNF	5.5	19.5	10	14	500	12	100
BRJME 01N2		NPT1/8	8	22					100
BRJME 03N2	3/16	NPT1/8	8	24.5	16	17	500	14	50
BRJME 03N4		NPT1/4	11	24.5					50
BRJME 04U1	1/4	10-32UNF	5.5	23	16	17	500	14	50
BRJME 04N2		NPT1/8	8	24.5					50
BRJME 04N4		NPT1/4	11	24.5					50
BRJME 05N2	5/16	NPT1/8	8	30.5	18	18.5	400	17	50
BRJME 05N4		NPT1/4	11	30.5					50
BRJME 05N6		NPT3/8	12	30.5					50
BRJME 06N6	3/8	NPT3/8	12	35	17.6	21.5	300	22	25
BRJME 06N7		NPT1/2	15	34					25
BRJME 07N6	1/2	NPT3/8	12	31	21.6	22.5	250	24	20
BRJME 07N7		NPT1/2	15	30					20

RHMC Rotary Joint High Male Connector

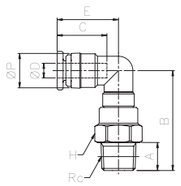


(Unit:mm)

Parts No.	Tube O.D ØD	NPT Thread Rc	A	B	ØP	C	RPM	Hex H	Qty (EA)
BRHMC 01U1	5/32	10-32UNF	5.5	41.5	10	16	1500	12	100
BRHMC 01N2		NPT1/8	8	47					100
BRHMC 03U1	3/16	10-32UNF	5.5	46.5	16	17	1200	17	50
BRHMC 03N2		NPT1/8	8	52					50
BRHMC 03N4		NPT1/4	11	52					50
BRHMC 04N2	1/4	NPT1/8	8	52	16	17	1200	17	50
BRHMC 04N4		NPT1/4	11	52					50
BRHMC 05N2	5/16	NPT1/8	12	52.5	18	18.5	1200	17	50
BRHMC 05N4		NPT1/4	12	52.5					50
BRHMC 06N6	3/8	NPT3/8	12	65	17.6	21.5	1000	24	25
BRHMC 06N7		NPT1/2	15	68					25
BRHMC 07N6	1/2	NPT3/8	12	67	21.6	22.5	1000	24	20
BRHMC 07N7		NPT1/2	15	70					20

ROTARY JOINTS

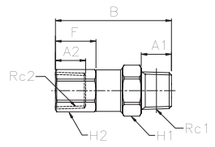
RHME Rotary joint High Male Elbow



(Unit :mm)

Parts No.	Tube O.D ø D	NPT Thread Rc	A	B	E	ø P	C	RPM	Hex H	Qty (EA)
BRHME 01U1	5/32	10-32UNF	5.5	33	17.5	10	14	1500	12	100
BRHME 01N2		NPT1/8	8	37.5	17.5					100
BRHME 03U1	3/16	10-32UNF	5.5	43	20.6	16	17	1200	17	50
BRHME 03N2		NPT1/8	8	46	20.6					50
BRHME 03N4		NPT1/4	11	46	20.6					50
BRHME 04N2	1/4	NPT1/8	8	43	20.6	16	17	1200	17	50
BRHME 04N4		NPT1/4	11	46	20.6					50
BRHME 05N2	5/16	NPT1/8	8	44	24	18	18.5	1200	17	50
BRHME 05N4		NPT1/4	11	47	24					50
BRHME 06N6	3/8	NPT3/8	12	55	28	17.6	21.5	1000	24	25
BRHME 06N7		NPT1/2	15	58	28					25
BRHME 07N6	1/2	NPT3/8	12	57	31	21.6	22.5	1000	24	20
BRHME 07N7		NPT1/2	15	60	31					20

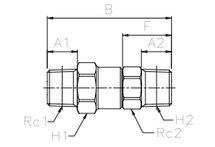
RHMF Rotary joint High Male to Female



(Unit :mm)

Parts No.	NPT Thread Rc1	NPT Thread Rc2	A1	A2	B	RPM	Hex H1	Hex H2	Qty (EA)
BRHMF N2N2	NPT1/8	NPT1/8	8	8	45	1200	17	14	100
BRHMF N2N4		NPT1/4	8	11	52			17	100
BRHMF N4N2	NPT1/4	NPT1/8	11	8	52	1200	17	14	50
BRHMF N4N4		NPT1/4	11	11	55			17	50
BRHMF N6N6	NPT3/8	NPT3/8	12	12	63.5	1000	24	22	25
BRHMF N6N7		NPT1/2	12	15	66.5			24	25
BRHMF N7N6	NPT1/2	NPT3/8	15	12	66.5	1000	24	22	20
BRHMF N7N7		NPT1/2	15	15	69.5			24	20

RHMM Rotary joint High Male to Male

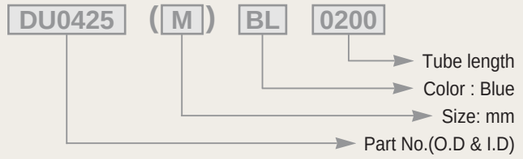


(Unit :mm)

Parts No.	NPT Thread Rc1	NPT Thread Rc2	A1	A2	B	RPM	Hex H1	Hex H2	Qty (EA)
BRHMM N2N2	NPT1/8	NPT1/8	8	8	49	1200	17	14	100
BRHMM N2N4		NPT1/4	8	11	52			14	100
BRHMM N4N2	NPT1/4	NPT1/8	11	8	52	1200	17	14	50
BRHMM N4N4		NPT1/4	11	11	55			14	50
BRHMM N6N6	NPT3/8	NPT3/8	12	12	63.5	1000	24	22	25
BRHMM N6N7		NPT1/2	12	15	65.5			22	25
BRHMM N7N6	NPT1/2	NPT3/8	15	12	66.5	1000	24	22	20
BRHMM N7N7		NPT1/2	15	15	68.5			22	20

POLYURETHANE TUBES

ORDER INFORMATION



Tube O.D	1/8", 5/32", 3/16", 1/4", /16", 3/8", 1/2"
Tube I.D	TUBE I.D : Metric Size(mm)
사용예	DU 5/32-20 : PolyUrethane Tube Tube O.D : 5/32" Tube I.D : 2.0(mm)

Usages

- In general, polyurethane tubes are used for industrial robots and pneumatic tubing.
- These tube products can be applied to diverse applications based on user's requirements..

Features

- Better flexibility than nylon tubes, then excellent workability.
- Excellent flexibility even at low temperatures.
- Good wear resistance, climate resistance and bending fatigue resistance.
- No static accumulation and excellent dimensional stability.

Colors

Code	Color	3mm	4mm	6mm	8mm	10mm	12mm
BL	Blue	○	○	○	○	○	○
YE	Yellow	○	○	○	○	○	○
WT	White	○	○	○	○	○	○
NA	Natural	○	○	○	○	○	○
BK	BlacK	○	○	○	○	○	○
RE	Red	○	○	○	○	○	○
GR	Gray	○	○	○	○	○	○
GN	Green	○	○	○	○	○	○

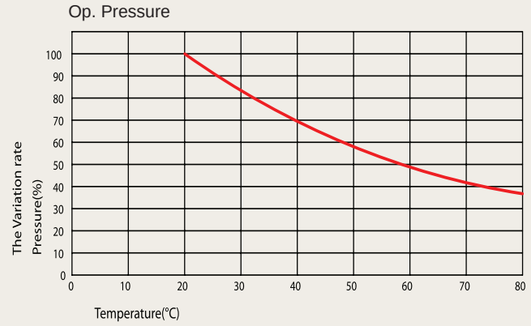
※ Colors may be used by usage or by fluid medium.

Max Operating Pressure & Temperature

Category	3mm, 4mm, 6mm, 8mm, 10mm, 12mm
Material	Polyurethane
Operating Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum Pressure	-750mmHg (10Torr)
Operating Temperature	-15℃ ~ 60℃
Fluid Medium	Air, Water(No other gases or liquids)

※ Max op pressure can vary by operating temperature.

