

Insertion Type (brass)

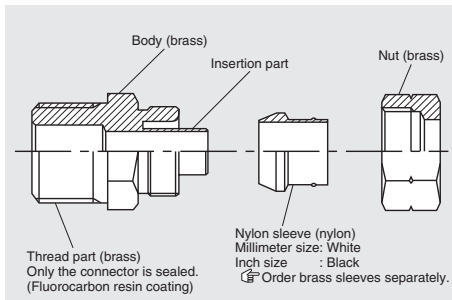
Screw-in type for multi-purpose piping

Features

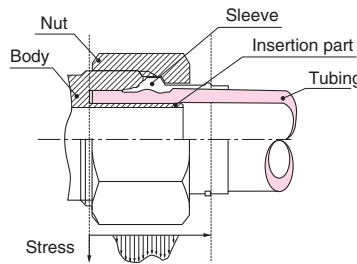
- **Screw-in type**
Consisting of three parts: fitting body, nut and sleeve.
- **High sealing performance**
The insertion part is integrated with a fitting body with high negative-pressure performance.
- **Only the connector is sealed**
Sealing tape is not required.
- **JIS B 8381-1995 (fittings for pneumatic flexible pipes) compliant**



Cross-sectional structure diagram



Sealing mechanism



Operating fluid, working temperature range

	Operating fluid	Working temperature range
Air	Nylon sleeve	-40°C~+80°C
	Brass sleeve	-40°C~+100°C
Water	Nylon sleeve	0°C~+70°C
	Brass sleeve	0°C~+100°C
General operating oil	Nylon sleeve	-40°C~+80°C
	Brass sleeve	-40°C~+100°C

Contact us for various chemical liquids.
See "Combination List of Tubing and Fitting" on page 8.

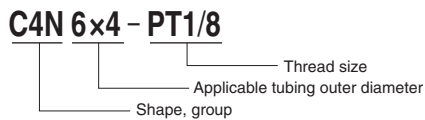
Pressure condition

Maximum working pressure: 5.0MPa
Negative pressure performance:
-101.294kPa

Handling instructions

- ⚠ **Caution:** When the working conditions of tubes and fittings differ, use them under the lower specified conditions.
 - ⚠ **Caution:** For use at a high temperature within the working temperature range, tighten nut periodically. If the nut cannot be tightened further, cut the tubing end and insert the tubing again with a new sleeve.
 - ⚠ **Caution:** When water is used as the operating fluid, do not allow it to freeze.
 - ⚠ **Caution:** Do not bend the pipe sharply near the tubing insertion port (sleeve end) of the fitting. Keep the tubing straight for twice as long as the tubing diameter from the insertion port.
 - ⚠ **Caution:** The brass sleeve cannot be used for a fluorocarbon resin TP tubing. Choose the nylon sleeve instead.
 - ⚠ **Caution:** The outer and the inner diameters of the fitting have to be the same as those of the tubing used.
- See page 34 for the common handling instructions for fittings.

Product number example

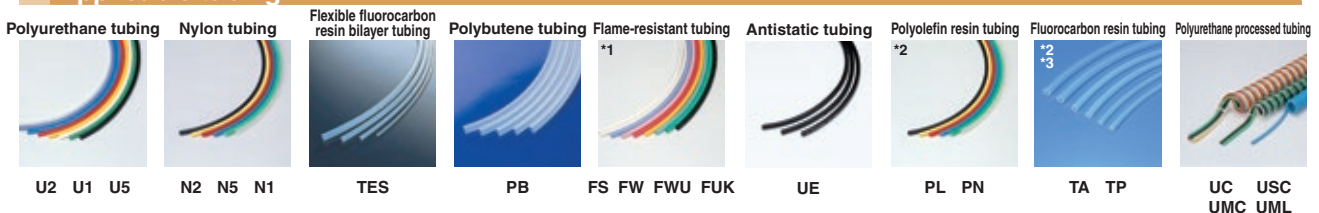


Distinction of millimeter/inch sizes



The inch size type has a black sleeve.
The millimeter size type has a cut at the hexagonal nut.

Applicable tubing



(*1) When QuickSeal series fittings are used on a spatter-resistant line, replace the nylon sleeve with the brass one.
(*2) Combinatory use of PL, PN, TA or TP tubing and QuickSeal series of insertion type (brass) mixes general and clean type performances. When using them together in a clean environment, be aware of how this could lower the cleanliness level.
(*3) The brass sleeve cannot be used for a fluorocarbon resin TP tubing. Choose the nylon sleeve instead.

Related products and product introduction



Reference

Instruction manual.....P.172
Chemical resistance specification table.....P.198
Effective sectional area...P.168
Negative-pressure performance list.....P.169

QuickSeal Series Insertion Type (brass)

Shape list

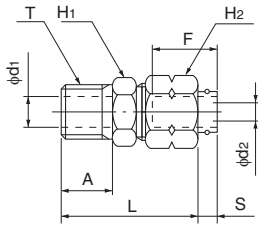


Inch Size NPT Type (Made to order)



- Tubing
- Clean tubing
- Processed tubing
- PushOne fitting
- QuickSeal fitting
- Clean fitting/Chemifit
- Bamboo-shoot fitting
- Control switch/Detachable series
- Jig/Tool/Accessory
- Technical information
- Reference

Connector



●Millimeter size type (Group 4)

Product number	Applicable tubing outer diameter (mm)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
C4N4x2-PT1/8	4x2	R1/8	28.0	11.0	4.7	15	10.0	10.0	5.0	0.9	0.7	13.0
C4N4x2-PT1/4	4x2	R1/4	30.0	12.0	4.7	15	14.0	10.0	7.0	0.9	0.7	20.0
C4N4x2.5-PT1/8	4x2.5	R1/8	28.0	11.0	4.7	15	10.0	10.0	5.0	1.3	1.5	13.0
C4N4x3-PT1/8	4x3	R1/8	28.0	11.0	4.7	15	10.0	10.0	5.0	2.0	3.0	13.0
C4N6x4-PT1/8	6x4	R1/8	28.0	11.0	4.6	15	10.0	12.0	5.0	2.7	5.0	15.0
C4N6x4-PT1/4	6x4	R1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	2.7	5.0	22.0
C4N6x4-PT3/8	6x4	R3/8	31.0	13.0	4.6	15	17.0	12.0	9.0	2.7	5.5	32.0
C4N6x4.5-PT1/8	6x4.5	R1/8	28.0	11.0	4.6	15	10.0	12.0	5.0	3.2	7.5	15.0
C4N6x4.5-PT1/4	6x4.5	R1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	3.2	7.5	23.0
C4N6x4.5-PT3/8	6x4.5	R3/8	31.0	13.0	4.6	15	17.0	12.0	9.0	3.2	7.5	32.0
C4N8x5-PT1/8	8x5	R1/8	27.9	11.0	4.6	16	12.0	14.0	5.0	3.7	10.0	18.0
C4N8x5-PT1/4	8x5	R1/4	29.9	12.0	4.6	16	14.0	14.0	7.0	3.7	10.0	24.0
C4N8x6-PT1/8	8x6	R1/8	27.9	11.0	4.6	16	12.0	14.0	5.0	4.7	16.0	17.0
C4N8x6-PT1/4	8x6	R1/4	29.9	12.0	4.6	16	14.0	14.0	7.0	4.7	16.0	24.0
C4N8x6-PT3/8	8x6	R3/8	30.9	13.0	4.6	16	17.0	14.0	9.0	4.7	17.0	33.0
C4N10x6.5-PT1/4	10x6.5	R1/4	31.1	12.0	4.2	17	17.0	17.0	7.0	5.2	20.5	32.0
C4N10x6.5-PT3/8	10x6.5	R3/8	32.1	13.0	4.2	17	17.0	17.0	9.0	5.2	20.5	38.0
C4N10x7.5-PT1/4	10x7.5	R1/4	31.1	12.0	4.2	17	17.0	17.0	7.0	6.2	30.0	32.0
C4N10x7.5-PT3/8	10x7.5	R3/8	32.1	13.0	4.2	17	17.0	17.0	9.0	6.2	30.0	37.0
C4N10x7.5-PT1/2	10x7.5	R1/2	40.1	18.0	4.2	17	22.0	17.0	12.0	6.2	30.0	68.5
C4N10x8-PT1/4	10x8	R1/4	31.1	12.0	4.2	17	15.0	17.0	7.0	6.7	32.0	29.0
C4N10x8-PT3/8	10x8	R3/8	32.1	13.0	4.2	17	17.0	17.0	9.0	6.7	32.0	37.0
C4N10x8-PT1/2	10x8	R1/2	40.1	18.0	4.2	17	22.0	17.0	12.0	6.7	33.5	80.0
C4N12x8-PT3/8	12x8	R3/8	35.6	13.0	4.8	18	17.0	19.0	9.0	6.6	32.0	47.0
C4N12x8-PT1/2	12x8	R1/2	40.6	18.0	4.8	18	23.0	19.0	12.0	6.6	33.5	75.0
C4N12x9-PT1/4	12x9	R1/4	31.6	12.0	4.8	18	17.0	19.0	7.6	7.6	40.0	34.0
C4N12x9-PT3/8	12x9	R3/8	35.6	13.0	4.8	18	17.0	19.0	9.0	7.6	40.0	40.5
C4N12x9-PT1/2	12x9	R1/2	40.6	18.0	4.8	18	23.0	19.0	12.0	7.6	40.0	74.0
C4N16x13-PT1/2	16x13	R1/2	46.7	18.0	5.1	23	24.0	27.0	12.0	11.0	90.0	108.0

*Made to order

☞ Only the connector is sealed.

