

QuickSeal Series

Insertion type (brass)

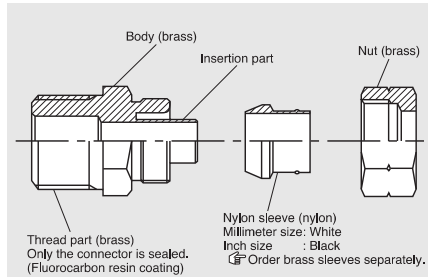
Screw-in type for multi-purpose piping

Features

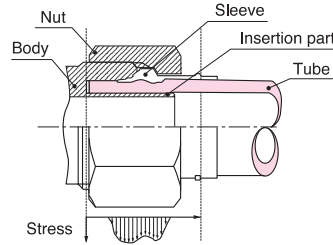
- **Screw-in type**
Consisting of three parts: fitting body, nut and sleeve
- **High sealing performance**
The insertion part is integrated with a fitting body with high negative-pressure performance.
- **Only the connector is sealed.**
Sealing tape is not required.
- **JIS B 8381-1995 (fittings for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



Cross-sectional structure diagram



Sealing mechanism



Product number example

C4N 6×4 - PT1/8

Thread size
Applicable tube outer diameter
Shape, group

Distinction of millimeter/inch sizes



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

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 Tube 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 tube end and insert the tube 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 tube insertion port (sleeve end) of the fitting. Keep the tube straight for twice as long as the tube diameter from the insertion port.

⚠ **Caution** The brass sleeve cannot be used for a fluorocarbon resin TP tube. Choose the nylon sleeve instead.

⚠ **Caution** The outer and the inner diameters of the fitting have to be the same as those of the tube used.

☞ See page34 for the common handling instructions for tube fittings.

Applicable tube

Polyurethane tube	Nylon tube	Flexible fluorocarbon resin bilayer tube	Polybutene tube	Flame-resistant tube ^{*1}	Antistatic tube	Polyolefine resin tube ^{*2}	Fluorocarbon resin tube ^{*2, *3}	Polyurethane processed tube
U2***P.12 U1***P.13 U5***P.14	N2***P.15 N5***P.16 N1***P.17	TES***P.18	PB***P.25	FS***P.20 FW***P.21 FWU***P.22	UE***P.23	PL***P.26 PN***P.27	TA***P.28 TP***P.29	UC***P.30 USC***P.30 UMC***P.30 UML***P.31

(*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 tube and QuickSeal series of insertion type (brass) mixes general and clean type performances.

When using them in a clean environment, pay attention to the clean level that could be lowered.

(*3) The brass sleeve cannot be used for a fluorocarbon resin TP tube. Choose the nylon sleeve instead.

Allied products and product introduction



Reference


Instruction manual.....P.180
Chemical resistance specification table.....P.207
Effective cross-sectional area.....P.176
Negative-pressure performance list.....P.177

QuickSeal Series Insertion type (brass)

Shape list

<p>Connector C*N</p>  <p>P.78</p>	<p>90 degree elbow L*N</p>  <p>P.79</p>	<p>Tee T*N</p>  <p>P.80</p>	<p>Service tee ST*N</p>  <p>P.81</p>	<p>Internal connector FC*N</p>  <p>P.82</p>
<p>Union connector UC*N</p>  <p>P.82</p>	<p>90 degree union elbow UL*N</p>  <p>P.83</p>	<p>Union tee UT*N</p>  <p>P.83</p>	<p>Swivel nut internal connector SC*N</p>  <p>P.84</p>	<p>Panel touch connector UCT*N</p>  <p>P.84</p>
<p>Brass nut N</p>  <p>P.85</p>	<p>Nylon sleeve SN</p>  <p>P.85</p>	<p>Brass sleeve MSN</p>  <p>P.85</p>		

Inch size NPT type (Made to order)

<p>Connector C*N</p>  <p>P.86</p>	<p>90 degree elbow L*N</p>  <p>P.86</p>
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Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/
Chemifit

Bamboo-shoot fitting

Control switch/
Detachable series

Jig/Tool/
Accessory

Technical information

Reference

Connector

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/
Chemifit

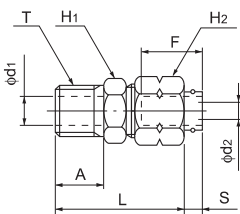
Bamboo-
shoot fitting

Control switch/
Detachable series

Jig/Tool/
Accessory

Technical information

Reference



●Millimeter size type (Group 4)

Product number	Applicable tube outer diameter-inner diameter (mm)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
C4N4×2-PT1/8	4×2	R1/8	28.0	11.0	4.7	15	10.0	10.0	5.0	0.9	0.7	13.0
C4N4×2-PT1/4	4×2	R1/4	30.0	12.0	4.7	15	14.0	10.0	7.0	0.9	0.7	20.0
C4N4×2.5-PT1/8	4×2.5	R1/8	28.0	11.0	4.7	15	10.0	10.0	5.0	1.3	1.5	13.0
C4N4×3-PT1/8	4×3	R1/8	28.0	11.0	4.7	15	10.0	10.0	5.0	2.0	3.0	13.0
C4N6×4-PT1/8	6×4	R1/8	28.0	11.0	4.6	15	10.0	12.0	5.0	2.7	5.0	15.0
C4N6×4-PT1/4	6×4	R1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	2.7	5.0	22.0
C4N6×4-PT3/8	6×4	R3/8	31.0	13.0	4.6	15	17.0	12.0	9.0	2.7	5.5	32.0
C4N6×4.5-PT1/8	6×4.5	R1/8	28.0	11.0	4.6	15	10.0	12.0	5.0	3.2	7.5	15.0
C4N6×4.5-PT1/4	6×4.5	R1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	3.2	7.5	23.0
C4N6×4.5-PT3/8	6×4.5	R3/8	31.0	13.0	4.6	15	17.0	12.0	9.0	3.2	7.5	32.0
C4N8×5-PT1/8	8×5	R1/8	27.9	11.0	4.6	16	12.0	14.0	5.0	3.7	10.0	18.0
C4N8×5-PT1/4	8×5	R1/4	29.9	12.0	4.6	16	14.0	14.0	7.0	3.7	10.0	24.0
C4N8×6-PT1/8	8×6	R1/8	27.9	11.0	4.6	16	12.0	14.0	5.0	4.7	16.0	17.0
C4N8×6-PT1/4	8×6	R1/4	29.9	12.0	4.6	16	14.0	14.0	7.0	4.7	16.0	24.0
C4N8×6-PT3/8	8×6	R3/8	30.9	13.0	4.6	16	17.0	14.0	9.0	4.7	17.0	33.0
C4N10×6.5-PT1/4	10×6.5	R1/4	31.1	12.0	4.2	17	17.0	17.0	7.0	5.2	20.5	32.0
C4N10×6.5-PT3/8	10×6.5	R3/8	32.1	13.0	4.2	17	17.0	17.0	9.0	5.2	20.5	38.0
C4N10×7.5-PT1/4	10×7.5	R1/4	31.1	12.0	4.2	17	17.0	17.0	7.0	6.2	30.0	32.0
C4N10×7.5-PT3/8	10×7.5	R3/8	32.1	13.0	4.2	17	17.0	17.0	9.0	6.2	30.0	37.0
C4N10×7.5-PT1/2	10×7.5	R1/2	40.1	18.0	4.2	17	22.0	17.0	12.0	6.2	30.0	68.5
C4N10×8-PT1/4	10×8	R1/4	31.1	12.0	4.2	17	15.0	17.0	7.0	6.7	32.0	29.0
C4N10×8-PT3/8	10×8	R3/8	32.1	13.0	4.2	17	17.0	17.0	9.0	6.7	32.0	37.0
C4N10×8-PT1/2	10×8	R1/2	40.1	18.0	4.2	17	22.0	17.0	12.0	6.7	33.5	80.0
C4N12×8-PT3/8	12×8	R3/8	35.6	13.0	4.8	18	17.0	19.0	9.0	6.6	32.0	47.0
C4N12×8-PT1/2	12×8	R1/2	40.6	18.0	4.8	18	23.0	19.0	12.0	6.6	33.5	75.0
C4N12×9-PT1/4	12×9	R1/4	31.6	12.0	4.8	18	17.0	19.0	7.6	7.6	40.0	34.0
C4N12×9-PT3/8	12×9	R3/8	35.6	13.0	4.8	18	17.0	19.0	9.0	7.6	40.0	40.5
C4N12×9-PT1/2	12×9	R1/2	40.6	18.0	4.8	18	23.0	19.0	12.0	7.6	40.0	74.0
C4N16×13-PT1/2	16×13	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)