Operating pressure graph



⚠ Safety Instruction

- Do not use tube beyond its the minimum bending radius.
- Cut tube sufficient length in consideration of future length adjustment possibility.
- Ensure tube is cut squarely with fitting surface. Also, avoid oblong cross section area of tube when cutting.

⚠ Warning

- Do not use product other than for air. Gas decomposition can result in tube cracking or splitting, thus leading to gas leak.
- Do not store or install this product close to a heating device. Tube heating can result in blow up.
- Make sure the tube is not damaged by sharp tools or objects. It can result in tube rupture.
- Make sure no excessive twisting, bending or twirling of tube occurs. It can result in tube rupture or slippage.
- Do not use where sparks occur.

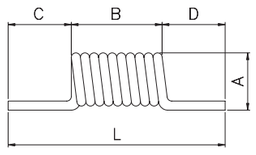
POLYURETHANE TUBES

DU PolyUrethane tube

(Unit :INCH)

Parts No.	Tube O.D	Tube I.D	Wall	Reel Length (m)
DU 1/8-16	1/8	0.062	0.032	200
DU 1/8-20	1/8	0.079	0.024	200
DU 5/32-20	5/32	0.079	0.039	200
DU 5/32-25	5/32	0.098	0.028	100
DU 3/16-32	3/16	0.126	0.031	100
DU 1/4-42	1/4	0.165	0.039	100
DU 5/16-50	5/16	0.197	0.059	100
DU 3/8-64	3/8	0.252	0.059	100
DU 1/2-85	1/2	0.335	0.079	100

DUC PolyUrethane - Coil tube



(Unit :INCH)

Parts No.	Tube O.D	Tube I.D	Wall	A	B	C	D	L	Reel Length (m)
DUC 1/8-20M1	1/8	0.079	0.024	23.7	49	70	70	189	1
DUC 1/8-20M2					97			237	2
DUC 1/8-20M5					243			383	5
DUC 5/32-20M2	5/32	0.079	0.039	25.3	407	70	70	547	2
DUC 5/32-20M5					437			577	5
DUC 5/32-20M10					586			726	10
DUC 5/32-20M15					877			1017	15
DUC 5/32-20M20					1169			1309	20
DUC 3/16-32M2	3/16	0.126	0.031	26.9	135	80	80	295	2
DUC 3/16-32M5					338			498	5
DUC 3/16-32M10					677			837	10
DUC 3/16-32M15					1015			1175	15
DUC 3/16-32M20					1354			1514	20
DUC 1/4-42M2	1/4	0.165	0.039	42	69	80	80	229	2
DUC 1/4-42M5					149			309	5
DUC 1/4-42M10					175			335	10
DUC 1/4-42M15					228			388	15
DUC 1/4-42M20					255			415	20
DUC 5/16-50M5	5/16	0.197	0.059	50	79	90	90	259	5
DUC 5/16-50M10					140			320	10
DUC 5/16-50M15					170			350	15
DUC 5/16-50M20					200			380	20
DUC 3/8-64M5	3/8	0.252	0.059	62.7	199	100	100	399	5
DUC 3/8-64M10					290			490	10
DUC 3/8-64M15					441			641	15
DUC 3/8-64M20					592			792	20
DUC 1/2-85M5	1/2	0.335	0.079	84.5	174	100	100	374	5
DUC 1/2-85M10					253			453	10
DUC 1/2-85M15					385			585	15
DUC 1/2-85M20					517			717	20

POLYETHYLENE TUBES

Usages

- In general, polyethylene tubes are used for food industry. Coiled tube is suitable for air tubing and air driver tubing.
- These tube products enable tubing in confined spaces such as within a device driving mechanism.

Features

- Excellent durability and flexibility.
- Diverse tube colors enable different colors to be used for different uses. Also, same color may be used for same type of devices.

Colors

Code	Color	4㎜	6㎜	8㎜	10㎜	12㎜
BL	Blue	○	○	○	○	○
YE	Yellow	○	○	○	○	○
WT	White	○	○	○	○	○
NA	Natual	○	○	○	○	○
BK	Black	○	○	○	○	○
RE	Red	○	○	○	○	○
GR	Gray	○	○	○	○	○
GN	Green	○	○	○	○	○

※ Colors may be used by usage or by fluid medium.

Max Operating Pressure & Temperature

Category	4㎜, 6㎜, 8㎜, 10㎜, 12㎜
Material	Polyethylene
Operating Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum Pressure	−750mmHg (10Torr)
Operating Temperature	−15℃ ~ 60℃
Fluid Medium	Air, Water(No other gases or liquids)

※ Max op pressure can vary by operating temperature.

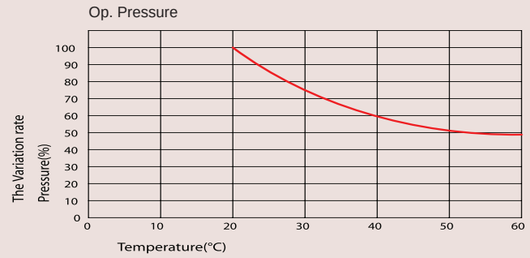
ORDER INFORMATION

DPE 0425 (M) BL 0200

- 0200 → Tube length
- BL → Color : Blue
- M → Size: mm
- DPE 0425 → Part No.(O.D & I.D)

Tube O.D	5/32", 3/16", 1/4", 5/16", 3/8", 1/2"
Tube I.D	TUBE I.D : Metric Size(mm)
사용예	DPE 5/32−20 : PolyEthylene Tube Tube O.D : 5/32" Tube I.D : 2.0(mm)

Operating pressure graph



⚠ Safety Instruction

- Use the tube in consideration of the minimum bending radius.
- Cut tube sufficient length in consideration of future length adjustment possibility.
- Ensure tube is cut squarely with fitting surface. Also, avoid oblong cross section area of tube when cutting.

⚠ Warning

- Do not use product other than for air. Gas decomposition can result in tube cracking or splitting, thus leading to gas leak.
- Do not store or install this product close to a heating device. Tube heating can result in blow up.
- Make sure the tube is not damaged by sharp tools or objects. It can result in tube rupture.
- Make sure no excessive twisting, bending or twirling of tube occurs. It can result in tube rupture or slippage.
- Do not use where sparks occur.

DPE PolyEthylene tube

(Unit:INCH)

Parts No.	Tube O.D	Tube I.D	Wall	Reel Length (m)
DPE 1/8-24	1/8	0.094	0.75	500
DPE 5/32-24	5/32	0.094	0.75	500
DPE 3/16-32	3/16	0.126	0.75	400
DPE 1/4-43	1/4	0.169	1	300
DPE 5/16-48	5/16	0.189	1	200
DPE 3/8-64	3/8	0.252	1.5	150
DPE 1/2-95	1/2	0.374	1.5	100

NYLON TUBES

Usages

- Widely used for pneumatic tool tubing.
- Used for chemical plant pneumatic piping, medical industry and food industry.

Features

- Excellent wear resistance, climate resistance and bending fatigue resistance, hence longer useful life.
- Excellent pressure resistance, vibration resistance and heat resistance.
- Light and flexible to facilitate tubing work.
- Food originated material use allows these tubes to be used for medical devices and food handling devices.

Colors

Code	Color	3㎜	4㎜	6㎜	8㎜	10㎜	12㎜
BL	Blue	○	○	○	○	○	○
YE	Yellow	○	○	○	○	○	○
WT	White	○	○	○	○	○	○
NA	Natual	○	○	○	○	○	○
BK	Black	○	○	○	○	○	○
RE	Red	○	○	○	○	○	○
GR	Gray	○	○	○	○	○	○
GN	Green	○	○	○	○	○	○

※ Colors may be used by usage or by fluid medium.