●Inch size type (Group 1)

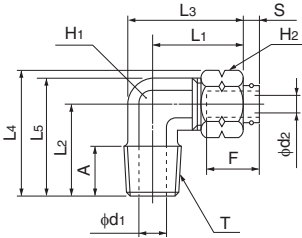
Product number	Applicable tubing outer diameter (inch)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
C1N1/8-PT1/8	1/8	R1/8	28.0	11.0	4.6	15	10.0	8.0	5.0	1.4	1.5	11.0
C1N3/16-PT1/8	3/16	R1/8	28.1	11.0	4.6	15	10.0	10.0	5.0	2.4	4.0	13.0
C1N3/16-PT1/4	3/16	R1/4	30.1	12.0	4.6	15	14.0	10.0	7.0	2.4	4.0	20.0
C1N1/4-PT1/8	1/4	R1/8	28.0	11.0	4.6	15	10.0	12.0	5.0	3.4	8.5	14.0
C1N1/4-PT1/4	1/4	R1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	3.4	8.5	22.0
C1N1/4-PT3/8	1/4	R3/8	31.0	13.0	4.6	15	17.0	12.0	9.0	3.4	8.5	31.0
C1N5/16-PT1/8	5/16	R1/8	27.8	11.0	4.6	16	12.0	14.0	5.0	4.7	16.0	17.0
C1N5/16-PT1/4	5/16	R1/4	29.8	12.0	4.6	16	14.0	14.0	7.0	4.7	16.0	24.0
C1N5/16-PT3/8	5/16	R3/8	30.8	13.0	4.6	16	17.0	14.0	9.0	4.7	17.0	33.0
C1N3/8-PT1/8	3/8	R1/8	28.7	11.0	4.6	17	14.0	17.0	5.7	5.7	22.5	23.0
C1N3/8-PT1/4	3/8	R1/4	30.7	12.0	4.6	17	14.0	17.0	7.5	5.7	22.5	28.0
C1N3/8-PT3/8	3/8	R3/8	31.7	13.0	4.6	17	17.0	17.0	9.0	5.7	22.5	39.0
C1N3/8-PT1/2	3/8	R1/2	39.7	18.0	4.6	17	23.0	17.0	12.0	5.7	24.5	68.0
C1N1/2-PT1/4	1/2	R1/4	31.8	12.0	4.6	18	17.0	19.0	8.2	8.2	45.0	33.0
C1N1/2-PT3/8	1/2	R3/8	32.8	13.0	4.6	18	17.0	19.0	9.0	8.2	45.0	40.0
C1N1/2-PT1/2	1/2	R1/2	40.8	18.0	4.6	18	23.0	19.0	12.0	8.2	45.0	72.0
C1N5/8-PT3/8	5/8	R3/8	41.7	13.0	5.1	23	23.0	27.0	9.3	9.3	62.0	85.0
C1N5/8-PT1/2	5/8	R1/2	46.7	18.0	5.1	23	23.0	27.0	12.0	9.3	62.0	100.0

●Inch size type (Group 2)

Product number	Applicable tubing outer diameter (inch)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
C2N1/8-PT1/8	1/8	R1/8	28.0	11.0	4.6	21	10.0	8.0	5.0	3.0	1.0	11.0
C2N3/16-PT1/8	3/16	R1/8	28.1	11.0	4.6	15	10.0	10.0	5.0	1.4	1.5	12.0
C2N3/16-PT1/4	3/16	R1/4	30.1	12.0	4.6	15	14.0	10.0	7.0	1.4	1.5	20.0
C2N1/4-PT1/8	1/4	R1/8	28.0	11.0	4.6	15	10.0	12.0	5.0	2.2	3.5	14.5
C2N1/4-PT1/4	1/4	R1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	2.2	3.5	22.0
C2N5/16-PT1/8	5/16	R1/8	27.8	11.0	4.6	16	12.0	14.0	5.0	2.9	6.0	18.0
C2N5/16-PT1/4	5/16	R1/4	29.8	12.0	4.6	16	14.0	14.0	7.0	2.9	6.0	24.0
C2N3/8-PT1/8	3/8	R1/8	28.7	11.0	4.6	17	14.0	17.0	5.0	3.5	8.0	24.0
C2N3/8-PT1/4	3/8	R1/4	30.7	12.0	4.6	17	14.0	17.0	7.0	3.5	8.0	29.0
C2N3/8-PT3/8	3/8	R3/8	31.7	13.0	4.6	17	17.0	17.0	9.0	3.5	8.0	38.0
C2N1/2-PT1/4	1/2	R1/4	31.8	12.0	4.6	18	17.0	19.0	7.0	5.2	20.5	35.0
C2N1/2-PT3/8	1/2	R3/8	32.8	13.0	4.6	18	17.0	19.0	9.0	5.2	20.5	40.0
C2N1/2-PT1/2	1/2	R1/2	40.8	18.0	4.6	18	23.0	19.0	12.0	5.2	20.5	74.0

☆C2N1/8-PT1/8 is of insertless type.

90 degree elbow



●Millimeter size type (Group 4)

Product number	Applicable tubing outer diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
L4N4x2-PT1/8	4x2	R1/8	20.5	18.5	26.2	24.3	24.3	11.0	4.7	15	10.0	10.0	5.0	0.9	0.5	19.0
L4N4x2-PT1/4	4x2	R1/4	20.5	22.0	27.4	27.8	28.9	12.0	4.7	15	12.0	10.0	7.0	0.9	0.5	28.0
L4N4x2.5-PT1/8	4x2.5	R1/8	20.5	18.5	26.2	24.3	24.3	11.0	4.7	15	10.0	10.0	5.0	1.3	1.5	19.0
L4N4x3-PT1/8	4x3	R1/8	20.5	18.5	26.2	24.3	24.3	11.0	4.7	15	10.0	10.0	5.0	2.0	2.5	19.0
L4N6x4-PT1/8	6x4	R1/8	20.5	18.5	26.3	25.4	24.3	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	21.0
L4N6x4-PT1/4	6x4	R1/4	23.0	22.0	29.9	28.9	28.9	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	32.0
L4N6x4.5-PT1/8	6x4.5	R1/8	20.5	18.5	26.3	25.4	24.3	11.0	4.6	15	10.0	12.0	5.0	3.2	7.0	21.0
L4N6x4.5-PT1/4	6x4.5	R1/4	23.0	22.0	29.9	28.9	28.9	12.0	4.6	15	12.0	12.0	7.0	3.2	7.0	32.0
L4N8x5-PT1/8	8x5	R1/8	22.9	21.0	29.8	29.1	27.9	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	31.0
L4N8x5-PT1/4	8x5	R1/4	22.9	22.0	29.8	30.1	28.9	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	32.5
L4N8x6-PT1/8	8x6	R1/8	22.9	21.0	29.8	29.1	27.9	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	31.0
L4N8x6-PT1/4	8x6	R1/4	22.9	22.0	29.8	30.1	28.9	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	32.5
L4N8x6-PT3/8	8x6	R3/8	22.9	26.0	31.0	34.1	34.1	13.0	4.6	16	14.0	14.0	9.0	4.7	15.0	45.0
L4N10x6.5-PT1/4	10x6.5	R1/4	27.1	25.0	35.2	34.8	33.1	13.5	4.2	17	14.0	17.0	7.0	5.2	18.0	47.0
L4N10x6.5-PT3/8	10x6.5	R3/8	27.1	26.0	35.2	35.8	34.1	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	50.0
L4N10x7.5-PT1/4	10x7.5	R1/4	27.1	25.0	35.2	34.8	33.1	13.5	4.2	17	14.0	17.0	7.0	6.2	24.0	48.0
L4N10x7.5-PT3/8	10x7.5	R3/8	27.1	26.0	35.2	35.8	34.1	13.0	4.2	17	14.0	17.0	9.0	6.2	26.0	51.0
L4N10x7.5-PT1/2	10x7.5	R1/2	27.1	33.0	35.2	42.8	41.1	18.0	4.2	17	14.0	17.0	10.0	6.2	26.0	83.0
L4N10x8-PT1/4	10x8	R1/4	27.1	25.0	35.2	34.8	33.1	13.5	4.2	17	14.0	17.0	7.0	6.7	25.0	48.0
L4N10x8-PT3/8	10x8	R3/8	27.1	26.0	35.2	35.8	34.1	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	51.0
L4N10x8-PT1/2	10x8	R1/2	27.1	33.0	35.2	42.8	41.1	18.0	4.2	17	14.0	17.0	10.0	6.7	30.0	83.0
L4N12x8-PT3/8	12x8	R3/8	27.6	26.0	35.7	37.0	34.1	13.0	4.8	18	14.0	19.0	9.0	6.6	25.0	53.0
L4N12x8-PT1/2	12x8	R1/2	30.1	33.0	38.2	44.0	41.1	18.0	4.8	18	14.0	19.0	10.0	6.6	30.0	90.0
L4N12x9-PT1/4	12x9	R1/4	27.6	25.0	35.7	36.0	33.1	13.5	4.8	18	14.0	19.0	7.0	7.6	33.0	50.0
L4N12x9-PT3/8	12x9	R3/8	27.6	26.0	35.7	37.0	34.1	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	54.0
L4N12x9-PT1/2	12x9	R1/2	30.6	33.0	38.7	44.0	41.1	18.0	4.8	18	14.0	19.0	10.0	7.6	33.0	91.0
L4N16x13-PT1/2	16x13	R1/2	36.7	33.0	47.1	48.6	43.4	18.0	5.1	23	18.0	27.0	12.0	11.0	72.0	120.0