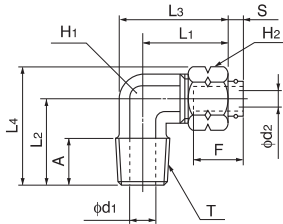
Product number	Applicable tube outer diameter (inch)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
C1N1/8-PT1/8	1/8	R1/8	28.0	11.0	4.6	15	10.0	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 tube outer diameter (inch)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-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 tube outer diameter/inner diameter (mm)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	L ₄ (mm)	A (mm)	S (mm)	F Tube 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 cross-sectional area (mm ²)	Weight (g)
L4N4×2-PT1/8	4×2	R1/8	20.5	18.5	26.2	24.3	11.0	4.7	15	10.0	10.0	5.0	0.9	0.5	19.0
L4N4×2-PT1/4	4×2	R1/4	20.5	22.0	27.4	28.9	12.0	4.7	15	12.0	10.0	7.0	0.9	0.5	28.0
L4N4×2.5-PT1/8	4×2.5	R1/8	20.5	18.5	26.2	24.3	11.0	4.7	15	10.0	10.0	5.0	1.3	1.5	19.0
L4N4×3-PT1/8	4×3	R1/8	20.5	18.5	26.2	24.3	11.0	4.7	15	10.0	10.0	5.0	2.0	2.5	19.0
L4N6×4-PT1/8	6×4	R1/8	20.5	18.5	26.3	25.4	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	21.0
L4N6×4-PT1/4	6×4	R1/4	23.0	22.0	29.9	28.9	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	32.0
L4N6×4.5-PT1/8	6×4.5	R1/8	20.5	18.5	26.3	25.4	11.0	4.6	15	10.0	12.0	5.0	3.2	7.0	21.0
L4N6×4.5-PT1/4	6×4.5	R1/4	23.0	22.0	29.9	28.9	12.0	4.6	15	12.0	12.0	7.0	3.2	7.0	32.0
L4N8×5-PT1/8	8×5	R1/8	22.9	21.0	29.8	29.1	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	31.0
L4N8×5-PT1/4	8×5	R1/4	22.9	22.0	29.8	30.1	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	32.5
L4N8×6-PT1/8	8×6	R1/8	22.9	21.0	29.8	29.1	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	31.0
L4N8×6-PT1/4	8×6	R1/4	22.9	22.0	29.8	30.1	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	32.5
L4N8×6-PT3/8	8×6	R3/8	22.9	26.0	31.0	34.1	13.0	4.6	16	14.0	14.0	9.0	4.7	15.0	45.0
L4N10×6.5-PT1/4	10×6.5	R1/4	27.1	25.0	35.2	34.8	13.5	4.2	17	14.0	17.0	7.0	5.2	18.0	47.0
L4N10×6.5-PT3/8	10×6.5	R3/8	27.1	26.0	35.2	35.8	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	50.0
L4N10×7.5-PT1/4	10×7.5	R1/4	27.1	25.0	35.2	34.8	13.5	4.2	17	14.0	17.0	7.0	6.2	24.0	48.0
L4N10×7.5-PT3/8	10×7.5	R3/8	27.1	26.0	35.2	35.8	13.0	4.2	17	14.0	17.0	9.0	6.2	26.0	51.0
L4N10×7.5-PT1/2	10×7.5	R1/2	27.1	33.0	37.9	42.8	18.0	4.2	17	14.0	17.0	10.0	6.2	26.0	83.0
L4N10×8-PT1/4	10×8	R1/4	27.1	25.0	35.2	34.8	13.5	4.2	17	14.0	17.0	7.0	6.7	25.0	48.0
L4N10×8-PT3/8	10×8	R3/8	27.1	26.0	35.2	35.8	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	51.0
L4N10×8-PT1/2	10×8	R1/2	27.1	33.0	37.9	42.8	18.0	4.2	17	14.0	17.0	10.0	6.7	30.0	83.0
L4N12×8-PT3/8	12×8	R3/8	27.6	26.0	35.7	37.0	13.0	4.8	18	14.0	19.0	9.0	6.6	25.0	53.0
L4N12×8-PT1/2	12×8	R1/2	30.1	33.0	40.9	44.0	18.0	4.8	18	14.0	19.0	10.0	6.6	30.0	90.0
L4N12×9-PT1/4	12×9	R1/4	27.6	25.0	35.7	36.0	13.5	4.8	18	14.0	19.0	7.0	7.6	33.0	50.0
L4N12×9-PT3/8	12×9	R3/8	27.6	26.0	35.7	37.0	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	54.0
L4N12×9-PT1/2	12×9	R1/2	30.6	33.0	41.4	44.0	18.0	4.8	18	14.0	19.0	10.0	7.6	33.0	91.0
L4N16×13-PT1/2	16×13	R1/2	36.7	33.0	47.1	48.6	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 tube outer diameter (inch)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	L ₄ (mm)	A (mm)	S (mm)	F Tube 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 cross-sectional area (mm ²)	Weight (g)
L1N1/8-PT1/8	1/8	R1/8	20.5	18.5	26.3	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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 tube outer diameter (inch)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	L ₄ (mm)	A (mm)	S (mm)	F Tube 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 cross-sectional area (mm ²)	Weight (g)
L2N1/8-PT1/8	1/8	R1/8	20.5	18.5	26.3	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	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	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	30.0	28.9	12.0	4.6	15	12.0	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	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	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	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	13.0	4.6	17	14.0	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	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	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	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.

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

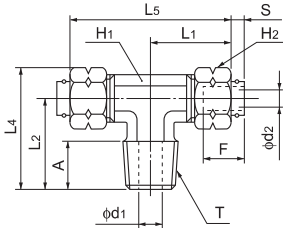
Jig/Tool/ Accessory

Technical information

Reference

QuickSeal Series Insertion type (brass)

Tee



●Millimeter size type (Group 4)

Product number	Applicable tube outer diameter/inner diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
T4N4×2-PT1/8	4×2	R1/8	20.5	18.5	24.3	41.0	11.0	4.7	15	10.0	10.0	5.0	0.9	0.5	25.0
T4N4×2.5-PT1/8	4×2.5	R1/8	20.5	18.5	24.3	41.0	11.0	4.7	15	10.0	10.0	5.0	1.3	1.5	25.0
T4N4×3-PT1/8	4×3	R1/8	20.5	18.5	24.3	41.0	11.0	4.7	15	10.0	10.0	5.0	2.0	2.5	25.0
T4N6×4-PT1/8	6×4	R1/8	20.5	18.5	25.4	41.0	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	30.0
T4N6×4-PT1/4	6×4	R1/4	23.0	22.0	28.9	46.0	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	43.0
T4N6×4.5-PT1/8	6×4.5	R1/8	20.5	18.5	25.4	41.0	11.0	4.6	15	10.0	12.0	5.0	3.2	7.0	31.0
T4N6×4.5-PT1/4	6×4.5	R1/4	23.0	22.0	28.9	46.0	12.0	4.6	15	12.0	12.0	7.0	3.2	7.0	43.0
T4N8×5-PT1/8	8×5	R1/8	22.9	21.0	29.1	45.8	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	43.0
T4N8×5-PT1/4	8×5	R1/4	22.9	22.0	30.1	45.8	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	45.0
T4N8×6-PT1/8	8×6	R1/8	22.9	21.0	29.1	45.8	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	42.0
T4N8×6-PT1/4	8×6	R1/4	22.9	22.0	30.1	45.8	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	44.0
T4N8×6-PT3/8	8×6	R3/8	22.9	26.0	34.1	45.8	13.0	4.6	16	14.0	14.0	9.0	4.7	15.0	58.0
T4N10×6.5-PT1/4	10×6.5	R1/4	27.1	25.0	34.8	54.2	12.0	4.2	17	14.0	17.0	7.0	5.2	18.0	73.0
T4N10×6.5-PT3/8	10×6.5	R3/8	28.1	26.0	35.8	56.2	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	78.0
T4N10×7.5-PT1/4	10×7.5	R1/4	27.1	25.0	34.8	54.2	12.0	4.2	17	14.0	17.0	7.0	6.2	24.0	70.0
T4N10×7.5-PT3/8	10×7.5	R3/8	27.1	26.0	35.8	54.2	13.0	4.2	17	14.0	17.0	9.0	6.2	26.0	76.0
T4N10×7.5-PT1/2	10×7.5	R1/2	27.1	33.0	43.4	54.2	18.0	4.2	17	18.0	17.0	12.0	6.2	26.0	110.0
T4N10×8-PT1/4	10×8	R1/4	27.1	25.0	34.8	54.2	12.0	4.2	17	14.0	17.0	7.0	6.7	25.0	69.0
T4N10×8-PT3/8	10×8	R3/8	27.1	26.0	35.8	54.2	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	75.0
T4N10×8-PT1/2	10×8	R1/2	27.1	33.0	43.4	54.2	18.0	4.2	17	18.0	17.0	12.0	6.7	30.0	109.0
T4N12×8-PT3/8	12×8	R3/8	27.6	25.0	36.0	55.3	13.0	4.8	18	14.0	19.0	9.0	6.6	25.0	82.0
T4N12×8-PT1/2	12×8	R1/2	30.6	33.0	44.0	61.3	18.0	4.8	18	18.0	19.0	12.0	6.6	30.0	128.0
T4N12×9-PT1/4	12×9	R1/4	27.6	25.0	36.0	55.3	12.0	4.8	18	14.0	19.0	7.0	7.6	33.0	75.0
T4N12×9-PT3/8	12×9	R3/8	27.6	26.0	37.0	55.3	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	82.0
T4N12×9-PT1/2	12×9	R1/2	30.6	33.0	44.0	61.3	18.0	4.8	18	18.0	19.0	12.0	7.6	33.0	128.0
T4N16×13-PT1/2	16×13	R1/2	36.7	33.0	48.6	73.4	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 tube outer diameter (inch)	T Thread size (R)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
T1N1/8-PT1/8	1/8	R1/8	20.5	18.5	24.3	41.1	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	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	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	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	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	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	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	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	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	43.4	59.4	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	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	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	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	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 tube outer diameter (inch)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
T2N1/8-PT1/8	1/8	R1/8	20.5	18.5	24.3	41.1	11.0	4.6	21	10.0	8.0	5.0	3.0	1.5	20.5
T2N3/16-PT1/8	3/16	R1/8	20.6	18.5	24.3	41.1	11.0	4.6	15	10.0	10.0	5.0	1.4	1.5	25.0
T2N1/4-PT1/8	1/4	R1/8	20.5	18.5	25.4	41.1	11.0	4.6	15	10.0	12.0	5.0	2.2	3.5	30.0
T2N1/4-PT1/4	1/4	R1/4	23.0	22.0	28.9	46.1	12.0	4.6	15	12.0	12.0	7.0	2.2	3.5	43.0
T2N5/16-PT1/8	5/16	R1/8	22.8	21.0	29.1	45.7	11.0	4.6	16	12.0	14.0	5.0	2.9	5.0	45.0
T2N5/16-PT1/4	5/16	R1/4	22.8	22.0	30.1	45.7	12.0	4.6	16	12.0	14.0	7.0	2.9	5.0	43.0
T2N3/8-PT1/4	3/8	R1/4	23.7	22.0	31.8	47.4	12.0	4.6	17	12.0	17.0	7.0	3.5	7.5	57.0
T2N3/8-PT3/8	3/8	R3/8	26.7	26.0	35.8	53.4	13.0	4.6	17	14.0	17.0	9.0	3.5	7.5	78.0
T2N1/2-PT3/8	1/2	R3/8	27.8	26.0	37.0	55.6	13.0	4.6	18	14.0	19.0	9.0	5.2	18.0	80.0

☆C2N1/8-PT1/8 is of insertless type.

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemfit

Bamboo-shoot fitting

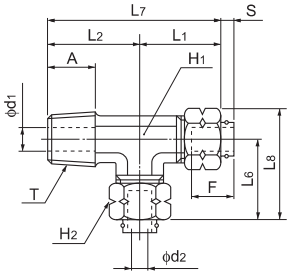
Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference

Service tee



●Millimeter size type (Group 4)