Max Operating Pressure & Temperature

Category	3㎜, 4㎜, 6㎜, 8㎜, 10㎜, 12㎜
Material	Nylon
Operating Pressure	0 ~ 1.0Mpa (10kgf/cm²)
Vacuum Pressure	−750mmHg (10Torr)
Operating Temperature	−15℃ ~ 60℃
Fluid Medium	Air(No other gases or liquids)

※ Max op pressure can vary by operating temperature.

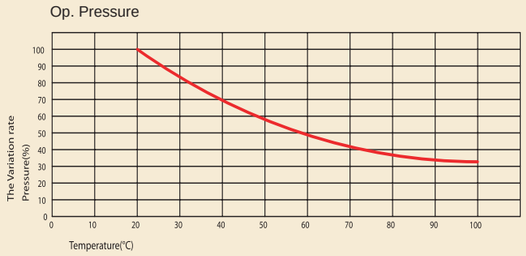
ORDER INFORMATION

DN 0425 (M) BL 0200

- 0200 → Tube length
- BL → Color : Blue
- M → Size: mm
- DN 0425 → Part No.(O.D & I.D)

Tube O.D	1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2"
Tube I.D	TUBE I.D : Metric Size(mm)
사용예	DN 5/32−20 : Nylon Tube Tube O.D : 5/32" Tube I.D : 2.0(mm)

Operating pressure graph



⚠ Safety Instruction

- Do not bend the tube beyond its minimum bending radius.
- Cut tube sufficient length in consideration of future length adjustment possibility.
- Ensure tube is cut squarely with fitting surface. Also, avoid oblong cross section area of tube when cutting.

⚠ Warning

- Do not use product other than for air. Gas decomposition can result in tube cracking or splitting, thus leading to gas leak.
- Do not store or install this product close to a heating device. Tube heating can result in blow up.
- Make sure the tube is not damaged by sharp tools or objects. It can result in tube rupture.
- Make sure no excessive twisting, bending or twirling of tube occurs. It can result in tube rupture or slippage.
- Do not use where sparks occur.

DN Nylon Tube

(Unit :INCH)

Parts No.	Tube O.D	Tube I.D	Wall	Reel Length (m)
DN 1/8-16	1/8	0.063	0.031	200
DN1/8-20	1/8	0.079	0.024	200
DN 5/32-20	5/32	0.079	0.039	200
DN 5/32-25	5/32	0.098	0.030	200
DN 3/16-35	3/16	0.138	0.024	200
DN 1/4-46	1/4	0.181	0.875	100
DN 5/16-60	5/16	0.236	0.039	100
DN 3/8-69	3/8	0.272	0.052	100
DN 1/2-95	1/2	0.374	0.063	100

THE OTHER PARTS

⚠ Instructions on Using Tube Cutter

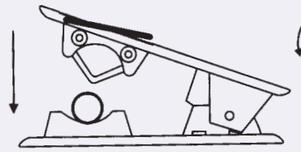


Figure ①

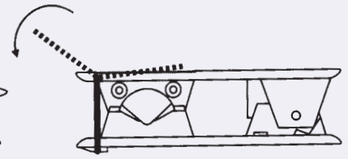
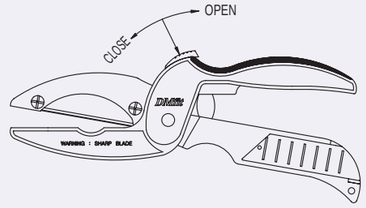


Figure ②

- When using Tube Cutter, as shown in Figure ①, raise cutter clip upward, insert Tube into Cutter groove, apply force in arrow direction while making sure that no body part comes in touch with the blade.
- When not using Tube Cutter, rotate the Cutter clip as in Figure ② and fix it with the base to prevent injury from the Cutter blade.
- Use this device for cutting of various Plastic Tubes only.

⚠ Hand Tube Cutter



- Be Careful with the Sharp Blade during the usage
- Keep the Lock as no usage

TC Tube Cutter

Parts No.	Tube O.D (Minimum)	Tube O.D (Maximum)	Qty(EA)
TC	5/32(4mm)	1/2(13mm)	

HTC Hand Tube Cutter

Parts No.	Tube O.D (Minimum)	Tube O.D (Maximum)	Qty(EA)
HTC(Nylon)	5/32(4mm)	5/8(16mm)	

COUPLER SERIES

ORDER INFORMATION

R — SH — 20

- 20 → Product Size
- SH → Product Type
- R → Model No.

Specification

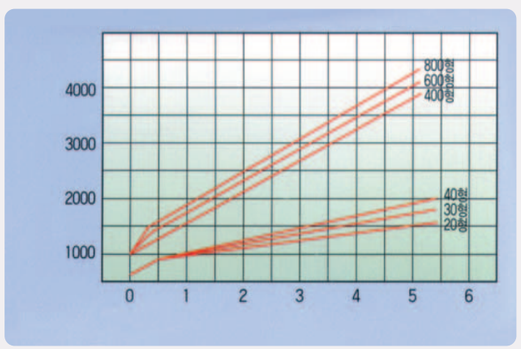
Fluid Media	Air, Water, Oil		
Material	Zinc (chrome-plated)	Steel (chrome-plated)	Stainless steel
Op. Pressure	10 kgf/cm² (1000kPA)	10 kgf/cm² (1000kPA)	15kgf/cm² (1500kPA)
Max Op. Pressure	15 kgf/cm² (1500kPA)	20 kgf/cm² (2000kPA)	20kgf/cm² (2000kPA)

Usages

- These products are used for connection of air pressure piping.
- Couplers are applied on pneumatic tools (such as drills and impactors).
- Some couplers are applied to tubing of chemicals, steam or oil.
- Couplers are widely used for piping of cooling water for various mold machines.

Features

- These couplers are uni-directional open-close couplers with an automatic open-close valve imbedded into a hole.
- Couplers are widely used for hose connection of pneumatic tools and air supply piping within a factory.
- Material is zinc so that products are light and small to facilitate handling.
- These products are manufactured with high precision machining skill. Thus, they are high pressure couplers with high degree of air seal.
- These products are small and light and are applicable in wide variety of situations.
- When assembling a plug, the assembly can be done in one-touch mode.



Safety Instruction

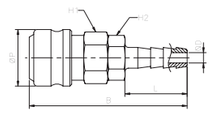
- When connecting a plug into a socket, first make sure the product operation has been stopped before attempting the connection. Incomplete product connection can cause separation of product when the device is placed in operating mode. Upon product connection, pull it lightly with hand to ensure complete connection.
- When dust or foreign matters are allowed within the product, they can cause problems with the product functions.
- When connecting a screw type coupler, make sure the maximum connection torque is not exceeded. Otherwise, it can cause damage to the product.
- When inserting tube into socket body, apply some silicon sealer and insert fully to ensure firm fixation.

Warning

- Do not detach or attach or handle product while applying pressure on the product. Such actions can cause injury.
- Couplers must not be used in place of another part.
- Fluid flow must be in the direction from socket to plug.
- Avoid using these products on devices that are subject to twisting, significant load, vibration or shock.
- When using this product together with a vibration tool, apply rubber hose (30Cm) as a connector between tool and the product.