●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
L1N1/8-PT1/8	1/8	R1/8	20.5	18.5	26.3	23.1	24.3	11.0	4.6	15	10.0	8.0	5.0	1.4	1.5	15.0
L1N3/16-PT1/8	3/16	R1/8	20.6	18.5	26.3	24.3	24.3	11.0	4.6	15	10.0	10.0	5.0	2.4	4.0	18.0
L1N3/16-PT1/4	3/16	R1/4	23.1	22.0	30.0	27.8	28.9	12.0	4.6	15	12.0	10.0	7.0	2.4	4.0	28.0
L1N1/4-PT1/8	1/4	R1/8	20.5	18.5	26.3	25.4	24.3	11.0	4.6	15	10.0	12.0	5.0	3.4	8.0	20.0
L1N1/4-PT1/4	1/4	R1/4	23.0	22.0	29.8	28.9	27.8	12.0	4.6	15	10.0	12.0	7.0	3.4	8.0	26.0
L1N1/4-PT3/8	1/4	R3/8	26.0	26.0	34.6	32.9	34.1	13.0	4.6	15	14.0	12.0	9.0	3.4	8.0	44.0
L1N5/16-PT1/8	5/16	R1/8	22.8	21.0	29.8	29.1	27.9	11.0	4.6	16	12.0	14.0	5.0	4.7	15.0	30.0
L1N5/16-PT1/4	5/16	R1/4	22.8	22.0	29.8	30.1	28.9	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	32.0
L1N5/16-PT3/8	5/16	R3/8	25.8	26.0	34.4	34.1	34.1	13.0	4.6	16	14.0	14.0	9.0	4.7	15.0	48.0
L1N3/8-PT1/8	3/8	R1/8	23.7	21.0	30.6	30.8	27.9	11.0	4.6	17	12.0	17.0	5.0	5.7	15.0	35.0
L1N3/8-PT1/4	3/8	R1/4	23.7	22.0	30.6	31.8	28.9	12.0	4.6	17	12.0	17.0	7.0	5.7	19.0	50.0
L1N3/8-PT3/8	3/8	R3/8	26.7	26.0	35.2	35.8	32.9	13.0	4.6	17	12.0	17.0	7.0	5.7	19.0	50.0
L1N3/8-PT1/2	3/8	R1/2	26.7	33.0	37.5	42.8	41.1	18.0	4.6	17	14.0	17.0	10.0	5.7	22.5	84.0
L1N1/2-PT1/4	1/2	R1/4	27.8	25.0	35.9	36.0	33.1	13.5	4.6	18	14.0	19.0	7.0	8.2	32.0	50.0
L1N1/2-PT3/8	1/2	R3/8	27.8	26.0	36.3	37.0	34.1	13.0	4.6	18	14.0	19.0	9.0	8.2	32.0	53.0
L1N1/2-PT1/2	1/2	R1/2	30.8	33.0	41.6	44.0	41.1	18.0	4.6	18	14.0	19.0	10.0	8.2	32.0	76.0
L1N5/8-PT3/8	5/8	R3/8	36.7	28.0	47.1	43.6	38.4	15.0	5.1	23	18.0	27.0	9.0	9.3	48.0	107.0
L1N5/8-PT1/2	5/8	R1/2	36.7	33.0	47.5	48.6	43.4	18.0	5.1	23	18.0	27.0	12.0	9.3	53.0	117.0

●Inch size type (Group 2)

Product number	Applicable tubing outer diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
L2N1/8-PT1/8	1/8	R1/8	20.5	18.5	26.3	23.1	24.3	11.0	4.6	21	10.0	8.0	5.0	3.0	1.5	16.0
L2N3/16-PT1/8	3/16	R1/8	20.6	18.5	26.3	24.3	24.3	11.0	4.6	15	10.0	10.0	5.0	1.4	1.5	19.0
L2N1/4-PT1/8	1/4	R1/8	20.5	18.5	26.3	25.4	24.3	11.0	4.6	15	10.0	12.0	5.0	2.2	3.5	21.0
L2N1/4-PT1/4	1/4	R1/4	23.0	22.0	28.8	28.9	27.8	12.0	4.6	15	10.0	12.0	7.0	2.2	3.5	31.0
L2N5/16-PT1/8	5/16	R1/8	22.8	21.0	29.8	29.1	27.9	11.0	4.6	16	12.0	14.0	5.0	2.9	5.0	31.0
L2N5/16-PT1/4	5/16	R1/4	22.8	22.0	29.8	30.1	28.9	12.0	4.6	16	12.0	14.0	7.0	2.9	5.0	33.0
L2N3/8-PT1/4	3/8	R1/4	23.7	22.0	30.6	31.8	28.9	12.0	4.6	17	12.0	17.0	7.0	3.5	7.5	37.0
L2N3/8-PT3/8	3/8	R3/8	26.7	26.0	35.2	35.8	32.9	13.0	4.6	17	12.0	17.0	7.0	3.5	7.5	55.0
L2N1/2-PT1/4	1/2	R1/4	27.8	25.0	35.9	36.0	33.1	13.5	4.6	18	14.0	19.0	7.0	5.2	18.0	54.0
L2N1/2-PT3/8	1/2	R3/8	27.8	26.0	36.3	37.0	34.1	13.0	4.6	18	14.0	19.0	9.0	5.2	18.0	57.0
L2N1/2-PT1/2	1/2	R1/2	30.3	33.0	41.1	44.0	43.4	18.0	4.6	18	18.0	19.0	12.0	5.2	18.0	89.0

☆L2N1/8-PT1/8 is of insertless type.

Tubing

Clean tubing

Processed tubing

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemfit

Bamboo-shoot fitting

Control switch/ Detachable series

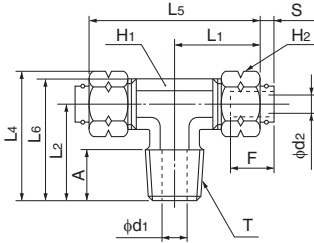
Jig/Tool/ Accessory

Technical information

Reference

QuickSeal Series Insertion Type (brass)

Tee



●Millimeter size type (Group 4)