Product number	Applicable tube outer diameter:inner diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
ST4N4×2-PT1/8	4×2	R1/8	20.5	18.5	20.5	39.0	26.2	11.0	4.7	15	10.0	10.0	5.0	0.9	0.5	26.0
ST4N4×2.5-PT1/8	4×2.5	R1/8	20.5	18.5	20.5	39.0	26.2	11.0	4.7	15	10.0	10.0	5.0	1.3	1.5	26.0
ST4N4×3-PT1/8	4×3	R1/8	20.5	18.5	20.5	39.0	26.2	11.0	4.7	15	10.0	10.0	5.0	2.0	2.5	26.0
ST4N6×4-PT1/8	6×4	R1/8	20.5	18.5	20.5	39.0	27.4	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	41.0
ST4N6×4-PT1/4	6×4	R1/4	23.0	22.0	23.0	45.0	29.9	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	30.0
ST4N6×4.5-PT1/8	6×4.5	R1/8	20.5	18.5	20.5	39.0	27.4	11.0	4.6	15	10.0	12.0	5.0	3.2	7.0	41.0
ST4N6×4.5-PT1/4	6×4.5	R1/4	23.0	22.0	23.0	45.0	29.9	12.0	4.6	15	12.0	12.0	7.0	3.2	7.0	43.0
ST4N8×5-PT1/8	8×5	R1/8	22.9	21.0	22.9	43.9	31.0	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	43.0
ST4N8×5-PT1/4	8×5	R1/4	22.9	22.0	22.9	44.9	31.0	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	43.0
ST4N8×6-PT1/8	8×6	R1/8	22.9	21.0	22.9	43.9	31.0	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	45.0
ST4N8×6-PT1/4	8×6	R1/4	22.9	22.0	22.9	44.9	31.0	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	46.0
ST4N8×6-PT3/8	8×6	R3/8	22.9	26.0	22.9	48.9	31.0	13.0	4.6	16	14.0	14.0	9.0	4.7	15.0	60.0
ST4N10×6.5-PT1/4	10×6.5	R1/4	27.1	25.0	27.1	52.1	36.9	12.0	4.2	17	14.0	17.0	7.0	5.2	18.0	72.0
ST4N10×6.5-PT3/8	10×6.5	R3/8	27.1	26.0	27.1	53.1	36.9	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	70.0
ST4N10×7.5-PT1/4	10×7.5	R1/4	27.1	25.0	27.1	52.1	36.9	12.0	4.2	17	14.0	17.0	7.0	6.2	24.0	70.0
ST4N10×7.5-PT3/8	10×7.5	R3/8	27.1	26.0	27.1	53.1	36.9	13.0	4.2	17	14.0	17.0	9.0	6.2	26.0	76.0
ST4N10×7.5-PT1/2	10×7.5	R1/2	27.1	35.5	27.1	62.6	37.5	18.0	4.2	17	18.0	17.0	12.0	6.2	26.0	74.0
ST4N10×8-PT1/4	10×8	R1/4	27.1	25.0	27.1	52.1	36.9	12.0	4.2	17	14.0	17.0	7.0	6.7	25.0	76.0
ST4N10×8-PT3/8	10×8	R3/8	27.1	26.0	27.1	53.1	36.9	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	113.0
ST4N10×8-PT1/2	10×8	R1/2	27.1	35.5	27.1	62.6	37.5	18.0	4.2	17	18.0	17.0	12.0	6.7	30.0	125.0
ST4N12×8-PT3/8	12×8	R3/8	27.6	26.0	27.6	53.6	38.6	13.0	4.8	18	14.0	19.0	9.0	6.6	25.0	81.0
ST4N12×8-PT1/2	12×8	R1/2	30.1	35.5	30.1	65.6	41.1	18.0	4.8	18	18.0	19.0	12.0	6.6	30.0	82.0
ST4N12×9-PT3/8	12×9	R3/8	27.6	26.0	27.6	53.6	38.6	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	130.0
ST4N12×9-PT1/2	12×9	R1/2	30.1	35.5	30.1	65.6	41.1	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 tube outer diameter (inch)	T Thread size (R)	L1 (mm)	L2 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
ST1N1/8-PT1/8	1/8	R1/8	20.5	18.5	20.5	39.0	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	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	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	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	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	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	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	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	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	39.6	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	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	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	36.7	72.2	52.3	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 tube outer diameter (inch)	T Thread size (R)	L1 (mm)	L2 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
ST2N1/8-PT1/8	1/8	R1/8	20.5	18.5	20.5	39.0	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	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	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	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	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	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	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	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	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

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemfit

Bamboo-shoot fitting

Control switch/ Detachable series

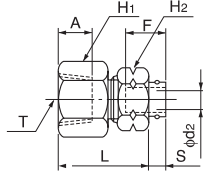
Jig/Tool/ Accessory

Technical information

Reference

Internal connector

●Millimeter size type (Group 4)



Product number	Applicable tube outer diameter/inner diameter (mm)	T Thread size (Rc)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₂ Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
FC4N4×2-PT1/8	4×2	Rc1/8	25.0	8.7	4.7	15	14.0	10.0	0.9	0.5	18.0
FC4N4×3-PT1/8	4×3	Rc1/8	25.0	8.7	4.7	15	14.0	10.0	2.0	3.0	18.0
FC4N6×4-PT1/8	6×4	Rc1/8	25.0	8.7	4.6	15	14.0	12.0	2.7	5.0	20.0
FC4N6×4-PT1/4	6×4	Rc1/4	29.0	13.0	4.6	15	17.0	12.0	2.7	5.0	29.0
FC4N6×4-PT3/8	6×4	Rc3/8	30.0	13.5	4.6	15	22.0	12.0	2.7	5.0	43.0
FC4N6×4.5-PT1/8	6×4.5	Rc1/8	25.0	8.7	4.6	15	14.0	12.0	3.2	7.5	20.0
FC4N6×4.5-PT1/4	6×4.5	Rc1/4	29.0	13.0	4.6	15	17.0	12.0	3.2	7.5	29.0
FC4N8×6-PT1/8	8×6	Rc1/8	24.9	8.7	4.6	16	14.0	14.0	4.7	16.0	22.0
FC4N8×6-PT1/4	8×6	Rc1/4	28.9	13.0	4.6	16	17.0	14.0	4.7	16.0	31.0
FC4N8×6-PT3/8	8×6	Rc3/8	29.9	13.5	4.6	16	22.0	14.0	4.7	16.0	48.0
FC4N10×7.5-PT1/4	10×7.5	Rc1/4	30.1	13.0	4.2	17	17.0	17.0	6.2	30.0	35.0
FC4N10×7.5-PT3/8	10×7.5	Rc3/8	31.1	13.5	4.2	17	22.0	17.0	6.2	30.0	51.0
FC4N10×7.5-PT1/2	10×7.5	Rc1/2	35.1	17.5	4.2	17	24.0	17.0	6.2	30.0	59.0
FC4N10×8-PT1/4	10×8	Rc1/4	30.1	13.0	4.2	17	17.0	17.0	6.7	32.0	35.0
FC4N10×8-PT3/8	10×8	Rc3/8	31.1	13.5	4.2	17	22.0	17.0	6.7	32.0	51.0
FC4N10×8-PT1/2	10×8	Rc1/2	35.1	17.5	4.2	17	24.0	17.0	6.7	32.0	58.0
FC4N12×9-PT3/8	12×9	Rc3/8	31.6	13.5	4.8	18	22.0	19.0	7.6	40.0	55.0
FC4N12×9-PT1/2	12×9	Rc1/2	35.6	17.5	4.8	18	24.0	19.0	7.6	40.0	62.0

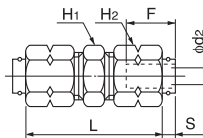
*Made to order

●Inch size type (Group 1)

Product number	Applicable tube outer diameter (inch)	T Thread size (Rc)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₂ Min. inner diameter (mm)	Effective cross-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)



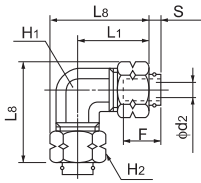
Product number	Applicable tube outer diameter/inner diameter (mm)	L (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₂ Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UC4N4×2	4×2	32.9	4.7	15	10.0	10.0	0.9	0.5	16.0
UC4N4×2.5	4×2.5	32.9	4.7	15	10.0	10.0	1.3	1.5	16.0
UC4N4×3	4×3	32.9	4.7	15	10.0	10.0	2.0	3.0	16.0
UC4N6×4	6×4	33.0	4.6	15	10.0	12.0	2.7	5.0	20.0
UC4N6×4.5	6×4.5	33.0	4.6	15	10.0	12.0	3.2	7.5	20.0
UC4N8×5	8×5	32.8	4.6	16	12.0	14.0	3.7	10.0	28.0
UC4N8×6	8×6	32.8	4.6	16	12.0	14.0	4.7	16.0	25.0
UC4N10×6.5	10×6.5	36.2	4.2	17	17.0	17.0	5.2	20.5	44.0
UC4N10×7.5	10×7.5	36.2	4.2	17	17.0	17.0	6.2	30.0	45.0
UC4N10×8	10×8	36.2	4.2	17	17.0	17.0	6.7	32.0	44.0
UC4N12×8	12×8	37.3	4.8	18	17.0	19.0	6.6	32.0	49.0
UC4N12×9	12×9	37.3	4.8	18	17.0	19.0	7.6	40.0	51.0

●Inch size type (Group 1)

Product number	Applicable tube outer diameter (inch)	L (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₂ Min. inner diameter (mm)	Effective cross-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

90 degree union elbow

●Millimeter size type (Group 4)



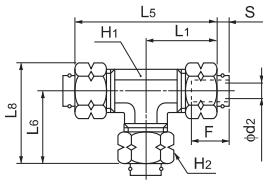
Product number	Applicable tube outer diameter-inner diameter (mm)	L1 (mm)	L8 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UL4N4×2	4×2	20.5	26.2	4.7	15	10.0	10.0	0.9	0.6	20.0
UL4N4×2.5	4×2.5	20.5	26.2	4.7	15	10.0	10.0	1.3	1.0	20.0
UL4N4×3	4×3	20.5	26.2	4.7	15	10.0	10.0	2.0	2.0	20.0
UL4N6×4	6×4	20.5	27.4	4.6	15	10.0	12.0	2.7	4.0	25.0
UL4N6×4.5	6×4.5	20.5	27.4	4.6	15	10.0	12.0	3.2	5.5	25.0
UL4N8×5	8×5	22.9	31.0	4.6	16	12.0	14.0	3.7	7.5	37.0
UL4N8×6	8×6	22.9	31.0	4.6	16	12.0	14.0	4.7	12.5	36.0
UL4N10×6.5	10×6.5	27.1	36.9	4.2	17	14.0	17.0	5.2	15.5	59.0
UL4N10×7.5	10×7.5	27.1	36.9	4.2	17	14.0	17.0	6.2	22.0	56.0
UL4N10×8	10×8	27.1	36.9	4.2	17	14.0	17.0	6.7	25.0	57.0
UL4N12×8	12×8	27.6	38.6	4.8	18	14.0	19.0	6.6	25.0	63.0
UL4N12×9	12×9	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 tube outer diameter (inch)	L1 (mm)	L8 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-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 tube outer diameter-inner diameter (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UT4N4×2	4×2	20.5	40.9	20.5	26.2	4.7	15	10.0	10.0	0.9	0.6	27.0
UT4N4×2.5	4×2.5	20.5	40.9	20.5	26.2	4.7	15	10.0	10.0	1.3	1.0	28.0
UT4N4×3	4×3	20.5	40.9	20.5	26.2	4.7	15	10.0	10.0	2.0	2.0	26.0
UT4N6×4	6×4	20.5	41.0	20.5	27.4	4.6	15	10.0	12.0	2.7	4.0	35.0
UT4N6×4.5	6×4.5	20.5	41.0	20.5	27.4	4.6	15	10.0	12.0	3.2	5.5	35.0
UT4N8×5	8×5	22.9	45.8	22.9	31.0	4.6	16	12.0	14.0	3.7	7.5	49.0
UT4N8×6	8×6	22.9	45.8	22.9	31.0	4.6	16	12.0	14.0	4.7	12.5	48.0
UT4N10×6.5	10×6.5	27.1	54.2	27.1	36.9	4.2	17	14.0	17.0	5.2	15.5	82.0
UT4N10×7.5	10×7.5	27.1	54.2	27.1	36.9	4.2	17	14.0	17.0	6.2	22.0	80.0
UT4N10×8	10×8	27.1	54.2	27.1	36.9	4.2	17	14.0	17.0	6.7	25.0	77.0
UT4N12×8	12×8	27.6	55.3	27.6	38.6	4.8	18	14.0	19.0	6.6	25.0	90.0
UT4N12×9	12×9	27.6	55.3	27.6	38.6	4.8	18	14.0	19.0	7.6	25.0	85.0

●Inch size type (Group 1)

Product number	Applicable tube outer diameter (inch)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-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	36.7	52.3	5.1	23	18.0	27.0	9.3	45.0	189.0

●Inch size type (Group 2)

Product number	Applicable tube outer diameter (inch)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-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.