RING-S QUICK COUPLER / STEEL

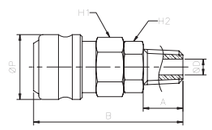
QSH (HOSE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Tube O.D ØD	B	ØP	H1	H2	ØD	L	Wegiht (g)
211	QSH20	9.5	80	26	21.5	19	5	30	104
212	QSH30	11.5	82	26	21.5	19	6.5	32	108
214	QSH40	16	84	26	24	21	9	34	130

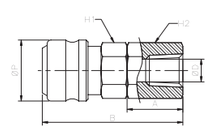
QSM (MALE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØP	H1	H2	ØD	A	Wegiht (g)
216	QSM20	PT 1/4	65	26	21.5	19	7	13	103
217	QSM30	PT 3/8	66	26	21.5	19	9	14	108
218	QSM40	PT 1/2	68	26	24	21	9	16	128

QSF (FEMALE)/SOCKET

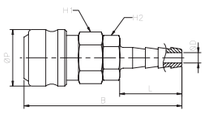


(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØP	H1	H2	ØD	A	Wegiht (g)
221	QSF20	PT 1/4	58	26	21.5	19		15	103
222	QSF30	PT 3/8	60	26	24	21		17	107
223	QSF40	PT 1/2	62	26	28.5	25		19	121

RING-S Hi COUPLER / STEEL

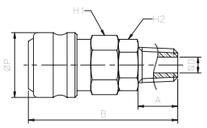
RSH (HOSE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Tube O.D ∅D	B	∅P	H1	H2	∅D	L	Wegiht (g)
226	RSH20	9.5	72	26	21.5	19	5	30	100
227	RSH30	11.5	74	26	21.5	19	6.5	32	106
228	RSH35	14	76	26	21.5	19	9	34	111
229	RSH40	16	76	26	24	21	9	34	127

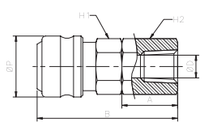
RSM (MALE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Thread Size	B	∅P	H1	H2	∅D	A	Wegiht (g)
231	RSM20	PT 1/4	57	26	21.5	19	7	13	101
232	RSM30	PT 3/8	58	26	21.5	19	9	14	105
233	RSM40	PT 1/2	60	26	24	21	9	16	125

RSF (FEMALE)/SOCKET

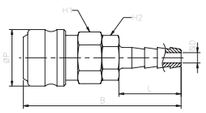


(Unit:mm)

Model No.	Parts No.	Thread Size	B	∅P	H1	H2	∅D	A	Wegiht (g)
236	RSF20	PT 1/4	50	26	21.5	19		15	100
237	RSF30	PT 3/8	52	26	24	21		17	104
238	RSF40	PT 1/2	54	26	28.5	25		19	119

ONE TOUCH-COUPLER / ZINC

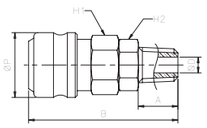
OSH (HOSE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Tube O.D ∅D	B	∅P	H1	H2	∅D	L	Wegiht (g)
256	OSH20	15	80	26.5	21.5	19	5	30	88
257	OSH30	21	82	26.5	21.5	19	6.5	32	93
258	OSH40	27	84	26.5	24	21	9	34	105

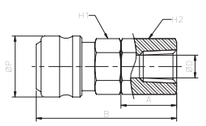
OSM (MALE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Thread Size	B	∅P	H1	H2	∅D	A	Wegiht (g)
261	OSM20	PT 1/4	65	26.5	21.5	19	7	13	88
262	OSM30	PT 3/8	66	26.5	21.5	19	9	14	94
263	OSM40	PT 1/2	68	26.5	24	21	9	16	106

OSF (FEMALE)/SOCKET

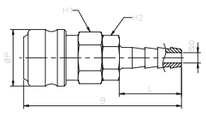


(Unit:mm)

Model No.	Parts No.	Thread Size	B	∅P	H1	H2	∅D	A	Wegiht (g)
266	OSF20	PT 1/4	58	26.5	21.5	19		15	90
267	OSF30	PT 3/8	60	26.5	24	21		17	95
268	OSF40	PT 1/2	62	26.5	28.5	25		19	106

HI COUPLER / ZINC

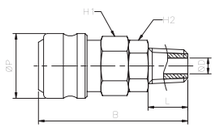
SH (HOSE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Tube O.D ØD	B	ØP	H1	H2	ØD	L
271	SH20	9.5	72	26.5	21.5	19	5	30
272	SH30	11	74	26.5	21.5	19	6.5	32
273	SH40	15	76	26.5	24	21	9	34

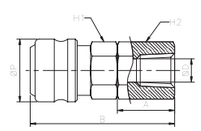
SM (MALE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØP	H1	H2	ØD	A
276	SM20	PT 1/4	57	26.5	21.5	19	7	13
277	SM30	PT 3/8	58	26.5	21.5	19	9	14
278	SM40	PT 1/2	60	26.5	24	21	9	16

SF (FEMALE)/SOCKET

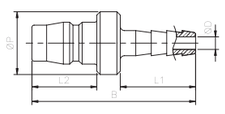


(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØP	H1	H2	ØD	A
281	SF20	PT 1/4	50	26.5	21.5	19		15
282	SF30	PT 3/8	52	26.5	24	21		17
283	SF40	PT 1/2	54	26.5	28.5	25		19

RING-S PLUG / STEEL

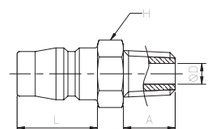
RPH (HOSE)/PLUG



(Unit:mm)

Model No.	Parts No.	Tube O.D ØD	B	ØD	ØP	L1	L2	Weight (g)
411	RPH20	9.5	58	5	16	30	20.5	32
412	RPH30	11.5	60	6.5	16	32	20.5	33
413	RPH35	14	62	9	21	34	20.5	45
414	RPH40	16	62	9	21	34	20.5	59

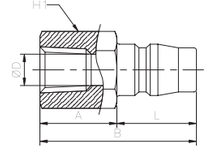
RPM (MALE)/PLUG



(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØD	H(Hex)	A	L	Weight (g)
416	RPM20	PT 1/4	42	7	14/16	13	20.5	26
417	RPM30	PT 3/8	43	9	19/21.5	14	20.5	42
418	RPM40	PT 1/2	45	9	21/24	16	20.5	59

RPF (FEMALE)/PLUG

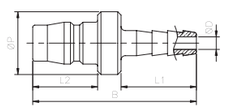


(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØD	H(Hex)	A	L	Weight (g)
421	RPF20	PT 1/4	36		19/21.5	15.5	20.5	27
422	RPF30	PT 3/8	38		21/24	17.5	20.5	38
423	RPF40	PT 1/2	40		25/28.5	19.5	20.5	49

HI-PLUG / ZINC

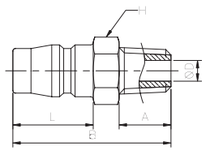
PH (HOSE)/PLUG



(Unit:mm)

Model No.	Parts No.	Tube O.D ØD	B	ØD	ØP	L1	L2
426	PH20	9.5	58	9	16	30	20
427	PH30	11	60	6.5	16	32	20
428	PH40	15	62	9	21	34	20

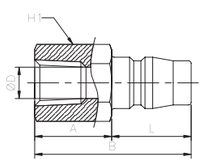
PM (MALE)/PLUG



(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØD	H(Hex)	A	L
431	PM20	PT 1/4	42	7	14/16	13	20
432	PM30	PT 3/8	43	9	19/21.5	14	20
433	PM40	PT 1/2	45	9	21/24	16	20

PF (FEMALE)/PLUG

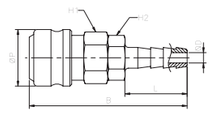


(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØD	H(Hex)	A	L
436	PF20	PT 1/4	35	7	19/21.5	15	20
437	PF30	PT 3/8	37	9	21/24	17	20
438	PF40	PT 1/2	39	9	25/28.5	19	20

BIG-SIZE COUPLER / STEEL

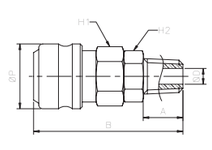
SH (HOSE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Tube O.D ØD	B	ØP	H1	H2	ØD	L	Wegiht (g)
511	SH400	15	84	35	34.5	30	9	36	220
512	SH600	21	93	35	34.5	30	14	45	238
513	SH800	27	103	35	34.5	30	18	55	302

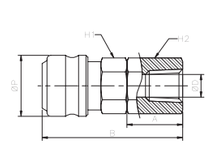
SM (MALE)/SOCKET



(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØP	H1	H2	ØD	A	Wegiht (g)
516	SM400	PT 1/2	64	35	34.5	30	14	16	203
517	SM600	PT 3/4	66	35	34.5	30	18	19	228
518	SM800	PT 1	70	35	40	35	20	22	280