Product number	Applicable tubing outer diameter/inner diameter (mm)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₄ (mm)	L ₅ (mm)	L ₆ (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	d ₂ Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
T4N4x2-PT1/8	4x2	R1/8	20.5	18.5	24.3	40.9	24.3	11.0	4.7	15	10.0	10.0	5.0	0.9	0.5	25.0
T4N4x2.5-PT1/8	4x2.5	R1/8	20.5	18.5	24.3	40.9	24.3	11.0	4.7	15	10.0	10.0	5.0	1.3	1.5	25.0
T4N4x3-PT1/8	4x3	R1/8	20.5	18.5	24.3	40.9	24.3	11.0	4.7	15	10.0	10.0	5.0	2.0	2.5	25.0
T4N6x4-PT1/8	6x4	R1/8	20.5	18.5	25.4	41.0	24.3	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	30.0
T4N6x4-PT1/4	6x4	R1/4	23.0	22.0	28.9	46.0	28.9	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	43.0
T4N6x4.5-PT1/8	6x4.5	R1/8	20.5	18.5	25.4	41.0	24.3	11.0	4.6	15	10.0	12.0	5.0	3.2	7.0	31.0
T4N6x4.5-PT1/4	6x4.5	R1/4	23.0	22.0	28.9	46.0	28.9	12.0	4.6	15	12.0	12.0	7.0	3.2	7.0	43.0
T4N8x5-PT1/8	8x5	R1/8	22.9	21.0	29.1	45.8	27.9	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	43.0
T4N8x5-PT1/4	8x5	R1/4	22.9	22.0	30.1	45.8	28.9	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	45.0
T4N8x6-PT1/8	8x6	R1/8	22.9	21.0	29.1	45.8	27.9	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	42.0
T4N8x6-PT1/4	8x6	R1/4	22.9	22.0	30.1	45.8	28.9	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	44.0
T4N8x6-PT3/8	8x6	R3/8	22.9	26.0	34.1	45.8	34.1	13.0	4.6	16	14.0	14.0	9.0	4.7	15.0	58.0
T4N10x6.5-PT1/4	10x6.5	R1/4	27.1	25.0	34.8	54.2	33.1	12.0	4.2	17	14.0	17.0	7.0	5.2	18.0	73.0
T4N10x6.5-PT3/8	10x6.5	R3/8	28.1	26.0	35.8	56.2	34.1	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	78.0
T4N10x7.5-PT1/4	10x7.5	R1/4	27.1	25.0	34.8	54.2	33.1	12.0	4.2	17	14.0	17.0	7.0	6.2	24.0	70.0
T4N10x7.5-PT3/8	10x7.5	R3/8	27.1	26.0	35.8	54.2	34.1	13.0	4.2	17	14.0	17.0	9.0	6.2	26.0	76.0
T4N10x7.5-PT1/2	10x7.5	R1/2	27.1	33.0	42.8	54.2	43.4	18.0	4.2	17	18.0	17.0	12.0	6.2	26.0	110.0
T4N10x8-PT1/4	10x8	R1/4	27.1	25.0	34.8	54.2	33.1	12.0	4.2	17	14.0	17.0	7.0	6.7	25.0	69.0
T4N10x8-PT3/8	10x8	R3/8	27.1	26.0	35.8	54.2	34.1	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	75.0
T4N10x8-PT1/2	10x8	R1/2	27.1	33.0	42.8	54.2	43.4	18.0	4.2	17	18.0	17.0	12.0	6.7	30.0	109.0
T4N12x8-PT3/8	12x8	R3/8	27.6	25.0	36.0	55.3	33.1	13.0	4.8	18	14.0	19.0	9.0	6.6	25.0	82.0
T4N12x8-PT1/2	12x8	R1/2	30.6	33.0	44.0	61.3	43.4	18.0	4.8	18	18.0	19.0	12.0	6.6	30.0	128.0
T4N12x9-PT1/4	12x9	R1/4	27.6	25.0	36.0	55.3	33.1	12.0	4.8	18	14.0	19.0	7.0	7.6	33.0	75.0
T4N12x9-PT3/8	12x9	R3/8	27.6	26.0	37.0	55.3	34.1	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	82.0
T4N12x9-PT1/2	12x9	R1/2	30.6	33.0	44.0	61.3	43.4	18.0	4.8	18	18.0	19.0	12.0	7.6	33.0	128.0
T4N16x13-PT1/2	16x13	R1/2	36.7	33.0	48.6	73.4	43.4	18.0	5.1	23	18.0	27.0	12.0	11.0	72.0	165.0

*Made to order

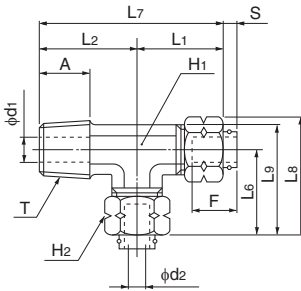
●Inch size type (Group 1)

Product number	Applicable tubing outer diameter/inner diameter (mm)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₄ (mm)	L ₅ (mm)	L ₆ (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	d ₂ Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
T1N1/8-PT1/8	1/8	R1/8	20.5	18.5	23.1	41.1	24.3	11.0	4.6	15	10.0	8.0	5.0	1.4	1.5	21.0
T1N3/16-PT1/8	3/16	R1/8	20.6	18.5	24.3	41.1	24.3	11.0	4.6	15	10.0	10.0	5.0	2.4	4.0	26.0
T1N1/4-PT1/8	1/4	R1/8	20.5	18.5	25.4	41.1	24.3	11.0	4.6	15	10.0	12.0	5.0	3.4	8.0	29.0
T1N1/4-PT1/4	1/4	R1/4	23.0	22.0	28.9	46.1	28.9	12.0	4.6	15	12.0	12.0	7.0	3.4	8.0	42.0
T1N5/16-PT1/8	5/16	R1/8	22.8	21.0	29.1	45.7	27.9	11.0	4.6	16	12.0	14.0	5.0	4.7	15.0	42.0
T1N5/16-PT1/4	5/16	R1/4	22.8	22.0	30.1	45.7	28.9	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	45.0
T1N5/16-PT3/8	5/16	R3/8	25.8	26.0	34.1	51.7	34.1	13.0	4.6	16	14.0	14.0	9.0	4.7	15.0	66.0
T1N3/8-PT1/4	3/8	R1/4	23.7	22.0	31.8	47.4	28.9	12.0	4.6	17	12.0	17.0	7.0	5.7	19.0	55.0
T1N3/8-PT3/8	3/8	R3/8	26.7	26.0	35.8	53.4	34.1	13.0	4.6	17	14.0	17.0	9.0	5.7	19.0	77.0
T1N3/8-PT1/2	3/8	R1/2	29.7	33.0	42.8	59.4	43.4	18.0	4.6	17	18.0	17.0	12.0	5.7	22.5	122.0
T1N1/2-PT3/8	1/2	R3/8	27.8	26.0	37.0	55.6	34.1	13.0	4.6	18	14.0	19.0	9.0	8.2	32.0	79.0
T1N1/2-PT1/2	1/2	R1/2	30.8	33.0	44.0	61.6	43.4	18.0	4.6	18	18.0	19.0	12.0	8.2	32.0	119.0
T1N5/8-PT3/8	5/8	R3/8	36.7	28.0	43.6	73.3	38.4	13.0	5.1	23	18.0	27.0	9.0	9.3	48.0	130.0
T1N5/8-PT1/2	5/8	R1/2	36.7	33.0	48.6	73.3	43.4	18.0	5.1	23	18.0	27.0	12.0	9.3	53.0	172.0

●Inch size type (Group 2)

Product number	Applicable tubing outer diameter/inner diameter (mm)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₄ (mm)	L ₅ (mm)	L ₆ (mm)	A (mm)
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Service tee



●Millimeter size type (Group 4)

Product number	Applicable tubing outer diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
ST4N4x2-PT1/8	4x2	R1/8	20.5	18.5	20.5	39.0	26.2	26.2	11.0	4.7	15	10.0	10.0	5.0	0.9	0.5	26.0
ST4N4x2.5-PT1/8	4x2.5	R1/8	20.5	18.5	20.5	39.0	26.2	26.2	11.0	4.7	15	10.0	10.0	5.0	1.3	1.5	26.0
ST4N4x3-PT1/8	4x3	R1/8	20.5	18.5	20.5	39.0	26.2	26.2	11.0	4.7	15	10.0	10.0	5.0	2.0	2.5	26.0
ST4N6x4-PT1/8	6x4	R1/8	20.5	18.5	20.5	39.0	27.4	26.3	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	41.0
ST4N6x4-PT1/4	6x4	R1/4	23.0	22.0	23.0	45.0	29.9	29.9	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	30.0
ST4N6x4.5-PT1/8	6x4.5	R1/8	20.5	18.5	20.5	39.0	27.4	26.3	11.0	4.6	15	10.0	12.0	5.0	3.2	7.0	41.0
ST4N6x4.5-PT1/4	6x4.5	R1/4	23.0	22.0	23.0	45.0	29.9	29.9	12.0	4.6	15	12.0	12.0	7.0	3.2	7.0	43.0
ST4N8x5-PT1/8	8x5	R1/8	22.9	21.0	22.9	43.9	31.0	29.8	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	43.0
ST4N8x5-PT1/4	8x5	R1/4	22.9	22.0	22.9	44.9	31.0	29.8	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	43.0
ST4N8x6-PT1/8	8x6	R1/8	22.9	21.0	22.9	43.9	31.0	29.8	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	45.0
ST4N8x6-PT1/4	8x6	R1/4	22.9	22.0	22.9	44.9	31.0	29.8	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	46.0
ST4N8x6-PT3/8	8x6	R3/8	22.9	26.0	22.9	48.9	31.0	31.0	13.0	4.6	16	14.0	14.0	9.0	4.7	15.0	60.0
ST4N10x6.5-PT1/4	10x6.5	R1/4	27.1	25.0	27.1	52.1	36.9	35.2	12.0	4.2	17	14.0	17.0	7.0	5.2	18.0	72.0
ST4N10x6.5-PT3/8	10x6.5	R3/8	27.1	26.0	27.1	53.1	36.9	35.2	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	70.0
ST4N10x7.5-PT1/4	10x7.5	R1/4	27.1	25.0	27.1	52.1	36.9	35.2	12.0	4.2	17	14.0	17.0	7.0	6.2	24.0	70.0
ST4N10x7.5-PT3/8	10x7.5	R3/8	27.1	26.0	27.1	53.1	36.9	35.2	13.0	4.2	17	14.0	17.0	9.0	6.2	26.0	76.0
ST4N10x7.5-PT1/2	10x7.5	R1/2	27.1	35.5	27.1	62.6	36.9	37.5	18.0	4.2	17	18.0	17.0	12.0	6.2	26.0	74.0
ST4N10x8-PT1/4	10x8	R1/4	27.1	25.0	27.1	52.1	36.9	35.2	12.0	4.2	17	14.0	17.0	7.0	6.7	25.0	76.0
ST4N10x8-PT3/8	10x8	R3/8	27.1	26.0	27.1	53.1	36.9	35.2	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	113.0
ST4N10x8-PT1/2	10x8	R1/2	27.1	35.5	27.1	62.6	36.9	37.5	18.0	4.2	17	18.0	17.0	12.0	6.7	30.0	125.0
ST4N12x8-PT3/8	12x8	R3/8	27.6	26.0	27.6	53.6	38.6	35.7	13.0	4.8	18	14.0	19.0	9.0	6.6	25.0	81.0
ST4N12x8-PT1/2	12x8	R1/2	30.1	35.5	30.1	65.6	41.1	40.5	18.0	4.8	18	18.0	19.0	12.0	6.6	30.0	82.0
ST4N12x9-PT3/8	12x9	R3/8	27.6	26.0	27.6	53.6	38.6	35.7	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	130.0
ST4N12x9-PT1/2	12x9	R1/2	30.1	35.5	30.1	65.6	41.1	40.5	18.0	4.8	18	18.0	19.0	12.0	7.6	33.0	128.0