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemfit

Bamboo-shoot fitting

Control switch/ Detachable series

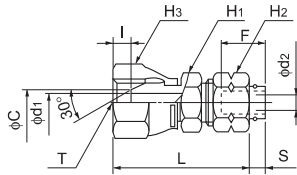
Jig/Tool/ Accessory

Technical information

Reference

Swivel nut internal connector

●Millimeter size type (Group 4)



Product number	Applicable tube outer diameter/inner diameter (mm)	T Thread size (G)	L (mm)	S (mm)	I (mm)	F Tube 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 cross-sectional area (mm ²)	Weight (g)
SC4N4×2-PF1/8	4×2	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
SC4N6×4-PF1/8	6×4	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
SC4N6×4-PF1/4	6×4	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
SC4N6×4.5-PF1/8	6×4.5	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
SC4N6×4.5-PF1/4	6×4.5	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
SC4N8×6-PF1/4	8×6	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
SC4N10×7.5-PF1/4	10×7.5	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
SC4N10×7.5-PF3/8	10×7.5	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
SC4N10×8-PF1/4	10×8	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
SC4N10×8-PF3/8	10×8	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
SC4N12×9-PF3/8	12×9	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
SC4N12×9-PF1/2	12×9	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 tube outer diameter (inch)	T Thread size (G)	L (mm)	S (mm)	I (mm)	F Tube 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 cross-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

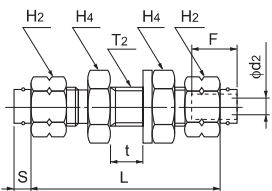
*Made to order

●Inch size type (Group 2)

Product number	Applicable tube outer diameter (inch)	T Thread size (G)	L (mm)	S (mm)	I (mm)	F Tube 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 cross-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 tube outer diameter/inner diameter (mm)	L (mm)	S (mm)	F Tube 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 cross-sectional area (mm ²)	Weight (g)
UCT4N4×2	4×2	41.5	4.7	15	8.0	10.0	12.0	0.9	9	15	1.6	0.7	25.0
UCT4N4×3	4×3	41.5	4.7	15	8.0	10.0	12.0	2.0	9	15	1.6	3.0	25.0
UCT4N6×4	6×4	42.0	4.6	15	8.4	12.0	14.0	2.7	11	18	1.6	5.0	33.0
UCT4N6×4.5	6×4.5	42.0	4.6	15	8.4	12.0	14.0	3.2	11	18	1.6	7.5	33.0
UCT4N8×6	8×6	43.3	4.6	16	8.4	14.0	17.0	4.7	13	20	2.0	16.0	48.0
UCT4N10×7.5	10×7.5	45.7	4.2	17	8.1	17.0	19.0	6.2	16	24	2.5	30.0	67.0
UCT4N10×8	10×8	45.7	4.2	17	8.1	17.0	19.0	6.7	16	24	2.5	32.0	67.0
UCT4N12×9	12×9	47.3	4.8	18	8.1	19.0	22.0	7.6	18	28	2.5	40.0	87.0

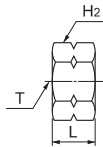
*Made to order

●Inch size type (Group 1)

Product number	Applicable tube outer diameter (inch)	L (mm)	S (mm)	F Tube 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 cross-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

Brass nut



*The inch size type has no cut.

●Millimeter size type (Group 4)

Product number	Applicable tube 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 tube 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



●Millimeter size type (Color: milky white)

Product number	Applicable tube outer diameter (mm)	L (mm)
SN4	4	11.0
SN6	6	11.0
SN8	8	11.0
SN10	10	12.0
SN12	12	13.0
SN16	16	17.0

●Inch size type (Color: black)

Product number	Applicable tube outer diameter (inch)	L (mm)
SN1/8	1/8	11.0
SN3/16	3/16	11.0
SN1/4	1/4	11.0
SN5/16	5/16	11.0
SN3/8	3/8	12.0
SN1/2	1/2	13.0
SN5/8	5/8	17.0

Brass sleeve



●Millimeter size type

Product number	Applicable tube outer diameter (mm)	L (mm)
MSN4	4	9.0
MSN6	6	9.0
MSN8	8	9.0
MSN10	10	10.0
MSN12	12	11.3
MSN16	16	17.0

●Inch size type

Product number	Applicable tube outer diameter (inch)	L (mm)
MSN1/8	1/8	11.0
MSN3/16	3/16	11.0
MSN1/4	1/4	11.0
MSN5/16	5/16	11.0
MSN3/8	3/8	12.0
MSN1/2	1/2	13.0

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/
Chemifit

Bamboo-
shoot fitting

Control switch/
Detachable series

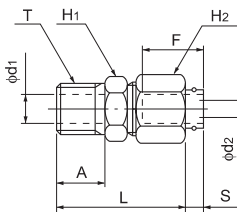
Jig/Tool/
Accessory

Technical information

Reference

Connector (NPT thread)

●Inch size type (Group 1) NPT thread

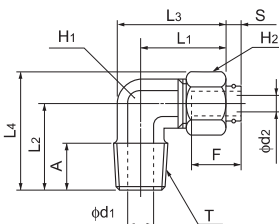


Product number	Applicable tube outer diameter (inch)	T Thread size (NPT)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
* C1N1/8-NPT1/8	1/8	NPT1/8	28.0	11.0	4.6	15	10.0	8.0	5.0	1.4	1.5	11.0
* C1N3/16N-PT1/8	3/16	NPT1/8	28.1	11.0	4.6	15	10.0	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	10.0	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	27.8	11.0	4.6	16	12.0	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

90 degree elbow (NPT thread)

●Inch size type (Group 1) NPT thread



Product number	Applicable tube outer diameter (inch)	T Thread size (NPT)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-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	29.8	28.9	12.0	4.6	15	10.0	12.0	7.0	3.4	8.0	26.0
* L1N5/16N-PT1/8	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	35.2	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	13.5	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	36.3	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	30.8	33.0	41.6	44.0	18.0	4.6	18	14.0	19.0	10.0	8.2	32.0	76.0

*Made to order

Reference

Technical information

Jig/Tool/Accessory

Control switch/
Detachable series

Bamboo-shoot fitting

Clean fitting/
Chemifit

QuickSeal fitting

PushOne fitting

Processed tube

Clean tube

Tube

QuickSeal Series

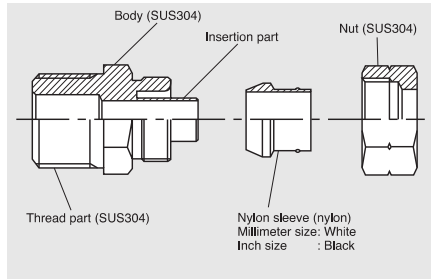
Insertion type (stainless)

Screw-in type for multi-purpose piping (made of SUS304)

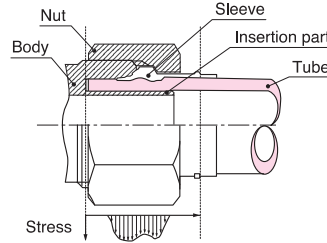
Features

- 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.
- Made of SUS304 with high corrosion resistance
- 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
Water	Nylon sleeve	0°C~+70°C
General operating oil	Nylon sleeve	-40°C~+80°C

☞ Contact us for various chemical liquids.

☞ See "Combination List of Tube 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 the nut periodically. If the nut cannot be tightened further, cut the tube end and insert the tube again with a new sleeve.

⚠ **Caution** When water is used as the operating fluid, do not allow it to freeze.

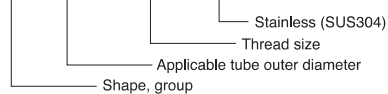
⚠ **Caution** Do not bend the pipe sharply near the tube insertion port (sleeve end) of the fitting. Keep the tube straight for twice as long as the tube diameter from the insertion port.

⚠ **Caution** The outer and the inner diameters of the fitting have to be the same as those of the tube used.

☞ See page 34 for the common handling instructions for tube fittings.

Product number example

C4N 6×4 - PT1/8 - S







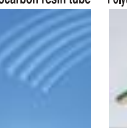



Distinction of millimeter/inch sizes



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

Applicable tube

Polyurethane tube	Nylon tube	Flexible fluorocarbon resin bilayer tube	Polybutene tube	Antistatic tube	Polyolefine resin tube	Fluorocarbon resin tube	Polyurethane processed tube
							
U2...P.12 U1...P.13 U5...P.14	N2...P.15 N5...P.16 N1...P.17	TES...P.18	PB...P.25	UE...P.23	PL...P.26 PN...P.27	TA...P.28 TP...P.29	UC...P.30 USC...P.30 UMC...P.30 UML...P.31

(*1) Combinatory use of PL, PN, TA or TP tube and QuickSeal series of insertion type (stainless) mixes general and clean type performances.
When using them in a clean environment, pay attention to the clean level that could be lowered.

Allied products and product introduction



Reference

Instruction manual.....P.180
Chemical resistance specification table.....P.207
Effective cross-sectional areaP.176
Negative-pressure performance listP.177

QuickSeal Series Insertion type (stainless)

Shape list



Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/
Chemifit

Bamboo-
shoot fitting

Control switch/
Detachable series

Jig/Tool/
Accessory

Technical information

Reference

QuickSeal Series Insertion type (stainless)

Connector

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/
Chemifit

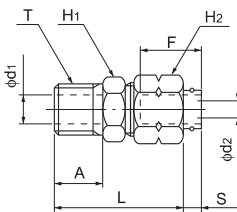
Bamboo-
shoot fitting

Control switch/
Detachable series

Jig/Tool/
Accessory

Technical information

Reference



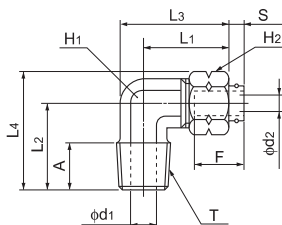
●Millimeter size type (Group 4)

Product number	Applicable tube outer diameter- inner diameter (mm)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross- sectional area (mm ²)	Weight (g)
C4N6×4-PT1/8-S	6×4	R1/8	28.0	11.0	4.6	15	10.0	12.0	5.0	2.7	5.0	15.0
C4N6×4-PT1/4-S	6×4	R1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	2.7	5.0	22.0
C4N8×5-PT1/8-S	8×5	R1/8	27.9	11.0	4.6	16	12.0	14.0	5.0	3.7	10.0	18.0
C4N8×5-PT1/4-S	8×5	R1/4	29.9	12.0	4.6	16	14.0	14.0	7.0	3.7	10.0	24.0
C4N8×6-PT1/8-S	8×6	R1/8	27.9	11.0	4.6	16	12.0	14.0	5.0	4.7	16.0	17.0
C4N8×6-PT1/4-S	8×6	R1/4	29.9	12.0	4.6	16	14.0	14.0	7.0	4.7	16.0	24.0
C4N10×6.5-PT1/4-S	10×6.5	R1/4	31.1	12.0	4.2	17	17.0	17.0	7.0	5.2	20.5	32.0
C4N10×6.5-PT3/8-S	10×6.5	R3/8	32.1	13.0	4.2	17	17.0	17.0	9.0	5.2	20.5	38.0
C4N10×8-PT1/4-S	10×8	R1/4	31.1	12.0	4.2	17	15.0	17.0	7.0	6.7	32.0	29.0
C4N10×8-PT3/8-S	10×8	R3/8	32.1	13.0	4.2	17	17.0	17.0	9.0	6.7	32.0	37.0
C4N12×8-PT3/8-S	12×8	R3/8	35.6	13.0	4.8	18	17.0	19.0	9.0	6.6	32.0	47.0
C4N12×8-PT1/2-S	12×8	R1/2	40.6	18.0	4.8	18	23.0	19.0	12.0	6.6	33.5	75.0
C4N12×9-PT3/8-S	12×9	R3/8	35.6	13.0	4.8	18	17.0	19.0	9.0	7.6	40.0	40.5
C4N12×9-PT1/2-S	12×9	R1/2	40.6	18.0	4.8	18	23.0	19.0	12.0	7.6	40.0	74.0