SF (FEMALE)/SOCKET

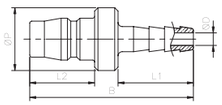


(Unit:mm)

Model No.	Parts No.	Thread Size	B	ØP	H1	H2	ØD	A	Wegiht (g)
521	SF400	PT 1/2	58	35	34.5	30		17	216
522	SF600	PT 3/4	62	35	40	35		21	256
523	SF800	PT 1	71	35	47	41		30	320

BIG-SIZE PLUG / STEEL

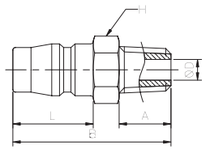
PH (HOSE)/PLUG



(Unit :mm)

Model No.	Parts No.	Tube O.D ∅D	B	∅D	∅P	L1	L2	Wegiht (g)
526	PH400	9.5	68	9	21	36	24	79
527	PH600	11.5	77	14	30	45	24	129
528	PH800	14	87	18	34	55	24	181

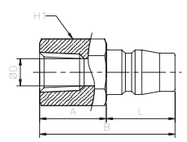
PM (MALE)/PLUG



(Unit :mm)

Model No.	Parts No.	Thread Size	B	∅D	H(Hex)	A	L	Wegiht (g)
531	PM400	PT 1/2	52	14	14/16	16	24	75
532	PM600	PT 3/4	56	18	19/21.5	19	24	121
533	PM800	PT 1	64	20	21/24	22	24	221

PF (FEMALE)/PLUG



(Unit :mm)

Model No.	Parts No.	Thread Size	B	∅D	H(Hex)	A	L	Wegiht (g)
536	PF400	PT 1/2	41		19/21.5	17	24	94
537	PF600	PT 3/4	45		21/24	21	24	135
538	PF800	PT 1	54		25/28.5	30	24	229

TSP Coupler / BRASS, SUS

Model No.	Parts No.	PT Thread
546	TPF 02	PT 1/4
547	TPF 03	PT 3/8
548	TPF 04	PT 1/2
549	TPF 06	PT 3/4
550	TPF 08	PT 1
556	TPM 02	PT 1/4
557	TPM 03	PT 3/8
558	TPM 04	PT 1/2
559	TPM 06	PT 3/4
560	TPM 08	PT 1

Model No.	Parts No.	PT Thread
541	TSF 02	PT 1/4
542	TSF 03	PT 3/8
543	TSF 04	PT 1/2
544	TSF 06	PT 3/4
545	TSF 08	PT 1
551	TSM 02	PT 1/4
552	TSM 03	PT 3/8
553	TSM 04	PT 1/2
554	TSM 06	PT 3/4
555	TSM 08	PT 1

Mold Coupler / BRASS

Model No.	Parts No.	PT Thread
3011	BS	PT 1/8
3012	BS	PT 1/4
3013	BS	PT 3/8
3014	FS	PT 1/8
3015	FS	PT 1/4
3016	FS	PT 3/8
3017	HS	M 09
3018	HS	M 11

Model No.	Parts No.	PT Thread
3020	BP	PT 1/8
3021	BP	PT 1/4
3022	BP	PT 3/8
3023	FP	PT 1/8
3024	FP	PT 1/4
3025	FP	PT 3/8
3026	HP	M 09
3027	HP	M 11

LINE COUPLER

Model No.	Parts No.	LINE	Wegiht (g)
611	OL/C2	One Touch Coupler with 2 outlet	222

Model No.	Parts No.	LINE	Wegiht (g)
616	L/C2	High Coupler with 2 outlet	205

Model No.	Parts No.	LINE	Wegiht (g)
612	OL/C3	One Touch Coupler with 3 outlet	325

Model No.	Parts No.	LINE	Wegiht (g)
617	L/C3	High Coupler with 3 outlet	298

Model No.	Parts No.	LINE	Wegiht (g)
613	ORL/C3	One Touch Coupler with 3 round type outlet	326

Model No.	Parts No.	LINE	Wegiht (g)
618	RL/C3	High Coupler with round type 3 outlet	302

COUPLER SERIES

NUT PLUG / SOCKET & PLUG

Model No.	Parts No.	POLYURETHANE COIL TULE	Material	Weight (g)
311	QSN8	∅5 X ∅8	STEEL	121
312	QSN10	∅6.5 X ∅10	STEEL	131
313	QSN12	∅8 X ∅12	STEEL	136
316	RSN8	∅5 X ∅8	STEEL	118
317	RSN10	∅6.5 X ∅10	STEEL	128
318	RSN12	∅8 X ∅12	STEEL	133
326	OSN8	∅5 X ∅8	ZINC	102
327	OSN10	∅6.5 X ∅10	ZINC	110
328	OSN12	∅8 X ∅12	ZINC	115
331	SN 8	∅5 X ∅8	ZINC	95
332	SN10	∅6.5 X ∅10	ZINC	103
333	SN12	∅8 X ∅12	ZINC	107
336	RPN8	∅5 X ∅8	STEEL	35
337	RPN10	∅6.5 X ∅10	STEEL	45
338	RPN12	∅8 X ∅12	STEEL	54
341	PN8	∅5 X ∅8	ZINC	33
342	PN10	∅6.5 X ∅10	ZINC	43
343	PN12	∅8 X ∅12	ZINC	52

AIR GUN

ORDER INFORMATION

AG - 10

- 10 → Product Size
- AG → Model No.

Specification

Fluid Media	Air (No other gases or liquids)
Op. pressure	0~1.0MPa(0~10kgf/cm²)
Op. Temperature	0~60℃(32~140°F)

Usages

- In general, air guns are used for product cleaning.
- Air guns are suitable for removing foreign matters from small devices and surroundings.

Features

- Nozzle lengths come in diverse lengths to facilitate cleaning of hazardous area or extraction of parts.
- Engineering plastic is used so that the products are light and durable.
- Air blow rate can be adjusted easily.

⚠ Safety Instruction

- Read the safety instruction (page 5) of this product brochure before using a product.
- When cleaning a machine, stop the machine completely before using this product for cleaning.
- Do not apply strong shock to this product body. It can be damaged and result in air leak.

AIR GUN PLASTIC

(Unit:mm)

Model No.	Parts No.	Nozzle (mm)	Qty (EA)
711	AG-10	10	
712	AG-100	100	
713	AG-200	200	
714	AG-300	300	

AIR GUN ALUMINIUM

(Unit:mm)

Model No.	Parts No.	Nozzle (mm)	Qty (EA)
716	AG-10	10	
171	AG-100	100	
718	AG-200	200	
719	AG-300	300	

SILENCERS

ORDER INFORMATION

Specification

Model / Application	ST (PT1/8)	ST (PT1/4)	ST (PT3/8)	ST (PT1/2)	MST (PT1/8)	MST (PT1/4)	MST (PT3/8)	MST (PT1/2)
Max Working Pressure	7kgf/cm² (700kPa)			9kgf/cm² (900kPa)	7kgf/cm² (700kPa)			9kgf/cm² (900kPa)

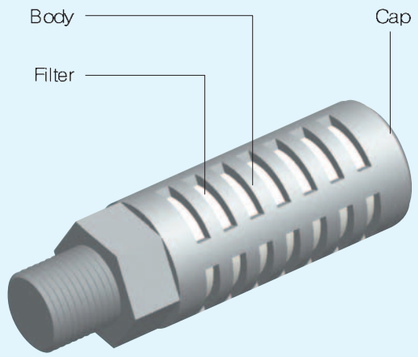
Usage

- Silencers are applied to exhaust port of a device to reduce the noise caused by the exhaust air.

Features

- Silencers are excellent at reducing noise level.
- These are plastic products, not steel or aluminum, so that they are light and durable.
- These products are compact and thus are useful for small devices and confined spaces.