*Made to order

●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
ST1N1/8-PT1/8	1/8	R1/8	20.5	18.5	20.5	39.0	25.2	26.3	11.0	4.6	15	10.0	8.0	5.0	1.4	1.5	22.0
ST1N3/16-PT1/8	3/16	R1/8	20.6	18.5	20.6	39.1	26.3	26.3	11.0	4.6	15	10.0	10.0	5.0	2.4	4.0	25.0
ST1N3/16-PT1/4	3/16	R1/4	23.1	22.0	23.1	45.1	28.8	30.0	12.0	4.6	15	12.0	10.0	7.0	2.4	4.0	37.0
ST1N1/4-PT1/8	1/4	R1/8	20.5	18.5	20.5	39.0	27.5	26.3	11.0	4.6	15	10.0	12.0	5.0	3.4	8.0	29.0
ST1N1/4-PT1/4	1/4	R1/4	23.0	22.0	23.0	45.0	30.0	30.0	12.0	4.6	15	12.0	12.0	7.0	3.4	8.0	41.0
ST1N5/16-PT1/8	5/16	R1/8	22.8	21.0	22.8	43.8	30.9	29.8	11.0	4.6	16	12.0	14.0	5.0	4.7	15.0	44.0
ST1N5/16-PT1/4	5/16	R1/4	22.8	22.0	22.8	44.8	30.9	29.8	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	45.0
ST1N3/8-PT1/4	3/8	R1/4	23.7	22.0	23.7	45.7	33.5	30.6	12.0	4.6	17	12.0	17.0	7.0	5.7	19.0	56.0
ST1N3/8-PT3/8	3/8	R3/8	26.7	26.0	26.7	52.7	36.5	34.8	13.0	4.6	17	14.0	17.0	9.0	5.7	19.0	77.0
ST1N3/8-PT1/2	3/8	R1/2	29.2	35.5	29.2	64.7	39.0	39.6	18.0	4.6	17	18.0	17.0	12.0	5.7	22.5	124.0
ST1N1/2-PT3/8	1/2	R3/8	27.8	26.0	27.8	53.8	38.8	35.9	13.0	4.6	18	14.0	19.0	9.0	8.2	32.0	81.0
ST1N1/2-PT1/2	1/2	R1/2	30.3	35.5	30.3	65.8	41.3	40.7	18.0	4.6	18	18.0	19.0	12.0	8.2	32.0	122.0
ST1N5/8-PT1/2	5/8	R1/2	36.7	35.5	34.2	72.2	49.8	44.6	18.0	5.1	23	18.0	27.0	12.0	9.3	53.0	179.0

*Made to order

●Inch size type (Group 2)

Product number	Applicable tubing outer diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
ST2N1/8-PT1/8	1/8	R1/8	20.5	18.5	20.5	39.0	25.2	26.3	11.0	4.6	21	10.0	8.0	5.0	3.0	1.5	21.0
ST2N3/16-PT1/8	3/16	R1/8	20.6	18.5	20.6	39.1	26.3	26.3	11.0	4.6	15	10.0	10.0	5.0	1.4	1.5	25.0
ST2N1/4-PT1/8	1/4	R1/8	20.5	18.5	20.5	39.0	27.5	26.3	11.0	4.6	15	10.0	12.0	5.0	2.2	3.5	30.0
ST2N1/4-PT1/4	1/4	R1/4	23.0	22.0	23.0	45.0	30.0	30.0	12.0	4.6	15	12.0	12.0	7.0	2.2	3.5	43.0
ST2N5/16-PT1/8	5/16	R1/8	22.8	21.0	22.8	43.8	30.9	29.8	11.0	4.6	16	12.0	14.0	5.0	2.9	5.0	45.0
ST2N5/16-PT1/4	5/16	R1/4	22.8	22.0	22.8	44.8	30.9	29.8	12.0	4.6	16	12.0	14.0	7.0	2.9	5.0	47.0
ST2N3/8-PT1/4	3/8	R1/4	23.7	22.0	23.7	45.7	33.5	30.6	12.0	4.6	17	12.0	17.0	7.0	3.5	7.5	58.0
ST2N3/8-PT3/8	3/8	R3/8	26.7	26.0	26.7	52.7	36.5	34.8	13.0	4.6	17	14.0	17.0	9.0	3.5	7.5	77.0
ST2N1/2-PT3/8	1/2	R3/8	27.8	26.0	27.8	53.8	38.8	35.9	13.0	4.6	18	14.0	19.0	9.0	5.2	18.0	78.0

☆C2N1/8-PT1/8 is of insertless type.

*Made to order

Tubing

Clean tubing

Processed tubing

PushOne fitting

QuickSeal fitting

Clean fitting/Chemifit

Bamboo-shoot fitting

Control switch/Detachable series

Jig/Tool/Accessory

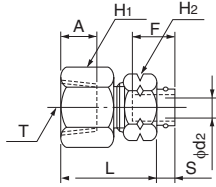
Technical information

Reference

QuickSeal Series Insertion Type (brass)

Internal connector

●Millimeter size type (Group 4)



Product number	Applicable tubing outer diameter x inner diameter (mm)	T Thread size (RC)	L (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
FC4N4x2-PT1/8	4x2	RC1/8	25.0	8.7	4.7	15	14.0	10.0	0.9	0.5	18.0
FC4N4x3-PT1/8	4x3	RC1/8	25.0	8.7	4.7	15	14.0	10.0	2.0	3.0	18.0
FC4N6x4-PT1/8	6x4	RC1/8	25.0	8.7	4.6	15	14.0	12.0	2.7	5.0	20.0
FC4N6x4-PT1/4	6x4	RC1/4	29.0	13.0	4.6	15	17.0	12.0	2.7	5.0	29.0
FC4N6x4-PT3/8	6x4	RC3/8	30.0	13.5	4.6	15	22.0	12.0	2.7	5.0	43.0
FC4N6x4.5-PT1/8	6x4.5	RC1/8	25.0	8.7	4.6	15	14.0	12.0	3.2	7.5	20.0
FC4N6x4.5-PT1/4	6x4.5	RC1/4	29.0	13.0	4.6	15	17.0	12.0	3.2	7.5	29.0
FC4N8x6-PT1/8	8x6	RC1/8	24.9	8.7	4.6	16	14.0	14.0	4.7	16.0	22.0
FC4N8x6-PT1/4	8x6	RC1/4	28.9	13.0	4.6	16	17.0	14.0	4.7	16.0	31.0
FC4N8x6-PT3/8	8x6	RC3/8	29.9	13.5	4.6	16	22.0	14.0	4.7	16.0	48.0
FC4N10x7.5-PT1/4	10x7.5	RC1/4	30.1	13.0	4.2	17	17.0	17.0	6.2	30.0	35.0
FC4N10x7.5-PT3/8	10x7.5	RC3/8	31.1	13.5	4.2	17	22.0	17.0	6.2	30.0	51.0
FC4N10x7.5-PT1/2	10x7.5	RC1/2	35.1	17.5	4.2	17	24.0	17.0	6.2	30.0	59.0
FC4N10x8-PT1/4	10x8	RC1/4	30.1	13.0	4.2	17	17.0	17.0	6.7	32.0	35.0
FC4N10x8-PT3/8	10x8	RC3/8	31.1	13.5	4.2	17	22.0	17.0	6.7	32.0	51.0
FC4N10x8-PT1/2	10x8	RC1/2	35.1	17.5	4.2	17	24.0	17.0	6.7	32.0	58.0
FC4N12x9-PT3/8	12x9	RC3/8	31.6	13.5	4.8	18	22.0	19.0	7.6	40.0	55.0
FC4N12x9-PT1/2	12x9	RC1/2	35.6	17.5	4.8	18	24.0	19.0	7.6	40.0	62.0