●Inch size type (Group 1)

Product number	Applicable tube outer diameter- inner diameter (inch)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross- sectional area (mm ²)	Weight (g)
C1N1/4-PT1/8-S	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-S	1/4	R1/4	30.0	12.0	4.6	15	14.0	12.0	7.0	3.4	8.5	22.0
C1N5/16-PT1/8-S	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-S	5/16	R1/4	29.8	12.0	4.6	16	14.0	14.0	7.0	4.7	16.0	24.0
C1N3/8-PT1/8-S	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-S	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-S	3/8	R3/8	31.7	13.0	4.6	17	17.0	17.0	9.0	5.7	22.5	39.0
C1N1/2-PT1/4-S	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-S	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-S	1/2	R1/2	40.8	18.0	4.6	18	23.0	19.0	12.0	8.2	45.0	72.0

90 degree elbow



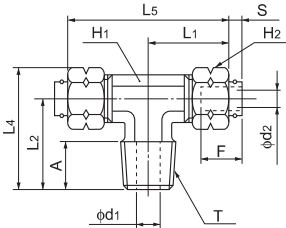
●Millimeter size type (Group 4)

Product number	Applicable tube outer diameter- inner diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross- sectional area (mm ²)	Weight (g)
L4N6×4-PT1/8-S	6×4	R1/8	20.5	18.5	26.3	25.4	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	21.0
L4N6×4-PT1/4-S	6×4	R1/4	23.0	22.0	29.8	28.9	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	32.0
L4N8×5-PT1/8-S	8×5	R1/8	22.9	21.0	29.8	29.1	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	31.0
L4N8×5-PT1/4-S	8×5	R1/4	22.9	22.0	29.8	30.1	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	32.5
L4N8×6-PT1/8-S	8×6	R1/8	22.9	21.0	29.8	29.1	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	31.0
L4N8×6-PT1/4-S	8×6	R1/4	22.9	22.0	29.8	30.1	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	32.5
L4N10×6.5-PT1/4-S	10×6.5	R1/4	27.1	25.0	35.2	34.8	13.5	4.2	17	14.0	17.0	7.0	5.2	18.0	47.0
L4N10×6.5-PT3/8-S	10×6.5	R3/8	27.1	26.0	35.2	35.8	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	50.0
L4N10×8-PT1/4-S	10×8	R1/4	27.1	25.0	35.2	34.8	13.5	4.2	17	14.0	17.0	7.0	6.7	25.0	48.0
L4N10×8-PT3/8-S	10×8	R3/8	27.1	26.0	35.2	35.8	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	51.0
L4N12×8-PT3/8-S	12×8	R3/8	27.6	26.0	35.7	37.0	13.0	4.8	18	18.0	19.0	9.0	6.6	25.0	53.0
L4N12×8-PT1/2-S	12×8	R1/2	30.1	33.0	40.9	44.0	18.0	4.8	18	14.0	19.0	10.0	6.6	30.0	90.0
L4N12×9-PT3/8-S	12×9	R3/8	27.6	26.0	35.7	37.0	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	54.0
L4N12×9-PT1/2-S	12×9	R1/2	30.6	33.0	41.4	44.0	18.0	4.8	18	14.0	19.0	10.0	7.6	33.0	91.0

●Inch size type (Group 1)

Product number	Applicable tube outer diameter- inner diameter (inch)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross- sectional area (mm ²)	Weight (g)
L1N1/4-PT1/8-S	1/4	R1/8	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-PT1/4-S	1/4	R1/4	23.0	22.0	29.8	28.9	12.0	4.6	15	12.0	12.0	7.0	3.4	8.0	28.0
L1N5/16-PT1/8-S	5/16	R1/8	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-PT1/4-S	5/16	R1/4	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-PT1/8-S	3/8	R1/8	23.7	21.0	30.6	30.8	11.0	4.6	17	12.0	17.0	5.0	5.7	15.0	35.0
L1N3/8-PT1/4-S	3/8	R1/4	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-PT3/8-S	3/8	R3/8	26.7	26.0	35.2	35.8	13.0	4.6	17	14.0	17.0	7.0	5.7	19.0	50.0
L1N1/2-PT1/4-S	1/2	R1/4	27.8	25.0	35.9	36.0	13.5	4.6	18	14.0	19.0	7.0	8.2	32.0	50.0
L1N1/2-PT3/8-S	1/2	R3/8	27.8	26.0	36.3	37.0	13.0	4.6	18	14.0	19.0	9.0	8.2	32.0	53.0
L1N1/2-PT1/2-S	1/2	R1/2	30.8	33.0	41.6	44.0	18.0	4.6	18	18.0	19.0	12.0	8.2	32.0	76.0

Tee



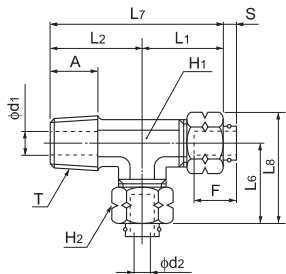
●Millimeter size type (Group 4)

Product number	Applicable tube outer diameter/inner diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
T4N6×4-PT1/8-S	6×4	R1/8	20.5	18.5	25.4	41.0	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	30.0
T4N6×4-PT1/4-S	6×4	R1/4	23.0	22.0	28.9	46.0	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	43.0
T4N8×5-PT1/8-S	8×5	R1/8	22.9	21.0	29.1	45.8	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	43.0
T4N8×5-PT1/4-S	8×5	R1/4	22.9	22.0	30.1	45.8	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	45.0
T4N8×6-PT1/8-S	8×6	R1/8	22.9	21.0	29.1	45.8	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	42.0
T4N8×6-PT1/4-S	8×6	R1/4	22.9	22.0	30.1	45.8	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	44.0
T4N10×6.5-PT1/4-S	10×6.5	R1/4	27.1	25.0	34.8	54.2	12.0	4.2	17	14.0	17.0	7.0	5.2	18.0	73.0
T4N10×6.5-PT3/8-S	10×6.5	R3/8	28.1	26.0	35.8	56.2	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	78.0
T4N10×8-PT1/4-S	10×8	R1/4	27.1	25.0	34.8	54.2	12.0	4.2	17	14.0	17.0	7.0	6.7	25.0	69.0
T4N10×8-PT3/8-S	10×8	R3/8	27.1	26.0	35.8	54.2	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	75.0
T4N12×8-PT3/8-S	12×8	R3/8	27.6	25.0	36.0	55.3	13.0	4.2	18	14.0	19.0	9.0	6.6	25.0	82.0
T4N12×9-PT3/8-S	12×9	R3/8	27.6	26.0	37.0	55.3	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	82.0

●Inch size type (Group 1)

Product number	Applicable tube outer diameter (inch)	T Thread size (R)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
T1N1/4-PT1/8-S	1/4	R1/8	20.5	18.5	25.4	41.1	11.0	4.6	15	10.0	12.0	5.0	3.4	8.0	29.0
T1N1/4-PT1/4-S	1/4	R1/4	23.0	22.0	28.9	46.1	12.0	4.6	15	12.0	12.0	7.0	3.4	8.0	42.0
T1N3/8-PT1/4-S	3/8	R1/4	23.7	22.0	31.8	47.4	12.0	4.6	17	12.0	17.0	7.0	5.7	19.0	55.0

Service tee



●Millimeter size type (Group 4)

Product number	Applicable tube outer diameter/inner diameter (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
ST4N6×4-PT1/8-S	6×4	R1/8	20.5	18.5	20.5	39.0	27.4	11.0	4.6	15	10.0	12.0	5.0	2.7	4.5	41.0
ST4N6×4-PT1/4-S	6×4	R1/4	23.0	22.0	23.0	45.0	29.9	12.0	4.6	15	12.0	12.0	7.0	2.7	4.5	30.0
ST4N8×5-PT1/8-S	8×5	R1/8	22.9	21.0	22.9	43.9	31.0	11.0	4.6	16	12.0	14.0	5.0	3.7	9.0	43.0
ST4N8×5-PT1/4-S	8×5	R1/4	22.9	22.0	22.9	44.9	31.0	12.0	4.6	16	12.0	14.0	7.0	3.7	9.0	43.0
ST4N8×6-PT1/8-S	8×6	R1/8	22.9	21.0	22.9	43.9	31.0	11.0	4.6	16	12.0	14.0	5.0	4.7	14.0	45.0
ST4N8×6-PT1/4-S	8×6	R1/4	22.9	22.0	22.9	44.9	31.0	12.0	4.6	16	12.0	14.0	7.0	4.7	15.0	46.0
ST4N10×6.5-PT1/4-S	10×6.5	R1/4	27.1	25.0	27.1	52.1	36.9	12.0	4.2	17	14.0	17.0	7.0	5.2	18.0	72.0
ST4N10×6.5-PT3/8-S	10×6.5	R3/8	27.1	26.0	27.1	53.1	36.9	13.0	4.2	17	14.0	17.0	9.0	5.2	18.0	70.0
ST4N10×8-PT1/4-S	10×8	R1/4	27.1	25.0	27.1	52.1	36.9	12.0	4.2	17	14.0	17.0	7.0	6.7	25.0	76.0
ST4N10×8-PT3/8-S	10×8	R3/8	27.1	26.0	27.1	53.1	36.9	13.0	4.2	17	14.0	17.0	9.0	6.7	25.0	113.0
ST4N12×8-PT3/8-S	12×8	R3/8	27.6	26.0	27.6	53.6	38.6	13.0	4.8	18	14.0	19.0	9.0	6.6	25.0	81.0
ST4N12×9-PT3/8-S	12×9	R3/8	27.6	26.0	27.6	53.6	38.6	13.0	4.8	18	14.0	19.0	9.0	7.6	33.0	130.0

●Inch size type (Group 1)

Product number	Applicable tube outer diameter (inch)	T Thread size (R)	L1 (mm)	L2 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d1 (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
ST1N1/4-PT1/8-S	1/4	R1/8	20.5	18.5	20.5	39.0	27.5	11.0	4.6	15	10.0	12.0	5.0	3.4	8.0	29.0

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference

QuickSeal Series Insertion type (stainless)