Diagram



Safety Instruction

- Read safety instruction (page 5) of this product brochure before using the products.
- Silencers, when used over a long period of time, can experience blocking of filter slots and thus increase back pressure and negatively impact the device.
- Silencers should be replaced periodically to prevent device damage. Since the silencer screw area does not come with a sealant, apply Teflon tape for device assembly to prevent air leak.
- Excessive application of pressure on silencer for assembly can result in device damage.

SILENCER

(Unit:mm)

Parts No.	PT Thread	Qty (EA)
ST 02	1/8	100
ST 04	1/4	100
ST 06	3/8	25
ST 07	1/2	25
ST 09	3/4	20
ST 10	11	20

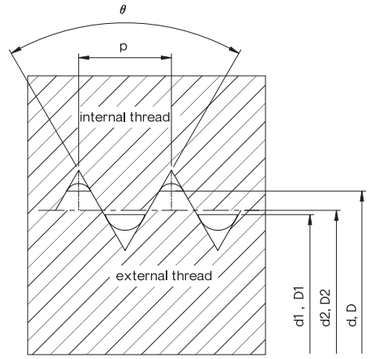
METAL SILENCER

(Unit:mm)

Parts No.	PT Thread	Qty (EA)
MST 02	1/8	100
MST 04	1/4	100
MST 06	3/8	25
MST 07	1/2	25
MST 09	3/4	20
MST 10	11	20

PARALLEL THREAD

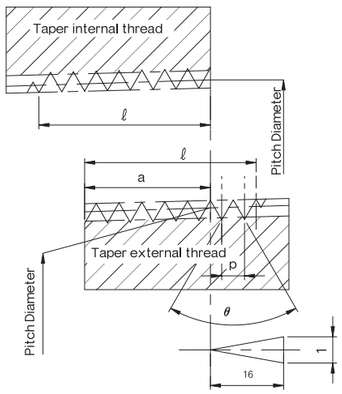
- BSP(P): British Standard Pipe Parallel Thread
- UNF: Unified National Fine Thread
- UNS: Unified National Special Thread
- UN: Unified National Thread
- UNEF: Unified National Extra Fine
- NPSM: National Pipe Straight Mechanical Thread
- NH: National Hose coupling Thread
- BSW : British Standard whitworth Thread



Nominal Size		Angle (θ)	Pitch of Thread (p)	Female Major Dia.(D)	Female Pitch Dia. (D2)	Female Minor Dia.(D1)
				Male Major Diam. (d)	Male Pitch Diam. (d2)	Male Minor Diam.(d1)
1/8-28 BSPP(PF)		55	0.907	9.728	9.147	8.566
1/4-19 BSPP(PF)			1.337	13.157	12.301	11.445
3/8-19 BSPP(PF)			1.337	16.662	15.806	14.950
1/2-14 BSPP(PF)			1.814	20.955	19.793	18.631
5/8-14 BSPP(PF)			1.814	22.911	21.749	20.587
3/4-14 BSPP(PF)			1.814	26.411	25.279	24.117
7/16-20 UNF		60	1.270	11.112	10.287	9.738
1/2-20 UNF			1.270	12.70	11.874	11.326
5/8-18 UNF			1.4111	15.875	14.958	14.348
3/4-16 UNF			1.5875	19.05	18.019	17.33
7/16-24 UNS	2B	60	1.058	11.113	10.549	10.211
	2A			11.085	10.396	9.825
1/2-16 UN	2B	60	1.588	12.700	11.824	11.328
	2A			12.664	11.633	10.772
9/16-24 UNEF	2B	60	1.058	14.288	13.729	13.386
	2A			14.257	13.569	12.997
1/2-14 NPSM		60	1.814	20.904	19.942	19.279
				20.904	19.733	19.279
0.75-11.5 NH		60	2.209	27.242	26.022	24.803
				26.988	25.552	24.117
3/8-24 BSW		55	1.588	9.525	8.509	7.492
1/2-24 BSW			2.117	12.700	11.345	9.990
9/16-24 BSW			2.117	14.287	12.931	11.574

TAPER THREAD

- NPTF: National Pipe Taper Fuel Thread
- BSP(T): British Standard Pipe Tapered Thread



Nominal Size	Angle (θ)	Pitch of Thread (p)	Pitch Dia.	Effective Thread External (ℓ)	Nominal Complete External Threads (a)
1/8-27 NPTF	60	0.941	9.489	6.924	4.102
1/4-18 NPTF		1.411	12.487	10.020	5.786
3/8-18 NPTF		1.411	15.926	10.330	6.096
1/2-14 NPTF		1.814	19.772	13.571	8.128
3/4-14 NPTF		1.814	25.117	14.504	8.611
1/8-28 BSPT(PT)	55	0.907	9.147	8.000	3.970
1/4-19 BSPT(PT)		1.337	12.301	11.000	6.010
3/8-19 BSPT(PT)		1.337	15.806	12.000	6.350
1/2-14 BSPT(PT)		1.814	19.793	15.000	8.160
3/4-14 BSPT(PT)		1.814	25.279	17.000	9.530

CHEMICAL RESISTANCE OF PRODUCTS

DMfit® provides excellent resistance to organic chemicals, carbohydrates and chemical detergents (refer to the table). In particular, *DMfit*® products have strong resistance against inorganic chemicals except strong acids, thus they have a wide range of applications.

Chemical (Weight-Temp %, Temp ℃)	Tubes				Fitting						Seal Material		
	Urethane	Nylon	Polyolefin	Fluoride	Brass	SUS304	SUS316	POM	PBT	PP	NBR	EPDM	KFM
Caustic (10% 20℃)	×	○	○	◎	△	△	○	◎	△	○	○	◎	○
Caustic (30% 21℃)	×	○	○	◎	–	–	–	◎	×	○	–	–	–
Caustic (30% 70℃)	×	×	△	○	–	–	–	○	×	△	–	–	–
Gasoline	○	◎	△	◎	○	○	○	◎	◎	△	◎	×	◎
Air	○	○	○	○	◎	◎	◎	◎	◎	◎	◎	◎	◎
Sodium perborate	–	○	○	◎	×	–	○	○	○	○	○	◎	◎
Sodium peroxide	–	×	○	◎	×	–	○	–	–	○	○	◎	◎
Hydrogen peroxide (5%, 20℃)	○	◎	◎	◎	×	○	○	○	○	◎	–	–	–
Hydrogen peroxide (30%, 20℃)	△	△	◎	◎	×	○	○	△	○	◎	–	–	–
Hydrogen peroxide (30%, 70℃)	×	×	○	◎	×	○	○	×	○	○	–	–	–
Perchioric acid	×	×	○	○	×	×	×	×	○	○	–	○	○
Grease	○	◎	△	◎	○	◎	◎	◎	◎	△	◎	×	◎
Sodium silicate	◎	◎	◎	◎	△	–	○	◎	○	◎	◎	◎	◎
Glycerin	○	◎	◎	◎	○	◎	◎	◎	◎	◎	◎	◎	◎
Naphtha	△	○	△	◎	△	○	○	◎	○	△	△	×	◎
Naphthaline	△	◎	△	◎	△	–	△	◎	○	○	×	×	◎
Nitropropane	–	–	○	○	–	–	–	○	–	○	–	–	–
Kerosene	◎	◎	△	◎	◎	◎	◎	◎	◎	△	◎	×	◎
Dichloro benzene	×	△	×	◎	△	–	–	△	△	△	–	–	–
Linoleic acid	–	△	△	○	–	–	–	○	–	△	○	×	○
Maleic acid	△	◎	◎	◎	–	△	△	–	–	◎	–	△	◎
Cottonseed oil	◎	◎	○	◎	△	○	○	◎	–	○	◎	◎	◎
Methane	◎	◎	◎	◎	○	–	△	◎	◎	◎	◎	×	◎
Methyl alcohol(Methanol)	△	○	○	◎	◎	△	○	○	○	○	◎	◎	△
Methyl ethyl ketone(MEK)	×	○	○	○	◎	△	○	○	○	○	×	◎	×
Methyl isobutyl ketone(MIBK)	×	○	○	◎	△	–	△	○	○	○	×	△	×
Monoethanolamine	–	○	△	○	–	–	△	○	–	○	×	○	×
Monochlorobenzene	×	×	×	○	–	–	–	○	–	×	×	×	◎
Chloroacetic acid	×	×	×	○	–	–	–	△	△	×	–	–	–