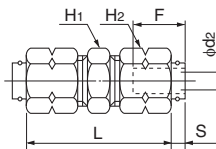
*Made to order

●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (inch)	T Thread size (RC)	L (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
FC1N3/16-PT1/8	3/16	RC1/8	25.1	8.7	4.6	15	14.0	10.0	2.4	4.0	17.0
FC1N1/4-PT1/8	1/4	RC1/8	25.0	8.7	4.6	15	14.0	12.0	3.4	8.5	19.0
FC1N1/4-PT1/4	1/4	RC1/4	29.0	13.0	4.6	15	17.0	12.0	3.4	8.5	29.0
FC1N5/16-PT1/8	5/16	RC1/8	24.8	8.7	4.6	16	14.0	14.0	4.7	16.0	22.0
FC1N5/16-PT1/4	5/16	RC1/4	28.8	13.0	4.6	16	17.0	14.0	4.7	16.0	30.0
FC1N5/16-PT3/8	5/16	RC3/8	29.8	13.5	4.6	16	22.0	14.0	4.7	16.0	45.0
FC1N3/8-PT1/4	3/8	RC1/4	29.7	13.0	4.6	17	17.0	17.0	5.7	22.5	35.0
FC1N3/8-PT3/8	3/8	RC3/8	30.7	13.5	4.6	17	22.0	17.0	5.7	22.5	52.0
FC1N3/8-PT1/2	3/8	RC1/2	34.7	17.5	4.6	17	24.0	17.0	5.7	22.5	60.0
FC1N1/2-PT3/8	1/2	RC3/8	31.8	13.5	4.6	18	22.0	19.0	8.2	45.0	54.0
FC1N1/2-PT1/2	1/2	RC1/2	35.8	17.5	4.6	18	24.0	19.0	8.2	45.0	61.0

Union connector

●Millimeter size type (Group 4)



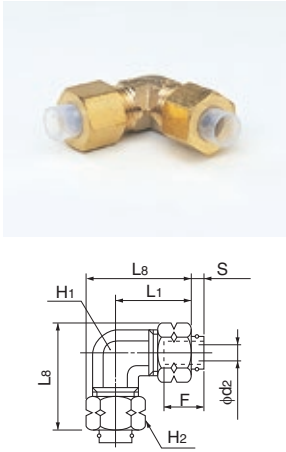
Product number	Applicable tubing outer diameter (mm)	L (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
UC4N4x2	4x2	32.9	4.7	15	10.0	10.0	0.9	0.5	16.0
UC4N4x2.5	4x2.5	32.9	4.7	15	10.0	10.0	1.3	1.5	16.0
UC4N4x3	4x3	32.9	4.7	15	10.0	10.0	2.0	3.0	16.0
UC4N6x4	6x4	33.0	4.6	15	10.0	12.0	2.7	5.0	20.0
UC4N6x4.5	6x4.5	33.0	4.6	15	10.0	12.0	3.2	7.5	20.0
UC4N8x5	8x5	32.8	4.6	16	12.0	14.0	3.7	10.0	28.0
UC4N8x6	8x6	32.8	4.6	16	12.0	14.0	4.7	16.0	25.0
UC4N10x6.5	10x6.5	36.2	4.2	17	17.0	17.0	5.2	20.5	44.0
UC4N10x7.5	10x7.5	36.2	4.2	17	17.0	17.0	6.2	30.0	45.0
UC4N10x8	10x8	36.2	4.2	17	17.0	17.0	6.7	32.0	44.0
UC4N12x8	12x8	37.3	4.8	18	17.0	19.0	6.6	32.0	49.0
UC4N12x9	12x9	37.3	4.8	18	17.0	19.0	7.6	40.0	51.0

●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (inch)	L (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
UC1N1/8	1/8	33.1	4.6	15	10.0	8.0	1.4	1.5	13.0
UC1N3/16	3/16	33.1	4.6	15	10.0	10.0	2.4	4.0	16.0
UC1N1/4	1/4	33.1	4.6	15	10.0	12.0	3.4	8.5	20.0
UC1N5/16	5/16	32.7	4.6	16	12.0	14.0	4.7	16.0	25.0
UC1N3/8	3/8	35.4	4.6	17	14.0	17.0	5.7	22.5	40.0
UC1N1/2	1/2	37.6	4.6	18	17.0	19.0	8.2	45.0	47.0

Tubing
Clean tubing
Processed tubing
PushOne fitting
QuickSeal fitting
Clean fitting/Chemifit
Bamboo-shoot fitting
Control switch/Detachable series
Jig/Tool/Accessory
Technical information
Reference

90 degree union elbow



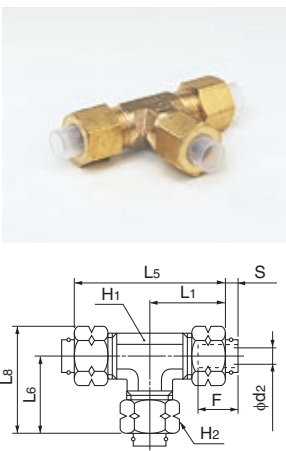
●Millimeter size type (Group 4)

Product number	Applicable tubing outer diameter x inner diameter (mm)	L1 (mm)	L8 (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
UL4N4x2	4x2	20.5	26.2	4.7	15	10.0	10.0	0.9	0.6	20.0
UL4N4x2.5	4x2.5	20.5	26.2	4.7	15	10.0	10.0	1.3	1.0	20.0
UL4N4x3	4x3	20.5	26.2	4.7	15	10.0	10.0	2.0	2.0	20.0
UL4N6x4	6x4	20.5	27.4	4.6	15	10.0	12.0	2.7	4.0	25.0
UL4N6x4.5	6x4.5	20.5	27.4	4.6	15	10.0	12.0	3.2	5.5	25.0
UL4N8x5	8x5	22.9	31.0	4.6	16	12.0	14.0	3.7	7.5	37.0
UL4N8x6	8x6	22.9	31.0	4.6	16	12.0	14.0	4.7	12.5	36.0
UL4N10x6.5	10x6.5	27.1	36.9	4.2	17	14.0	17.0	5.2	15.5	59.0
UL4N10x7.5	10x7.5	27.1	36.9	4.2	17	14.0	17.0	6.2	22.0	56.0
UL4N10x8	10x8	27.1	36.9	4.2	17	14.0	17.0	6.7	25.0	57.0
UL4N12x8	12x8	27.6	38.6	4.8	18	14.0	19.0	6.6	25.0	63.0
UL4N12x9	12x9	27.6	38.6	4.8	18	14.0	19.0	7.6	25.0	60.0

●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (inch)	L1 (mm)	L8 (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
UL1N1/8	1/8	20.5	26.3	4.6	15	10.0	8.0	1.4	1.0	17.0
UL1N3/16	3/16	20.6	26.3	4.6	15	10.0	10.0	2.4	3.0	20.0
UL1N1/4	1/4	20.5	27.5	4.6	15	10.0	12.0	3.4	6.5	25.0
UL1N5/16	5/16	22.8	30.9	4.6	16	12.0	14.0	4.7	12.5	37.0
UL1N3/8	3/8	23.7	33.5	4.6	17	12.0	17.0	5.7	18.5	47.0
UL1N1/2	1/2	27.8	38.8	4.6	18	14.0	19.0	8.2	30.0	58.0

Union tee



●Millimeter size type (Group 4)

Product number	Applicable tubing outer diameter x inner diameter (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
UT4N4x2	4x2	20.5	40.9	20.5	26.2	4.7	15	10.0	10.0	0.9	0.6	27.0
UT4N4x2.5	4x2.5	20.5	40.9	20.5	26.2	4.7	15	10.0	10.0	1.3	1.0	28.0
UT4N4x3	4x3	20.5	40.9	20.5	26.2	4.7	15	10.0	10.0	2.0	2.0	26.0
UT4N6x4	6x4	20.5	41.0	20.5	27.4	4.6	15	10.0	12.0	2.7	4.0	35.0
UT4N6x4.5	6x4.5	20.5	41.0	20.5	27.4	4.6	15	10.0	12.0	3.2	5.5	35.0
UT4N8x5	8x5	22.9	45.8	22.9	31.0	4.6	16	12.0	14.0	3.7	7.5	49.0
UT4N8x6	8x6	22.9	45.8	22.9	31.0	4.6	16	12.0	14.0	4.7	12.5	48.0
UT4N10x6.5	10x6.5	27.1	54.2	27.1	36.9	4.2	17	14.0	17.0	5.2	15.5	82.0
UT4N10x7.5	10x7.5	27.1	54.2	27.1	36.9	4.2	17	14.0	17.0	6.2	22.0	80.0
UT4N10x8	10x8	27.1	54.2	27.1	36.9	4.2	17	14.0	17.0	6.7	25.0	77.0
UT4N12x8	12x8	27.6	55.3	28.6	39.6	4.8	18	14.0	19.0	6.6	25.0	90.0
UT4N12x9	12x9	27.6	55.3	28.6	39.6	4.8	18	14.0	19.0	7.6	25.0	85.0

●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (inch)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
UT1N1/8	1/8	20.5	41.1	20.5	26.3	4.6	15	10.0	8.0	1.4	1.0	22.0
UT1N3/16	3/16	20.6	41.1	20.6	26.3	4.6	15	10.0	10.0	2.4	3.0	28.0
UT1N1/4	1/4	20.5	41.1	20.5	27.5	4.6	15	10.0	12.0	3.4	6.5	34.0
UT1N5/16	5/16	22.8	45.7	22.8	30.9	4.6	16	12.0	14.0	4.7	12.5	49.0
UT1N3/8	3/8	23.7	47.4	23.7	33.5	4.6	17	12.0	17.0	5.7	18.5	64.0
UT1N1/2	1/2	27.8	55.6	27.8	38.8	4.6	18	14.0	19.0	8.2	30.0	84.0
UT1N5/8	5/8	36.7	73.3	35.5	51.1	5.1	23	18.0	27.0	9.3	45.0	189.0

●Inch size type (Group 2)

Product number	Applicable tubing outer diameter (inch)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	S (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
☆ UT2N1/8	1/8	20.5	41.1	20.5	26.3	4.6	21	10.0	8.0	3.0	1.0	21.0
UT2N3/16	3/16	20.6	41.1	20.6	26.3	4.6	15	10.0	10.0	1.4	1.0	27.0
UT2N1/4	1/4	20.5	41.1	20.5	27.5	4.6	15	10.0	12.0	2.2	2.5	34.0
UT2N5/16	5/16	22.8	45.7	22.8	30.9	4.6	16	12.0	14.0	2.9	4.5	52.0
UT2N3/8	3/8	23.7	47.4	23.7	33.5	4.6	17	12.0	17.0	3.5	7.0	67.0
UT2N1/2	1/2	27.8	55.6	27.8	38.8	4.6	18	14.0	19.0	5.2	16.0	92.0

☆UT2N1/8 is of insertless type.