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/
Chemifit

Bamboo-
shoot fitting

Control switch/
Detachable series

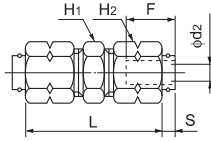
Jig/Tool/
Accessory

Technical information

Reference

Union connector

●Millimeter size type (Group 4)



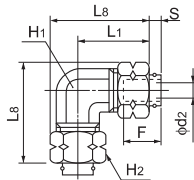
Product number	Applicable tube outer diameter-inner diameter (mm)	L (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UC4N6×4-S	6×4	33.0	4.6	15	10.0	12.0	2.7	5.0	20.0
UC4N8×5-S	8×5	32.8	4.6	16	12.0	14.0	3.7	10.0	28.0
UC4N8×6-S	8×6	32.8	4.6	16	12.0	14.0	4.7	16.0	25.0
UC4N10×6.5-S	10×6.5	36.2	4.2	17	17.0	17.0	5.2	20.5	44.0
UC4N10×8-S	10×8	36.2	4.2	17	17.0	17.0	6.7	32.0	44.0
UC4N12×8-S	12×8	37.3	4.8	18	17.0	19.0	6.6	32.0	49.0
UC4N12×9-S	12×9	37.3	4.8	18	17.0	19.0	7.6	40.0	51.0

●Inch size type (Group 1)

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

90 degree union elbow

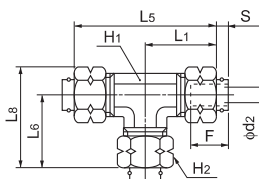
●Millimeter size type (Group 4)



Product number	Applicable tube outer diameter-inner diameter (mm)	L1 (mm)	L2 (mm)	L3 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UL4N6×4-S	6×4	20.5	27.4	27.4	4.6	15	10.0	12.0	2.7	4.0	25.0
UL4N8×5-S	8×5	22.9	31.0	31.0	4.6	16	12.0	14.0	3.7	7.5	37.0
UL4N8×6-S	8×6	22.9	31.0	31.0	4.6	16	12.0	14.0	4.7	12.5	36.0
UL4N10×6.5-S	10×6.5	27.1	36.9	36.9	4.2	17	14.0	17.0	5.2	15.5	59.0
UL4N10×8-S	10×8	27.1	36.9	36.9	4.2	17	14.0	17.0	6.7	25.0	57.0
UL4N12×8-S	12×8	27.6	38.6	38.6	4.8	18	14.0	19.0	6.6	25.0	63.0
UL4N12×9-S	12×9	27.6	38.6	38.6	4.8	18	14.0	19.0	7.6	25.0	60.0

Union tee

●Millimeter size type (Group 4)



Product number	Applicable tube outer diameter-inner diameter (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UT4N6×4-S	6×4	20.5	41.0	20.5	27.4	4.6	15	10.0	12.0	2.7	4.0	35.0		
UT4N8×5-S	8×5	22.9	45.8	22.9	31.0	4.6	16	12.0	14.0	3.7	7.5	49.0		
UT4N8×6-S	8×6	22.9	45.8	22.9	31.0	4.6	16	12.0	14.0	4.7	12.5	48.0		
UT4N10×6.5-S	10×6.5	27.1	54.2	27.1	36.9	4.2	17	14.0	17.0	5.2	15.5	82.0		
UT4N10×8-S	10×8	27.1	54.2	27.1	36.9	4.2	17	14.0	17.0	6.7	25.0	77.0		
UT4N12×8-S	12×8	27.6	55.3	27.6	38.6	4.8	18	14.0	19.0	6.6	25.0	90.0		
UT4N12×9-S	12×9	27.6	55.3	27.6	38.6	4.8	18	14.0	19.0	7.6	25.0	85.0		

●Inch size type (Group 1)

Product number	Applicable tube outer diameter (inch)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	d2 Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UT1N1/4-S	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-S	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-S	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-S	1/2	27.8	55.6	27.8	38.8	4.6	18	14.0	19.0	8.2	30.0	84.0		

*Made to order

Stainless nut

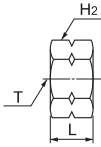


●Millimeter size type (Group 4)

Product number	Applicable tube outer diameter (mm)	T Thread size (M)	L (mm)	H ₂ Width across flat (mm)	Weight (g)
N6-S	6	M10×1.0	9.0	12.0	5.0
N8-S	8	M12×1.0	9.0	14.0	6.0
N10-S	10	M15×1.0	10.0	17.0	9.0
N12-S	12	M17×1.0	11.0	19.0	11.0

●Inch size type (Group 1)

Product number	Applicable tube outer diameter (inch)	T Thread size (M)	L (mm)	H ₂ Width across flat (mm)	Weight (g)
N1/4-S	1/4	M10×1.0	9.0	12.0	5.0
N5/16-S	5/16	M12×1.0	9.0	14.0	6.0
N3/8-S	3/8	M14×1.0	10.0	17.0	10.0
N1/2-S	1/2	M17×1.0	11.5	19.0	11.0



*The inch size type has no cut.

Nylon sleeve

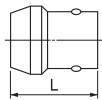


●Millimeter size type (Color: milky white)

Product number	Applicable tube outer diameter (mm)	L (mm)
SN6	6	11.0
SN8	8	11.0
SN10	10	12.0
SN12	12	13.0

●Inch size type (Color: black)

Product number	Applicable tube outer diameter (inch)	L (mm)
SN1/4	1/4	11.0
SN5/16	5/16	11.0
SN3/8	3/8	12.0
SN1/2	1/2	13.0



Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/Chemifit

Bamboo-shoot fitting

Control switch/Detachable series

Jig/Tool/Accessory

Technical information

Reference

QuickSeal Series

Insertless type

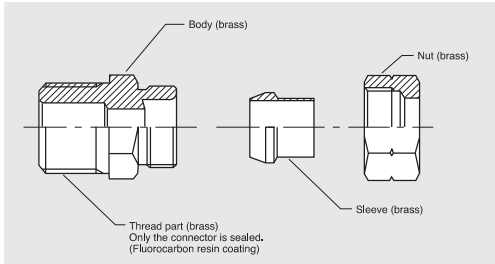
Screw-in type for general pneumatic piping

Features

- **Screw-in type**
Consisting of three parts: fitting body, nut and sleeve
- **Large flow volume**
Large effective cross sectional area due to lack of an insertion part.
- **Only the connector is sealed.**
Sealing tape is not required.

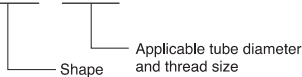


Cross-sectional structure diagram



Product number example

4A01 - 2420



Applicable tube

Nylon tube



N2•••P,15
N5•••P,16
N1•••P,17

Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	-40°C~+100°C

See "Combination List of Tube and Fitting" on page 8.

Pressure condition

Maximum working pressure:1.0MPa

Negative pressure performance:

-99.975kPa

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 the nut periodically. If the nut cannot be tightened further, cut the tube end and insert the tube again with a new sleeve.

Caution Do not bend the pipe sharply near the tube insertion port (sleeve end) of the fitting. Keep the tube straight for twice as long as the tube diameter from the insertion port.

See page34 for the common handling instructions for tube fittings.

Reference

Instruction manual.....P.180

Effective cross-sectional area.....P.176

Negative-pressure performance list·P.177

QuickSeal Series Insertless type (brass)

Shape list

Connector
4A01



P.95

90 degree elbow
4A02



P.95

Tee
4A03



P.96

Service tee
4A04



P.96

Union tee
4A05



P.96

Swivel nut internal connector
4A06



P.96

Union connector
4A07



P.97

90 degree union elbow
4A08



P.97

Brass nut
N



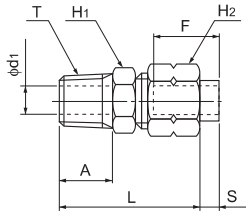
P.97

Brass sleeve
MSN



P.97

Connector

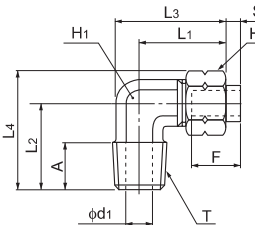


●Millimeter size type

Product number	Applicable tube outer diameter (mm)	T Thread size (R)	L (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
4A01-2402	4	R1/8	27.9	11.0	2.7	14	10.0	10.0	5.0	2.0	3.0	13.0
4A01-2602	6	R1/8	27.9	11.0	2.6	14	10.0	12.0	5.0	4.0	10.0	15.0
4A01-2604	6	R1/4	29.9	12.0	2.6	14	14.0	12.0	7.0	4.0	10.0	23.0
4A01-2802	8	R1/8	27.8	11.0	2.6	15	12.0	14.0	5.0	5.0	18.0	17.0
4A01-2804	8	R1/4	29.8	12.0	2.6	15	14.0	14.0	7.0	6.0	25.0	24.0
4A01-3004	10	R1/4	31.0	12.0	2.3	18	17.0	17.0	7.5	7.5	39.0	31.0
4A01-3006	10	R3/8	32.0	13.0	2.3	18	17.0	17.0	9.0	7.5	39.0	38.0
4A01-3206	12	R3/8	32.5	13.0	3.1	19	17.0	19.0	9.0	8.0	45.0	40.0
4A01-3208	12	R1/2	40.5	18.0	3.1	19	24.0	19.0	12.0	8.0	45.0	71.0

☞ Only the connector is sealed.

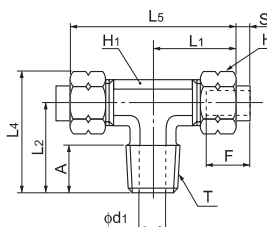
90 degree elbow



●Millimeter size type

Product number	Applicable tube outer diameter (mm)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	L ₄ (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
4A02-2402	4	R1/8	20.4	18.5	26.2	24.3	11.0	2.7	14	10.0	10.0	5.0	2.0	3.0	19.0
4A02-2602	6	R1/8	20.4	18.5	26.2	25.4	11.0	2.6	14	10.0	12.0	5.0	4.0	9.0	20.0
4A02-2604	6	R1/4	22.9	22.0	29.9	28.9	12.0	2.6	14	12.0	12.0	7.0	4.0	10.0	30.0
4A02-2802	8	R1/8	22.8	21.0	29.8	29.1	11.0	2.6	15	12.0	14.0	5.0	5.0	16.0	29.0
4A02-2804	8	R1/4	22.8	22.0	29.8	30.1	12.0	2.6	15	12.0	14.0	7.0	6.0	22.0	32.0
4A02-3004	10	R1/4	27.0	25.0	35.1	34.8	13.5	2.3	18	14.0	17.0	7.0	7.0	30.0	46.0
4A02-3006	10	R3/8	27.0	26.0	35.5	35.8	13.0	2.3	18	14.0	17.0	9.0	7.5	35.0	82.0
4A02-3206	12	R3/8	27.5	26.0	36.0	37.0	13.0	3.1	19	14.0	19.0	9.0	8.0	40.0	53.0
4A02-3208	12	R1/2	30.0	33.0	40.8	44.0	18.0	3.1	19	14.0	19.0	10.0	8.0	40.0	90.0