Chemical (Weight-Temp %, Temp ℃)	Tubes				Fitting						Seal Material		
	Urethane	Nylon	Polyolefin	Fluoride	Brass	SUS304	SUS316	POM	PBT	PP	NBR	EPDM	KFM
Hydrofluoric acid Anhydride	×	×	×	○	×	–	×	×	–	×	–	◎	–
Acetic Anhydride	×	×	△	○	×	○	○	×	–	△	△	○	×
Water(24℃)	◎	◎	◎	◎	○	○	○	◎	○	◎	◎	◎	◎
Water(100℃)	△	△	△	◎	×	○	○	△	×	△	–	–	–
Sea Water	◎	◎	◎	◎	△	○	○	◎	○	◎	–	–	–
Bunker oil	–	○	○	–	△	–	○	–	–	○	◎	–	◎
Benzene(Benzol)	×	○	×	◎	×	△	△	○	○	△	×	×	◎
Butane	◎	○	△	◎	◎	◎	◎	◎	◎	◎	◎	×	◎
fluorine	×	–	×	×	×	×	△	×	–	×	–	△	○
Borax	◎	◎	◎	◎	×	–	○	–	–	◎	○	◎	◎
Boric acid	◎	◎	◎	◎	○	○	○	○	○	◎	◎	◎	◎
Amyl borate	–	–	△	○	–	–	–	○	–	△	◎	×	◎
Bromine	×	×	×	◎	×	–	×	×	×	△	–	–	◎
Arsenic acid	–	△	○	○	△	○	○	–	–	○	–	–	–
Carbon tetrachloride	×	△	×	◎	△	△	△	○	○	△	△	×	◎
Oxygen	○	○	○	◎	◎	◎	◎	○	○	○	◎	◎	◎
Petroleum	◎	◎	×	◎	–	–	–	○	○	×	◎	×	◎
Salt Water	–	○	○	○	×	△	△	◎	○	○	–	–	–
Soda Water	○	○	○	○	–	–	–	◎	○	○	–	–	–
Soda ash→Sodium carbonate	◎	◎	◎	◎	○	△	△	◎	○	◎	◎	◎	◎
Pine oil	–	×	○	○	△	○	◎	–	○	○	○	×	◎
Oxalic acid	△	◎	◎	◎	△	△	△	×	○	◎	○	◎	◎
Ethyl oxalate	×	○	×	○	–	–	–	○	○	×	×	◎	◎
Magnesium hydroxide	△	◎	◎	◎	△	–	△	◎	×	○	○	◎	◎
Barium hydroxide	–	○	○	◎	×	–	◎	◎	△	○	◎	◎	◎
Ammonium hydroxide	△	○	◎	◎	×	△	○	◎	×	◎	×	◎	○
Potassium hydroxide	△	△	◎	◎	△	△	△	◎	×	○	○	◎	○
Calcium hydroxide	△	◎	◎	◎	△	△	△	◎	×	○	◎	◎	◎
Hydrogen	◎	◎	◎	◎	△	◎	◎	◎	◎	◎	◎	◎	◎
Marcury	–	○	○	○	×	–	△	–	–	◎	◎	◎	◎
Steam (150℃)	×	×	×	○	○	–	○	△	△	×	×	◎	×
Steam (150℃)	×	×	×	○	–	–	–	×	×	△	×	○	×
Vegetable oil	–	○	○	○	–	–	–	○	○	○	◎	◎	◎
Salt Water	○	◎	◎	◎	△	△	△	◎	○	◎	–	–	–
Silicone greases	–	○	△	○	–	–	–	◎	◎	△	◎	◎	◎
Silicone oil	–	○	△	○	–	–	–	◎	◎	△	◎	◎	◎
Glue	–	○	○	◎	△	–	△	–	–	◎	–	–	–
Aniline	×	×	×	○	×	△	△	○	○	△	×	○	△

Chemical (Weight-Temp %, Temp ℃)	Tubes				Fitting						Seal Material		
	Urethane	Nylon	Polyolefin	Fluoride	Brass	SUS304	SUS316	POM	PBT	PP	NBR	EPDM	KFM
Amyl naphtalene	–	–	△	○	–	–	–	◎	◎	△	×	×	○
Amyl alcohol	○	○	○	○	○	△	△	◎	◎	○	○	◎	○
Acetone	×	○	△	○	◎	△	○	○	○	△	×	◎	×
Acetamide	–	–	△	○	–	–	–	○	○	△	◎	◎	○
Acetaldehyde	○	○	△	○	◎	○	◎	○	○	○	×	◎	×
Acetylence	◎	◎	◎	◎	×	○	◎	○	◎	◎	○	◎	◎
Sulfurous acid	×	×	○	◎	×	△	△	×	○	○	○	○	◎
Sulfurous acid gas	×	×	△	◎	–	–	○	△	○	○	○	○	◎
Sodium sulfite	–	△	○	◎	○	○	◎	◎	○	○	–	–	–
Ammonia	–	○	○	◎	△	◎	◎	○	△	○	◎	◎	×
Ammonia gas	×	△	△	○	×	○	○	○	△	△	◎	◎	×
Ammonia gas	×	×	×	○	×	○	○	○	×	×	◎	◎	–
Liquid Ammonia	–	○	○	○	○	◎	◎	○	△	○	–	–	–
Chlorine Liquide	×	×	×	○	–	–	–	×	○	×	–	–	–
Liquefied petroleum gas (LPG)	–	○	△	○	◎	◎	◎	◎	◎	△	◎	×	◎
Ethanolamine	–	△	△	○	–	–	–	◎	△	△	○	○	×
Ethylene glycol	◎	◎	◎	◎	△	△	△	◎	○	◎	◎	◎	◎
Ethyl cellulose	–	–	○	◎	–	–	△	◎	◎	◎	–	○	×
Ethy alcohol(Ethanol)	△	○	○	◎	◎	○	◎	◎	◎	○	◎	◎	◎
Lye solution	–	○	○	○	–	–	–	◎	○	○	○	◎	○
Hydrochloric acid (10%, 20℃)	△	○	◎	◎	×	×	×	×	○	◎	–	–	–
Hydrochloric acid (20%, 20℃)	×	×	○	◎	×	×	×	×	△	○	–	–	–
Hydrochloric acid (20%, 80℃)	×	×	×	○	×	×	×	×	×	×	×	△	◎
Hydrochloric acid (38%, 20℃)	×	×	○	◎	×	×	×	×	△	○	○	◎	◎
Magnesium chloride	◎	◎	◎	◎	△	△	○	◎	○	◎	◎	◎	◎
Methyle chloride	×	△	×	○	○	○	◎	◎	–	×	×	△	◎
Barium chloride	◎	◎	◎	◎	×	–	○	–	○	◎	◎	◎	◎
Zinc chloride	◎	○	◎	◎	×	△	○	×	○	◎	◎	◎	◎
Acetyl chloride	×	×	×	–	–	–	△	×	–	×	–	–	◎
Aluminum chloride	–	△	○	◎	×	×	×	–	○	◎	◎	◎	◎
Ammouniu chloride	○	◎	◎	◎	×	△	△	◎	○	◎	◎	◎	◎
Etyle chloride	×	◎	×	–	○	◎	◎	◎	–	×	◎	◎	◎
Sulfur chloride	–	–	△	◎	×	–	△	–	–	△	△	×	◎
Kalium chloride	○	◎	◎	◎	△	△	○	◎	◎	◎	◎	◎	◎
Calcium chloride	△	◎	◎	◎	○	△	△	◎	○	◎	◎	◎	◎
Ozone	△	○	△	◎	○	○	○	△	◎	△	○	◎	◎