Tubing

Clean tubing

Processed tubing

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

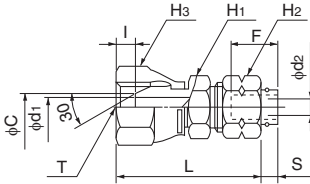
Jig/Tool/ Accessory

Technical information

Reference

Swivel nut internal connector

●Millimeter size type (Group 4)



Product number	Applicable tubing outer diameter/inner diameter (mm)	T Thread size (G)	L (mm)	S (mm)	I (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	H3 Width across flat (mm)	C (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
SC4N4x2-PF1/8	4x2	G1/8	33.0	4.7	4.0	15	12.0	10.0	14.0	5.0	2.8	0.9	1.0	24.0
SC4N6x4-PF1/8	6x4	G1/8	33.0	4.6	4.0	15	12.0	12.0	14.0	5.0	2.7	2.7	5.0	26.0
SC4N6x4-PF1/4	6x4	G1/4	34.7	4.6	5.7	15	17.0	12.0	19.0	7.0	5.0	2.7	5.5	44.0
SC4N6x4.5-PF1/8	6x4.5	G1/8	33.0	4.6	4.0	15	12.0	12.0	14.0	5.0	3.2	3.2	6.5	26.0
SC4N6x4.5-PF1/4	6x4.5	G1/4	34.7	4.6	5.7	15	17.0	12.0	19.0	7.0	5.0	3.2	7.5	44.0
SC4N8x6-PF1/4	8x6	G1/4	34.6	4.6	5.7	16	17.0	14.0	19.0	7.0	5.0	4.7	17.0	46.0
SC4N10x7.5-PF1/4	10x7.5	G1/4	38.8	4.2	5.7	17	17.0	17.0	19.0	7.0	5.0	6.2	19.0	56.0
SC4N10x7.5-PF3/8	10x7.5	G3/8	40.9	4.2	6.8	17	19.0	17.0	22.0	10.0	6.2	6.2	19.0	71.0
SC4N10x8-PF1/4	10x8	G1/4	38.8	4.2	5.7	17	17.0	17.0	19.0	7.0	5.0	6.7	19.0	56.0
SC4N10x8-PF3/8	10x8	G3/8	40.9	4.2	6.8	17	19.0	17.0	22.0	10.0	6.7	6.7	34.0	71.0
SC4N12x9-PF3/8	12x9	G3/8	41.4	4.8	6.8	18	19.0	19.0	22.0	10.0	7.6	7.6	44.5	54.0
SC4N12x9-PF1/2	12x9	G1/2	46.1	4.8	9.5	18	22.0	19.0	27.0	14.0	10.0	7.6	44.5	116.0

*Made to order

●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (inch)	T Thread size (G)	L (mm)	S (mm)	I (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	H3 Width across flat (mm)	C (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
SC1N1/8-PF1/8	1/8	G1/8	33.0	4.6	4.0	15	12.0	8.0	14.0	5.0	1.4	1.4	1.5	22.0
SC1N3/16-PF1/8	3/16	G1/8	33.1	4.6	4.0	15	12.0	10.0	14.0	5.0	2.4	2.4	4.0	24.0
SC1N1/4-PF1/8	1/4	G1/8	33.0	4.6	4.0	15	12.0	12.0	14.0	5.0	3.4	3.4	6.5	25.0
SC1N1/4-PF1/4	1/4	G1/4	34.7	4.6	5.7	15	17.0	12.0	19.0	7.0	5.0	3.4	8.5	44.0
SC1N5/16-PF1/4	5/16	G1/4	34.5	4.6	5.7	16	17.0	14.0	19.0	7.0	5.0	4.7	16.5	45.0
SC1N3/8-PF1/4	3/8	G1/4	38.4	4.6	5.7	17	17.0	17.0	19.0	7.0	5.7	5.7	24.0	55.0
SC1N3/8-PF3/8	3/8	G3/8	40.5	4.6	6.8	17	19.0	17.0	22.0	10.0	5.7	5.7	24.0	72.0
SC1N1/2-PF3/8	1/2	G3/8	41.6	4.6	6.8	18	19.0	19.0	22.0	10.0	8.2	8.2	47.0	70.0
SC1N1/2-PF1/2	1/2	G1/2	46.3	4.6	9.5	18	22.0	19.0	27.0	14.0	10.0	8.2	49.0	104.0
SC1N5/8-PF1/2	5/8	G1/2	52.2	5.1	9.5	23	23.0	27.0	27.0	14.0	10.0	9.3	63.0	145.0

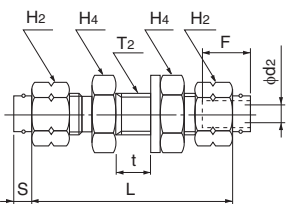
*Made to order

●Inch size type (Group 2)

Product number	Applicable tubing outer diameter (inch)	T Thread size (G)	L (mm)	S (mm)	I (mm)	F Tubing insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	H3 Width across flat (mm)	C (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
SC2N1/4-PF1/8	1/4	G1/8	33.0	4.6	4.0	15	12.0	12.0	14.0	5.0	2.2	2.2	3.5	25.5
SC2N1/4-PF1/4	1/4	G1/4	34.7	4.6	5.7	15	17.0	12.0	19.0	7.0	5.0	2.2	3.5	44.0
SC2N5/16-PF1/4	5/16	G1/4	34.5	4.6	5.7	16	17.0	14.0	19.0	7.0	5.0	2.9	6.0	45.0
SC2N3/8-PF3/8	3/8	G3/8	40.5	4.6	6.8	17	19.0	17.0	22.0	10.0	5.7	3.5	7.0	72.0
SC2N1/2-PF3/8	1/2	G3/8	41.6	4.6	6.8	18	19.0	19.0	22.0	10.0	5.7	5.2	20.5	70.0

Panel touch connector

●Millimeter size type (Group 4)



Product number	Applicable tubing outer diameter/inner diameter (mm)	L (mm)	S (mm)	F Tubing insertion length (mm)	t Max. panel thickness (mm)	H2 Width across flat (mm)	H4 Width across flat (mm)	d2 Min. inner diameter (mm)	T2 Recommended panel hole diameter (mm)	Washer outer diameter (mm)	Washer thickness (mm)	Effective sectional area (mm ²)	Weight (g)
UCT4N4x2	4x2	41.5	4.7	15	8.0	10.0	12.0	0.9	9	15	1.6	0.7	25.0
UCT4N4x3	4x3	41.5	4.7	15	8.0	10.0	12.0	2.0	9	15	1.6	3.0	25.0
UCT4N6x4	6x4	42.0	4.6	15	8.4	12.0	14.0	2.7	11	18	1.6	5.0	33.0
UCT4N6x4.5	6x4.5	42.0	4.6	15	8.4	12.0	14.0	3.2	11	18	1.6	7.5	33.0
UCT4N8x6	8x6	43.3	4.6	16	8.4	14.0	17.0	4.7	13	20	2.0	16.0	48.0
UCT4N10x7.5	10x7.5	45.7	4.2	17	8.1	17.0	19.0	6.2	16	24	2.5	30.0	67.0
UCT4N10x8	10x8	45.7	4.2	17	8.1	17.0	19.0	6.7	16	24	2.5	32.0	67.0
UCT4N12x9	12x9	47.3	4.8	18	8.1	19.0	22.0	7.6	18	28	2.5	40.0	87.0

*Made to order

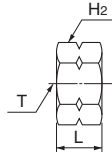
●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (inch)	L (mm)	S (mm)	F Tubing insertion length (mm)	t Max. panel thickness (mm)	H2 Width across flat (mm)	H4 Width across flat (mm)	d2 Min. inner diameter (mm)	T2 Recommended panel hole diameter (mm)	Washer outer diameter (mm)	Washer thickness (mm)	Effective sectional area (mm ²)	Weight (g)
UCT1N1/8	1/8	39.7	4.6	15	8.0	8.0	10.0	1.4	7	11	1.6	1.5	14.5
UCT1N3/16	3/16	41.7	4.6	15	8.0	10.0	12.0	2.4	9	15	1.6	4.0	25.0
UCT1N1/4	1/4	42.1	4.6	15	8.4	12.0	14.0	3.4	11	18	1.6	8.5	32.0
UCT1N5/16	5/16	43.2	4.6	16	8.3	14.0	17.0	4.7	13	20	2.0	16.0	49.0
UCT1N3/8	3/8	44.9	4.6	17	7.7	17.0	19.0	5.7	15	24	2.5	22.5	67.0
UCT1N1/2	1/2	47.6	4.6	18	7.8	19.0	22.0	8.2	18	28	2.5	45.0	86.0

*Made to order

Tubing
 Clean tubing
 Processed tubing
 PushOne fitting
 QuickSeal fitting
 Clean fitting/Chemifit
 Bamboo-shoot fitting
 Control switch/Detachable series
 Jig/Tool/Accessory
 Technical information
 Reference

Brass nut



*The inch size type has no cut.

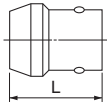
●Millimeter size type (Group 4)

Product number	Applicable tubing outer diameter (mm)	T Thread size (M)	L (mm)	H ₂ Width across flat (mm)	Weight (g)
N4	4	M8×0.75	9.0	10.0	4.0
N6	6	M10×1.0	9.0	12.0	5.0
N8	8	M12×1.0	9.0	14.0	6.0
N10	10	M15×1.0	10.0	17.0	9.0
N12	12	M17×1.0	11.0	19.0	11.0
N16	16	M22×1.0	13.0	27.0	33.0

●Inch size type (Group 1)

Product number	Applicable tubing outer diameter (inch)	T Thread size (M)	L (mm)	H ₂ Width across flat (mm)	Weight (g)
N1/8	1/8	M6×0.75	9.0	8.0	3.0
N3/16	3/16	M8×0.75	9.0	10.0	4.0
N1/4	1/4	M10×1.0	9.0	12.0	5.0
N5/16	5/16	M12×1.0	9.0	14.0	6.0
N3/8	3/8	M14×1.0	10.0	17.0	10.0
N1/2	1/2	M17×1.0	11.5	19.0	11.0
N5/8	5/8	M22×1.0	13.0	27.0	33.0

Nylon sleeve



⚠ Caution: Nylon sleeves that have been used once cannot be reused.

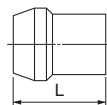
●Millimeter size type (Color: milky white)

Product number	Applicable tubing outer diameter (inch)	L (mm)	Weight (g)
SN4	4	11.0	0.2
SN6	6	11.0	0.2
SN8	8	11.0	0.3
SN10	10	12.0	0.4
SN12	12	13.0	0.5
SN16	16	17.0	1.1

●Inch size type (Color: black)

Product number	Applicable tubing outer diameter (inch)	L (mm)	Weight (g)
SN1/8	1/8	11.0	0.1
SN3/16	3/16	11.0	0.2
SN1/4	1/4	11.0	0.2
SN5/16	5/16	11.0	0.3
SN3/8	3/8	12.0	0.4
SN1/2	1/2	13.0	0.5
SN5/8	5/8	17.0	1.1

Brass sleeve



⚠ Caution: Brass sleeves that have been used once cannot be reused.

●Millimeter size type

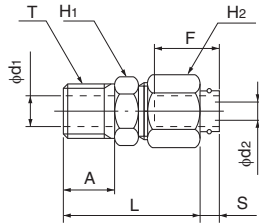
Product number	Applicable tubing outer diameter (inch)	L (mm)	Weight (g)
MSN4	4	9.0	0.7
MSN6	6	9.0	1.0
MSN8	8	9.0	1.3
MSN10	10	10.0	2.1
MSN12	12	11.3	2.8
MSN16	16	17.0	6.7

●Inch size type

Product number	Applicable tubing outer diameter (inch)	L (mm)	Weight (g)
MSN1/8	1/8	11.0	0.6
MSN3/16	3/16	11.0	0.9
MSN1/4	1/4	11.0	1.2
MSN5/16	5/16	11.0	1.7
MSN3/8	3/8	12.0	2.4
MSN1/2	1/2	13.0	3.4

Connector (NPT thread)

●Inch size type (Group 1) NPT thread



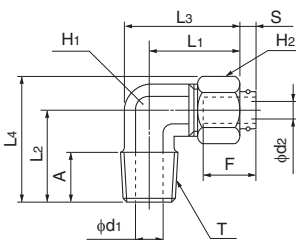
Product number	Applicable tubing outer diameter (inch)	T Thread size (NPT)	L (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	d ₂ Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
* C1N1/8-NPT1/8	1/8	NPT1/8	28.0	11.0	4.6	15	12.0	8.0	5.0	1.4	1.5	11.0
* C1N3/16-NPT1/8	3/16	NPT1/8	28.1	11.0	4.6	15	12.0	10.0	5.0	2.4	4.0	13.0
* C1N1/4-NPT1/8	1/4	NPT1/8	28.0	11.0	4.6	15	12.0	12.0	5.0	3.4	8.5	14.0
* C1N1/4-NPT1/4	1/4	NPT1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	3.4	8.5	22.0
* C1N5/16-NPT1/8	5/16	NPT1/8	28.8	11.0	4.6	16	14.0	14.0	5.0	4.7	16.0	17.0
* C1N5/16-NPT1/4	5/16	NPT1/4	29.8	12.0	4.6	16	14.0	14.0	7.0	4.7	16.0	24.0
* C1N3/8-NPT1/4	3/8	NPT1/4	30.7	12.0	4.6	17	14.0	17.0	7.5	5.7	22.5	28.0
* C1N3/8-NPT3/8	3/8	NPT3/8	31.7	13.0	4.6	17	17.0	17.0	9.0	5.7	22.5	39.0
* C1N1/2-NPT1/4	1/2	NPT1/4	31.8	12.0	4.6	18	17.0	19.0	8.2	8.2	45.0	33.0
* C1N1/2-NPT3/8	1/2	NPT3/8	32.8	13.0	4.6	18	17.0	19.0	9.0	8.2	45.0	40.0
* C1N1/2-NPT1/2	1/2	NPT1/2	40.8	18.0	4.6	18	23.0	19.0	12.0	8.2	45.0	72.0

*Made to order

⚠ Connector (NPT thread) is not sealed.

90 degree elbow (NPT thread)

●Inch size type (Group 1) NPT thread



Product number	Applicable tubing outer diameter (inch)	T Thread size (NPT)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	L ₄ (mm)	A (mm)	S (mm)	F Tubing insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	d ₂ Min. inner diameter (mm)	Effective sectional area (mm ²)	Weight (g)
* L1N3/16-NPT1/8	3/16	NPT1/8	20.6	18.5	26.3	24.3	11.0	4.6	15	10.0	10.0	5.0	2.4	4.0	18.0
* L1N1/4-NPT1/8	1/4	NPT1/8	20.5	18.5	26.3	25.4	11.0	4.6	15	10.0	12.0	5.0	3.4	8.0	20.0
* L1N1/4-NPT1/4	1/4	NPT1/4	23.0	22.0	28.8	28.9	12.0	4.6	15	10.0	12.0	7.0	3.4	8.0	26.0
* L1N5/16-NPT1/8	5/16	NPT1/8	22.8	21.0	29.8	29.1	11.0	4.6	16	12.0	14.0	5.0	4.7	15.0	30.0
* L1N5/16-NPT1/4	5/16	NPT1/4	22.8	22.0	29.8	30.1	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	32.0
* L1N3/8-NPT1/4	3/8	NPT1/4	23.7	22.0	30.6	31.8	12.0	4.6	17	12.0	17.0	7.0	5.7	19.0	50.0
* L1N3/8-NPT3/8	3/8	NPT3/8	26.7	26.0	33.6	35.8	13.0	4.6	17	12.0	17.0	7.0	5.7	19.0	50.0
* L1N1/2-NPT1/4	1/2	NPT1/4	27.8	25.0	35.9	36.0	12.0	4.6	18	14.0	19.0	7.0	8.2	32.0	50.0
* L1N1/2-NPT3/8	1/2	NPT3/8	27.8	26.0	35.9	37.0	13.0	4.6	18	14.0	19.0	9.0	8.2	32.0	53.0
* L1N1/2-NPT1/2	1/2	NPT1/2	30.3	33.0	38.4	44.0	18.0	4.6	18	14.0	19.0	10.0	8.2	32.0	76.0

*Made to order

Tubing
Clean tubing
Processed tubing
PushOne fitting
QuickSeal fitting
Clean fitting/Chemifit
Bamboo-shoot fitting
Control switch/Detachable series
Jig/Tool/Accessory
Technical information
Reference

Reference

Technical
information

Jig/Tool/
Accessory

Control switch/
Detachable
series

Bambo-
shoot fitting

Clean fitting/
Chemifit

**QuickSeal
fitting**

PushOne
fitting

Processed
tubing

Clean
tubing

Tubing