Tee



●Millimeter size type

Product number	Applicable tube outer diameter (mm)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₄ (mm)	L ₅ (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
4A03-2402	4	R1/8	20.4	18.5	24.3	40.8	11.0	2.7	14	10.0	10.0	5.0	2.0	3.0	27.0
4A03-2602	6	R1/8	20.4	18.5	25.4	40.8	11.0	2.6	14	10.0	12.0	5.0	4.0	9.0	29.0
4A03-2604	6	R1/4	22.9	22.0	28.9	45.8	12.0	2.6	14	12.0	12.0	7.0	4.0	10.0	43.0
4A03-2802	8	R1/8	22.8	21.0	29.1	45.7	11.0	2.6	15	12.0	14.0	5.0	5.0	16.0	42.0
4A03-2804	8	R1/4	22.8	22.0	30.1	45.7	12.0	2.6	15	12.0	14.0	7.0	6.0	22.0	43.0
4A03-3004	10	R1/4	27.0	25.0	34.8	53.9	12.0	2.3	18	14.0	17.0	7.0	7.0	30.0	69.0
4A03-3006	10	R3/8	27.0	26.0	35.8	53.9	13.0	2.3	18	14.0	17.0	9.0	7.5	35.0	73.0
4A03-3206	12	R3/8	27.5	26.0	37.0	54.9	13.0	3.1	19	14.0	19.0	9.0	8.0	40.0	79.0
4A03-3208	12	R1/2	30.5	33.0	44.0	60.9	18.0	3.1	19	18.0	19.0	12.0	8.0	40.0	125.0

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemfit

Bamboo-shoot fitting

Control switch/ Detachable series

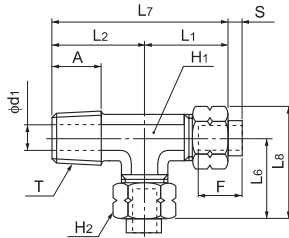
Jig/Tool/ Accessory

Technical information

Reference

Service tee

●Millimeter size type

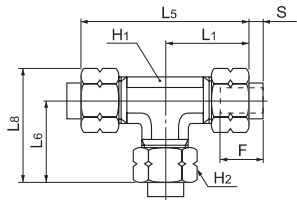


Product number	Applicable tube outer diameter (mm)	T Thread size (R)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	L ₄ (mm)	L ₅ (mm)	L ₆ (mm)	L ₇ (mm)	L ₈ (mm)	A (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
4A04-2402	4	R1/8	20.4	18.5	20.4	38.9	26.2	11.0	2.7	14	10.0	2.7	14	10.0	10.0	5.0	2.0	3.0	27.0
4A04-2602	6	R1/8	20.4	18.5	20.4	38.9	27.4	11.0	2.6	14	10.0	2.6	14	10.0	12.0	5.0	4.0	9.0	29.0
4A04-2604	6	R1/4	22.9	22.0	22.9	44.9	29.9	12.0	2.6	14	12.0	2.6	14	12.0	12.0	7.0	4.0	10.0	37.0
4A04-2802	8	R1/8	22.8	21.0	22.8	43.8	30.9	11.0	2.6	15	12.0	2.6	15	12.0	14.0	5.0	5.0	16.0	41.0
4A04-2804	8	R1/4	22.8	22.0	22.8	44.8	30.9	12.0	2.6	15	12.0	2.6	15	12.0	14.0	7.0	6.0	22.0	43.0
4A04-3004	10	R1/4	27.0	25.0	27.0	52.0	36.8	12.0	2.3	18	14.0	2.3	18	14.0	17.0	7.0	7.0	30.0	70.0
4A04-3006	10	R3/8	27.0	26.0	27.0	53.0	36.8	13.0	2.3	18	14.0	2.3	18	14.0	17.0	9.0	7.5	35.0	73.0
4A04-3206	12	R3/8	27.5	26.0	27.5	53.5	38.4	13.0	3.1	19	14.0	3.1	19	14.0	19.0	9.0	8.0	40.0	80.0
4A04-3208	12	R1/2	30.5	35.5	30.5	66.0	41.4	18.0	3.1	19	18.0	3.1	19	18.0	19.0	12.0	8.0	40.0	127.0

*Made to order

Union tee

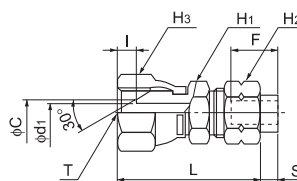
●Millimeter size type



Product number	Applicable tube outer diameter (mm)	L ₁ (mm)	L ₅ (mm)	L ₆ (mm)	L ₈ (mm)	S (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
4A05-2400	4	20.4	40.8	20.4	26.2	2.7	14	10.0	10.0	2.0	3.0	30.0
4A05-2600	6	20.4	40.8	20.4	27.4	2.6	14	10.0	12.0	4.0	8.0	34.0
4A05-2800	8	22.8	45.7	22.8	30.9	2.6	15	12.0	14.0	6.0	20.0	45.0
4A05-3000	10	27.0	53.9	27.0	36.8	2.3	18	14.0	17.0	7.5	31.0	74.0
4A05-3200	12	27.5	54.9	27.5	38.4	3.1	19	14.0	19.0	8.0	37.0	85.0

Swivel nut internal connector

●Millimeter size type

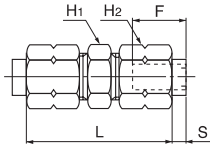


Product number	Applicable tube outer diameter (mm)	T Thread size (G)	L (mm)	S (mm)	I (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	H ₃ Width across flat (mm)	C (mm)	d ₁ (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
4A06-2402	4	G1/8	32.9	2.7	4.0	14	12.0	10.0	14.0	5.0	3.0	3.0	3.5	24.0
4A06-2602	6	G1/8	32.9	2.6	4.0	14	12.0	12.0	14.0	5.0	3.0	3.0	6.5	25.0
4A06-2604	6	G1/4	34.6	2.6	5.7	14	17.0	12.0	19.0	7.0	5.0	5.0	10.0	43.0
4A06-2804	8	G1/4	34.5	2.6	5.7	18	17.0	14.0	19.0	7.0	5.0	5.0	18.0	45.0
4A06-3006	10	G3/8	40.8	2.3	6.8	18	19.0	17.0	22.0	10.0	8.0	8.0	42.0	75.0
4A06-3206	12	G3/8	41.3	3.1	6.8	19	19.0	19.0	22.0	10.0	8.0	8.0	45.0	67.0
4A06-3208	12	G1/2	46.0	3.1	9.5	19	22.0	19.0	27.0	14.0	10.0	10.0	54.0	115.0

*Made to order

Union connector

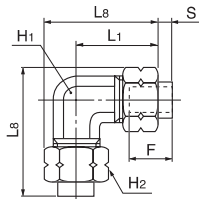
●Millimeter size type



Product number	Applicable tube outer diameter (mm)	L (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
4A07-2400	4	32.8	2.7	14	8.0	10.0	2.0	3.0	15.0
4A07-2600	6	32.8	2.6	14	10.0	12.0	4.0	10.0	20.0
4A07-2800	8	32.7	2.6	15	14.0	14.0	6.0	25.0	27.0
4A07-3000	10	35.9	2.3	18	17.0	17.0	7.5	39.0	42.0
4A07-3200	12	36.9	3.1	19	17.0	19.0	8.0	45.0	48.0

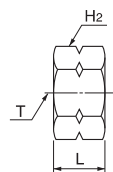
90 degree union elbow

●Millimeter size type



Product number	Applicable tube outer diameter (mm)	L1 (mm)	L2 (mm)	S (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
4A08-2400	4	20.4	26.2	2.7	14	10.0	10.0	2.0	2.0	22.0
4A08-2600	6	20.4	27.4	2.6	14	10.0	12.0	4.0	8.0	25.0
4A08-2800	8	22.8	30.9	2.6	15	12.0	14.0	6.0	20.0	33.0
4A08-3000	10	27.0	36.8	2.3	18	14.0	17.0	7.5	31.0	52.0
4A08-3200	12	27.5	38.4	3.1	19	14.0	19.0	8.0	37.0	59.0

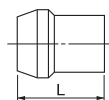
Brass nut



●Millimeter size type

Product number	Applicable tube outer diameter (mm)	T Thread size (M)	L (mm)	H2 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

Brass sleeve



●Millimeter size type

Product number	Applicable tube outer diameter (mm)	L (mm)
MSN4	4	9.0
MSN6	6	9.0
MSN8	8	9.0
MSN10	10	10.0
MSN12	12	11.3

Insertless type requires a brass sleeve.

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference

QuickSeal Series

DK tube dedicated type

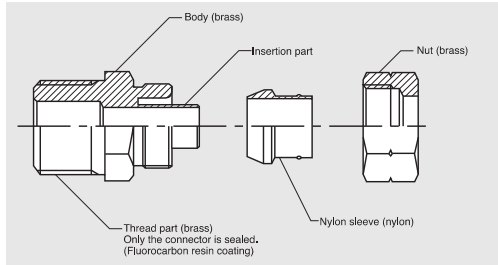
Screw-in type fitting dedicated for DK tube

Features

- Screw-in type
Fitting only for DK tube, consisting of three parts: fitting body, nut and sleeve.
- Only the connector is sealed.
Sealing tape is not required.



Cross-sectional structure diagram



Product number example

DC 6 - PT1/8

Thread size
Applicable tube outer diameter
Shape

Applicable tube

Shape-keeping DK tube



P.24

Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	-40°C~+60°C

Pressure condition

Maximum working pressure: 1.0MPa
Negative pressure performance:
-101.294kPa

Handling instructions

- ⚠ **Caution** This is dedicated for DK tube. Cannot be connected to other tubes.
- ⚠ **Caution** For use at a high temperature within the working temperature range, tighten the nut periodically. If the nut cannot be tightened further, cut the tube end and insert the tube again with a new sleeve.
- ⚠ **Caution** Do not bend the pipe sharply near the tube insertion port (sleeve end) of the fitting. Keep the tube straight for twice as long as the tube diameter from the insertion port.

📖 See page34 for the common handling instructions for tube fittings.