Chemical (Weight-Temp %, Temp ℃)	Tubes				Fitting						Seal Material		
	Urethane	Nylon	Polyolefin	Fluoride	Brass	SUS304	SUS316	POM	PBT	PP	NBR	EPDM	KFM
Oleic acod	△	○	△	◎	△	△	△	△	◎	○	△	○	○
Olive oil	○	○	○	◎	△	◎	◎	○	◎	○	◎	○	◎
Uric acid	×	○	–	○	–	–	–	○	○	–	–	–	–
Aqua acid	×	×	×	○	–	–	–	×	–	△	–	△	○
Lactic acid	–	○	○	◎	×	△	△	○	○	◎	◎	◎	◎
Sulfur	△	○	◎	◎	×	○	○	◎	–	◎	×	◎	◎
Lubricating oil(Pertroleum base)	◎	◎	×	◎	◎	◎	◎	◎	◎	×	◎	×	◎
Lubricating oil(Easter base)	×	○	×	○	◎	◎	◎	◎	○	×	–	–	–
Isooctane	△	○	×	○	◎	○	○	◎	◎	×	◎	×	◎
isopropyl alchol	–	△	◎	◎	○	○	○	◎	○	◎	×	◎	◎
isopropyl ether	–	△	△	○	◎	○	○	◎	○	○	○	×	×
Carbon disulfide	×	○	×	○	○	○	○	○	–	×	△	×	○
Phenyle disulfide	△	○	–	○	–	–	–	–	–	–	–	–	–
Carbon monoxide	◎	◎	◎	◎	◎	◎	◎	◎	○	◎	◎	◎	◎
Gelatin	○	○	○	○	◎	◎	◎	○	○	◎	◎	◎	◎
Heavy water	◎	◎	◎	◎	–	–	–	◎	○	◎	–	–	–
Soap soultions	○	◎	△	◎	◎	◎	◎	◎	○	○	◎	◎	◎
Sodium nitrate	○	◎	◎	◎	○	○	◎	○	○	◎	○	◎	–
Aluminium nitric	△	○	○	◎	–	–	△	○	○	○	◎	◎	–
Ammonium nitric	○	◎	◎	◎	×	○	○	○	○	◎	◎	◎	–
Kalium nitric	◎	○	◎	◎	△	△	△	○	○	◎	◎	◎	◎
Calcium nitric	–	○	○	◎	–	–	–	○	○	◎	◎	◎	◎
Nitrogen	○	○	○	◎	○	◎	◎	◎	○	◎	◎	◎	◎
Natural gas	–	○	○	○	◎	◎	◎	◎	◎	○	◎	×	○
Acetic acid (10%, 20℃)	×	△	◎	◎	×	○	◎	△	○	◎	○	×	◎
Acetic acid (50%, 20℃)	×	×	○	○	×	○	○	×	○	○	–	–	–
Acetic acid (50%, 70℃)	×	×	×	○	×	○	○	×	△	×	–	–	–
Acetic acid (100%, 20℃)	×	×	×	○	×	△	△	×	△	×	–	–	–
Lead acetate	–	○	○	○	–	△	–	–	○	○	○	◎	○
Nickel acetate	–	○	○	◎	–	–	△	–	○	◎	○	◎	×
Zinc acetate	–	○	○	○	–	–	–	○	○	○	○	◎	×
Aluminium acetate	–	○	○	○	–	–	–	○	○	○	○	◎	–
Calcium acetate	○	○	○	◎	△	–	△	○	○	◎	○	◎	×
Cresol	×	×	△	◎	○	△	◎	△	○	○	△	×	◎
Chlorosulfonic acid	–	×	×	○	△	×	×	×	○	×	×	×	△
Chloroacetone	–	–	×	–	–	–	–	–	–	×	×	◎	×
Chlorotoluene	–	×	×	○	–	–	–	○	○	×	×	×	◎
Chloroform	×	○	×	◎	○	○	○	△	△	×	×	×	◎

Chemical (Weight-Temp %, Temp ℃)	Tubes				Fitting						Seal Material		
	Urethane	Nylon	Polyolefin	Fluoride	Brass	SUS304	SUS316	POM	PBT	PP	NBR	EPDM	KFM
Soybean oil	–	○	○	◎	△	○	○	◎	◎	○	◎	△	◎
Tannic acid	△	◎	◎	◎	×	△	△	○	–	◎	◎	◎	◎
Tar	◎	◎	○	◎	△	◎	◎	–	–	○	○	×	◎
Carbonic acid	△	◎	○	◎	○	△	△	–	–	○	◎	◎	◎
Carbon dioxide	○	○	○	◎	○	○	○	◎	◎	◎	–	–	–
Sodium carbonate	◎	◎	◎	◎	○	△	△	◎	○	◎	–	–	–
Asmmonium carbonate	–	○	○	◎	–	△	△	◎	○	○	×	◎	–
Toluene	△	○	△	○	◎	◎	◎	○	△	△	×	×	◎
Triacetin	–	–	○	–	–	–	–	–	–	○	○	◎	×
Phenol	×	×	○	◎	○	○	○	×	○	○	–	○	◎
Glucose	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
Freon 11	–	○	–	○	◎	◎	◎	◎	◎	–	◎	×	◎
Freon 12	–	○	–	○	◎	◎	◎	◎	◎	–	◎	○	○
Freon 21	–	○	–	○	◎	◎	◎	◎	◎	–	×	×	×
Freon 21	–	○	–	○	◎	◎	◎	◎	◎	–	×	◎	×
Freon 113	–	○	–	○	◎	◎	◎	◎	◎	–	◎	×	○
Freon 114	–	○	–	○	◎	◎	◎	◎	◎	–	◎	◎	○
Propane	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	×	◎
Propylene	–	○	–	○	◎	◎	◎	◎	◎	–	×	×	◎
Castor oil	△	◎	◎	◎	○	○	○	○	○	◎	◎	○	◎
Hexane	○	◎	×	◎	○	○	○	◎	◎	△	○	×	◎
Sulfuric acid (10%, 20℃)	×	○	○	◎	×	×	×	×	○	○	×	○	◎
Sulfuric acid (10%, 70℃)	×	×	△	◎	×	×	×	×	×	△	–	–	–
Sulfuric acid (30%, 20℃)	×	×	○	◎	×	×	×	×	△	○	–	–	–
Sulfuric acid (30%, 70℃)	×	×	△	○	×	×	×	×	×	△	–	–	–
Sulfuric acid (98%, 20℃)	×	×	×	○	×	×	×	×	×	×	–	–	–
Sulfuric acid (, 70℃)	×	×	×	○	×	×	×	×	×	×	–	–	–
Sodium sulfate	◎	◎	◎	◎	○	△	○	◎	○	◎	◎	◎	◎
Nickel sulfate	–	○	○	◎	–	△	○	–	○	○	◎	◎	◎
Copper sulfate	◎	◎	◎	◎	○	△	○	◎	○	◎	◎	◎	◎
Magnesium sulfate	◎	◎	◎	◎	○	○	◎	–	○	◎	◎	◎	◎
Metyl sulfate	×	△	×	◎	–	–	–	–	○	×	–	–	–
Barium sulfate	×	○	○	◎	△	○	○	–	○	○	◎	◎	◎
Aluminium sulfate	–	◎	◎	◎	×	○	○	◎	○	◎	◎	◎	◎
Ammonium sulfate	◎	◎	◎	◎	△	△	△	◎	○	◎	◎	◎	–
Lead sulfate	○	○	○	◎	△	–	△	–	○	○	–	–	–
Sodium sulfate	○	○	○	◎	×	△	△	○	○	○	○	◎	◎
Barium sulfate	–	○	○	◎	–	–	○	○	○	○	◎	◎	◎
Zinc sulfate	△	×	◎	◎	△	○	○	○	○	◎	–	–	–
Calcium sulfate	–	○	○	◎	–	–	△	○	○	○	○	◎	◎