Reference

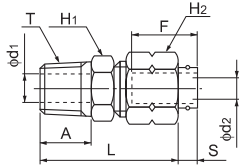
Instruction manual.....P.180
Effective cross-sectional area.....P.176

DK tube dedicated type

Shape list

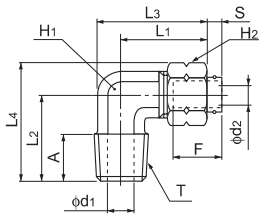
Connector DC  P.99	90 degree elbow DL  P.99	Tee DT  P.99	Union connector UDC  P.100	Union tee UDT  P.100
Panel touch connector DUT  (Nickel plated) P.100	Panel touch connector for copper pipe DUP  (Nickel plated) P.101	Brass nut N  P.101	Nylon sleeve SN  P.101	

Connector



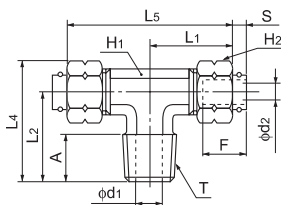
Product number	Applicable DK tube size (mm)	T Thread size (R)	L (mm)	A (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	S (mm)	d1 (mm)	d2 (mm)	Effective cross-sectional area (mm ²)	Weight (g)
DC6-PT1/8	6	R1/8	28.0	11.0	15	10.0	12.0	4.6	5.0	2.8	6.0	14.5
DC6-PT1/4	6	R1/4	30.0	12.0	15	14.0	12.0	4.6	7.0	2.8	6.0	22.0
DC10-PT1/8	10	R1/8	30.1	11.0	17	17.0	17.0	4.2	5.0	5.7	18.0	28.0
DC10-PT1/4	10	R1/4	31.1	12.0	17	17.0	17.0	4.2	7.0	5.7	23.0	32.0
DC10-PT3/8	10	R3/8	32.1	13.0	17	17.0	17.0	4.2	9.0	5.7	23.0	38.0

90 degree elbow



Product number	Applicable DK tube size (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	A (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	S (mm)	d1 (mm)	d2 (mm)	Effective cross-sectional area (mm ²)	Weight (g)
DL6-PT1/8	6	R1/8	20.5	18.5	26.2	25.4	11.0	15	10.0	12.0	4.6	5.0	2.8	5.0	21.0
DL6-PT1/4	6	R1/4	23.0	22.0	29.9	28.9	12.0	15	12.0	12.0	4.6	7.0	2.8	5.0	31.0
DL10-PT1/8	10	R1/8	27.1	22.0	35.2	31.8	11.0	17	14.0	17.0	4.2	5.0	5.7	16.0	42.0
DL10-PT1/4	10	R1/4	27.1	25.0	35.2	34.8	13.5	17	14.0	17.0	4.2	7.0	5.7	22.0	50.0
DL10-PT3/8	10	R3/8	27.1	26.0	35.7	35.8	13.0	17	14.0	17.0	4.2	9.0	5.7	22.0	53.0

Tee



Product number	Applicable DK tube size (mm)	T Thread size (R)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	A (mm)	F Tube insertion length (mm)	H1 Width across flat (mm)	H2 Width across flat (mm)	S (mm)	d1 (mm)	d2 (mm)	Effective cross-sectional area (mm ²)	Weight (g)
DT6-PT1/8	6	R1/8	20.5	18.5	25.4	40.9	11.0	15	10.0	12.0	4.6	5.0	2.8	5.0	30.0
DT6-PT1/4	6	R1/4	23.0	22.0	28.9	45.9	12.0	15	12.0	12.0	4.6	7.0	2.8	5.0	43.0
DT10-PT1/4	10	R1/4	27.1	25.0	34.8	54.2	12.0	17	14.0	17.0	4.2	7.0	5.7	22.0	71.0
DT10-PT3/8	10	R3/8	27.1	26.0	35.8	54.2	13.0	17	14.0	17.0	4.2	9.0	5.7	22.0	71.0

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/
Chemifit

Bamboo-
shoot fitting

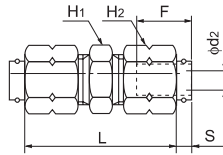
Control switch/
Detachable series

Jig/Tool/
Accessory

Technical information

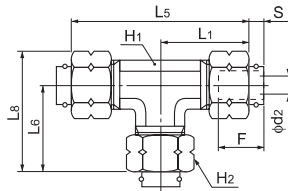
Reference

Union connector



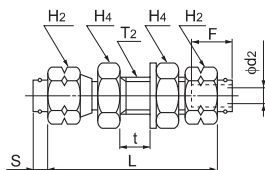
Product number	Applicable DK tube size (mm)	L (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	S (mm)	d ₂ (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UDC6	6	32.9	15	10.0	12.0	4.6	2.8	6.0	20.0
UDC10	10	36.2	17	15.0	17.0	4.2	5.7	23.0	39.0

Union tee



Product number	Applicable DK tube size (mm)	L ₁ (mm)	L ₅ (mm)	L ₆ (mm)	L ₈ (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	S (mm)	d ₂ (mm)	Effective cross-sectional area (mm ²)	Weight (g)
UDT6	6	20.5	40.9	20.5	27.4	15	10.0	12.0	4.6	2.8	4.0	35.0
UDT10	10	27.1	54.2	27.1	36.9	17	14.0	17.0	4.2	5.7	18.5	81.5

Panel touch connector (nickel plated)

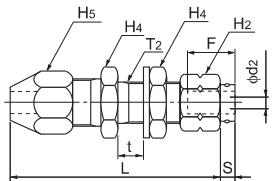


Product number	Applicable DK tube size (mm)	L (mm)	F Tube insertion length (mm)	t Max. panel thickness (mm)	H ₂ Width across flat (mm)	H ₄ Width across flat (mm)	S (mm)	d ₂ (mm)	T ₂ Recommended panel hole diameter (mm)	Washer outer diameter (mm)	Washer thickness (mm)	Effective cross-sectional area (mm ²)	Weight (g)
DUT6	6	44.9	15	10	12.0	17.0	4.6	2.8	11	18	2.0	5.5	45.0
DUT10	10	51.2	17	7.1	17.0	24.0	4.2	5.7	16	28	3.0	21.5	104.0

Panel touch connector for copper pipe (nickel plated)



Product number	Applicable DK tube size (mm)	Applicable copper pipe (mm)	L (mm)	F Tube insertion length (mm)	t Max. panel thickness (mm)	H ₂ Width across flat (mm)	H ₄ Width across flat (mm)	H ₅ Width across flat (mm)	S (mm)	d ₂ (mm)	T ₂ Recommended panel hole diameter (mm)	Washer outer diameter (mm)	Washer thickness (mm)	Effective cross-sectional area (mm ²)	Weight (g)
DUP6	6	6.0	51.0	15	10.0	12.0	17.0	14.0	4.6	2.8	11	18	2.0	5.5	49.0
DUP10	10	10.0	63.6	17	7.1	17.0	24.0	17.0	4.2	5.7	16	28	3.0	21.5	133.0

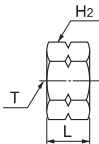


*Fitting part for connecting DK tube and copper pipe by panel touch method.

Brass nut



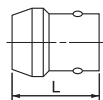
Product number	Applicable DK tube size (mm)	T Thread size (mm)	L (mm)	H ₂ (mm)	Weight (g)
N6	6	M10×1	9.0	12.0	5.0
N10	10	M15×1	10.0	17.0	9.0



Nylon sleeve



Product number	Applicable DK tube size (mm)	L (mm)
SN6	6	11.0
SN10	10	12.0



Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference

QuickSeal Series

Nylon coil tube dedicated type

Screw-in type fitting dedicated for nylon coil tube

Features

- Screw-in type
Dedicated use for nylon coil tube. Consisting of three parts: fitting body, nut and sleeve.



Product number example

S1/4 - M1/4

Thread size
Product number of applicable nylon coil tube

Applicable tube

Nylon Coil Tube



P.32

Reference

Instruction manual.....P.180
Effective cross-sectional area.....P.176

Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	-40°C~+100°C

Pressure condition

Maximum working pressure:1.2MPa
Negative pressure performance:
-101.294kPa

Handling instructions

⚠ **Caution** Dedicated for nylon coil tube. Cannot be used for connecting other types of tube.

⚠ **Caution** For use at a high temperature within the working temperature range, tighten the nut periodically. If the nut cannot be tightened further, cut the tube end and insert the tube again with a new sleeve.

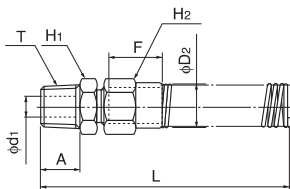
👉 See page34 for the common handling instructions for tube fittings.

Connector



Product number	Applicable nylon coil tube outer diameter	T Thread size (R)	L (mm)	A (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	d ₁ (mm)	D ₂ (mm)	Min. inner diameter (mm)	Effective cross-sectional area (mm ²)	Weight (g)
S3/16-M1/8	S3/16	R1/8	115.2	11.0	16	10.0	12.0	5.0	8.5	3.4	8.5	24.0
S1/4-M1/8	S1/4	R1/8	114.3	9.0	18	12.0	14.0	5.4	11.2	5.4	22.0	31.0
S1/4-M1/4	S1/4	R1/4	118.3	12.0	18	14.0	14.0	7.0	11.2	5.4	22.0	36.0
S3/8-M3/8	S3/8	R3/8	120.2	13.0	22	17.0	22.0	9.0	15.6	8.2	50.0	72.0
S1/2-M3/8	S1/2	R3/8	178.5	13.0	29	24.0	27.0	10.2	19.8	10.2	78.0	139.0
S1/2-M1/2	S1/2	R1/2	182.5	17.0	29	24.0	27.0	12.0	19.8	10.2	80.0	160.0
S3/4-M3/4	S3/4	R3/4	—	19.0	31	32.0	35.0	18.0	—	18.0	231.0	—

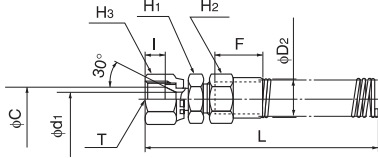
👉 S3/4 has no spring.



ES swivel nut internal connector



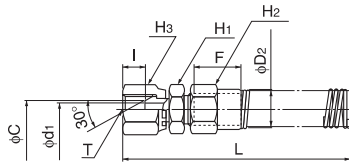
Product number	Applicable nylon coil tube outer diameter	T Thread size (G)	L (mm)	I (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	H ₃ Width across flat (mm)	C (mm)	d ₁ (mm)	D ₂ (mm)	Effective cross-sectional area (mm ²)	Weight (g)
S1/4-ES1/4	S1/4	G1/4	123.3	8.5	18	14.0	14.0	19.0	9.0	5.0	11.2	18.5	53.0
S3/8-ES3/8	S3/8	G3/8	129.0	10.0	22	19.0	22.0	22.0	13.0	8.0	15.6	46.5	97.0
S1/2-ES1/2	S1/2	G1/2	189.0	13.0	29	24.0	27.0	27.0	16.0	10.2	19.8	80.0	186.0



FS swivel nut internal connector



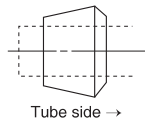
Product number	Applicable nylon coil tube outer diameter	T Thread size (G)	L (mm)	I (mm)	F Tube insertion length (mm)	H ₁ Width across flat (mm)	H ₂ Width across flat (mm)	H ₃ Width across flat (mm)	C (mm)	d ₁ (mm)	D ₂ (mm)	Effective cross-sectional area (mm ²)	Weight (g)
S1/4-FS1/4	S1/4	G1/4	123.3	5.7	18	14.0	14.0	19.0	7.0	5.0	11.2	18.5	55.0
S3/8-FS3/8	S3/8	G3/8	129.0	6.8	22	19.0	22.0	22.0	10.0	8.0	15.6	46.5	102.0
S1/2-FS1/2	S1/2	G1/2	189.0	9.5	29	24.0	27.0	27.0	14.0	10.2	19.8	80.0	193.0



Nylon sleeve (dedicated for nylon coil tube)



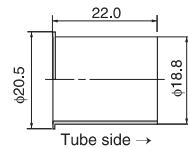
(Red)



Caution
Pay attention to the directions when attaching the sleeve.

Product number	Applicable nylon coil tube outer diameter
SS3/16	S3/16
SS1/4	S1/4
SS3/8	S3/8
SS1/2	S1/2
SS3/4	S3/4

Insertion part for S3/4



Product number	Applicable nylon coil tube outer diameter
S3/4	S3/4

Tube

Clean tube

Processed tube

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference