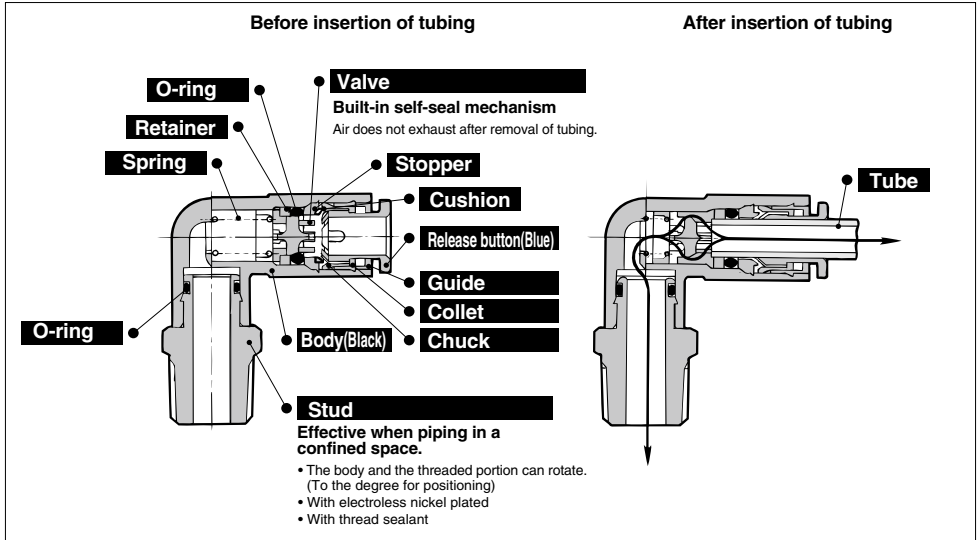


Self-seal Fittings KC Series

RoHS



One-touch fitting (built-in self-seal mechanism) to prevent air exhaust when removing tube.

Best for multiple use areas when pressure cannot be shut down.

10 types are available.

Brass parts are electroless nickel plated.

Sealant is standard.



Applicable Tubing

Tubing material	Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø4, ø6, ø8, ø10, ø12

Specifications

Fluid		Air
Maximum operating pressure		1 MPa
Proof pressure		3 MPa
Ambient and fluid temperature		-5 to 60°C (No freezing)
Thread	Mounting section	JIS B 0203 (Taper thread for piping) JIS B 0205 (Metric fine thread)
	Nut section	JIS B 0205 (Metric fine thread)
Seal on the threads (Standard)		With thread seal
Brass parts surface treatment (Standard)		Electroless nickel plated

Principal Parts Material

Body	C3604, PBT
Stud	C3604 (Thread portion)
Chuck, Spring	Stainless steel 304
Guide	Stainless steel 304, PBT
Collet, Release button	POM
Valve, Retainer	POM
Stopper	C3604, POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR

KQ2

KQB2

KS
KX

KM

KF

M

H/DL
L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA

KQG2

KG

KFG2

MS

KKA

KP

LQ

MQR

T

IDK

KC Series

Model

Male connector

KCH P. 209



Use to pipe in the same direction from female thread.

Straight union

KCH P. 211



Use to connect tubes in the same direction. One of two ports has a self-seal function.

Male elbow

KCL P. 209



Use to pipe at right angles to female thread.

Straight plug for frequent use

KCH P. 211



It can save tube cutting labor in the case of frequent tube installation and removal. Use to connect a self-seal fitting and a tube in the same direction.

Union tee

KCT P. 209



Use to connect tubes in both 90° directions.

Elbow plug for frequent use

KCL P. 211



It can save tube cutting labor in the case of frequent tube installation and removal. Use to connect a self-seal fitting and a tube at the right angles to a self-seal fitting.

Union "Y"

KCU P. 210



Use to branch line in the same direction. 2 branched ports has a self-seal function.

Check adaptor

KCJ P. 210



Use to add the self-seal mechanism to the usual One-touch fittings, KQ series.

Bulkhead union

KCE P. 210



Use to connect tubes through a panel. One of two ports has a self-seal function.

Bulkhead connector

KCE P. 210



Use to connect male thread and tube through a panel.

Male Connector: KCH

<M5>



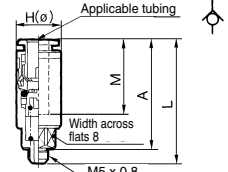
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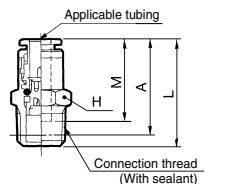
Applicable tubing O.D. (mm)	Connection thread R M	Model	H (width across flats)	L	A*	M	Effective area (mm ²)		Weight (g)
							Nylon	Urethane	
4	M5 x 0.8	KCH04-M5	9.8	30.8	27.3	18	2.1	2.1	8
	1/8	KCH04-01S	10	26.1	22.1	18	2.6	2.6	
6	M5 x 0.8	KCH06-M5	11.8	32.4	28.9	19.5	2.4	2.4	10
	1/8	KCH06-01S	12	37.4	33.4	19	6.8	6.8	
	1/4	KCH06-02S	14	28.9	22.9	19	6.8	6.8	
8	1/8	KCH08-01S	14	42.4	38.4	21.5	16.2	13.1	20
	1/4	KCH08-02S	14	45.7	39.7	21.5	16.2	13.1	
	3/8	KCH08-03S	17	34	27.5	24	25.6	20.4	
10	1/4	KCH10-02S	17	50.5	44.5	24	25.6	20.4	34
	3/8	KCH10-03S	17	51.5	45	24	25.6	20.4	
	3/8	KCH12-03S	19	54.2	47.7	25.5	35.4	30.4	
12	1/2	KCH12-04S	22	41.6	33.6	25.5	35.4	30.4	41

* Reference dimensions after R thread installation.

<M5>



<R>

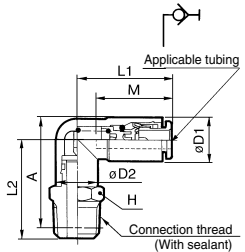


Male Elbow: KCL



Applicable tubing O.D. (mm)	Connection thread R M	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
4	M5 x 0.8	KCL04-M5	8	10.4	8	25.3	16.7	18.4	18	1.9	1.9	6
	1/8	KCL04-01S	10				22.1	24.2		2.3	2.3	
6	M5 x 0.8	KCL06-M5	8	12.8	12	28	24.2	27.5	19	6.2	6.2	13
	1/8	KCL06-01S	12				28.6	29.5		2.2	2.2	
	1/4	KCL06-02S	14				26.2	27.5		6.2	6.2	
8	1/8	KCL08-01S	14	15.2	14	34.1	26.2	30.7	21.5	13.0	10.5	24
	1/4	KCL08-02S	17				30.6	32.7		10.5	24	
	3/8	KCL08-03S	17				30	34.2		10.5	24	
10	1/4	KCL10-02S	17	18.5	17	38	33.4	37.2	24	19.5	16.5	29
	3/8	KCL10-03S	17				34.8	38.7		16.5	29	
	3/8	KCL12-03S	22				39.2	44.3		25.5	24.8	
12	1/2	KCL12-04S	22	20.9	20.9	40.7	42.3	45.7	25.5	24.8	21.3	81

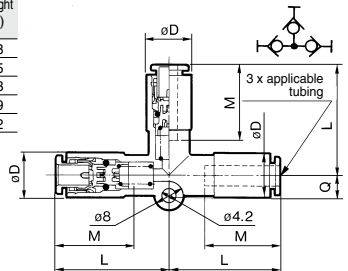
* Reference dimensions after R thread installation.



Union Tee: KCT



Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Nylon	Urethane	
4	KCT04-00	10.4	28.6	5.3	18	2.8	2.8	8
6	KCT06-00	12.8	32.7	6.1	19	7.6	7.6	15
8	KCT08-00	15.2	39.2	7.1	21.5	13.7	11.1	23
10	KCT10-00	18.5	45.5	7.9	24	21.1	19.0	39
12	KCT12-00	20.9	49.2	8.6	25.5	28.3	24.3	52



[Click here for applicable color caps.](#)

KQ2

KQB2

KS
KX

KM

KF

M

H/DL
L/L

KC

KK

KK130

DM

KDM

KB

KR

KA

KQG2

KG

KFG2

MS

KKA

KP

LQ

MQR

T

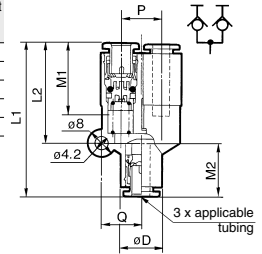
IDK

KC Series

Union "Y": KCU



Applicable tubing O.D. (mm)	Model	øD	L1	L2	P	Q	M1	M2	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
4	KCU04-00	10.4	43.1	27.3	10.4	10.6	18	16	3.7	3.7	8
6	KCU06-00	12.8	48	31.2	12.8	12.5	19	17	10.0	10.0	14
8	KCU08-00	15.2	57.6	38.9	15.2	14.7	21.5	18.5	21.7	15.1	22
10	KCU10-00	18.5	65.2	44.9	18.5	17.1	24	21	33.3	25.6	37
12	KCU12-00	20.9	70.1	48.8	20.9	19.1	25.5	22	48.9	38.7	49



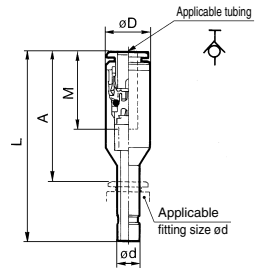
Check Adaptor: KCJ



Applicable tubing O.D. (mm)	Model	Applicable fitting size ød	øD	L	A	M	Effective area (mm ²)		Weight (g)
							Nylon	Urethane	
4	KCJ04-99	4	9.8	49.5	33.5	18	2.6	2.6	9
6	KCJ06-99	6	11.8	54	37	19	6.8	6.8	13
8	KCJ08-99	8	14	61	42.5	21.5	16.2	13.1	20
10	KCJ10-99	10	17	70.4	49.4	24	25.6	20.4	33
12	KCJ12-99	12	19	74.4	52.4	25.5	35.4	30.4	43

Connecting products with metal rods

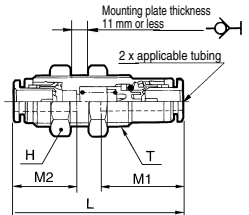
Products with metal rods cannot be connected to Series KQ2 One-touch fittings. If connected, the metal rod cannot be retained by the chuck of the One-touch fitting and products with metal rods may project during pressurization, causing serious personal injury or accident.



Bulkhead Union: KCE



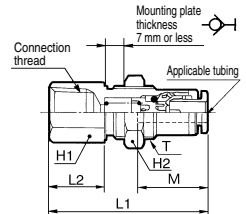
Applicable tubing O.D. (mm)	Model	T (M)	H (width across flats)	L	Mounting hole	M1	M2	Effective area (mm ²)		Weight (g)
								Nylon	Urethane	
4	KCE04-00	M12 x 1	14	42	13	18	16	2.6	2.6	21
6	KCE06-00	M14 x 1	17	45.5	15	19	17	6.8	6.8	30
8	KCE08-00	M16 x 1	19	52.5	17	21.5	18.5	16.2	13.1	39
10	KCE10-00	M20 x 1	24	59.5	21	24	21	25.6	20.4	84
12	KCE12-00	M22 x 1	27	63.2	23	25.5	22	35.4	30.4	115



Bulkhead Connector: KCE



Applicable tubing O.D. (mm)	Connection thread Rc	Model	T (M)	H1 (width across flats)	H2 (width across flats)	L1	L2	Mounting hole	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
4	1/4	KCE04-02	M12 x 1	17	14	40.5	14.7	13	18	2.6	2.6	32
6	1/4	KCE06-02	M14 x 1	17	17	42.7	14.7	15	19	6.8	6.8	36
8	3/8	KCE08-03	M16 x 1	19	19	49.4	15	17	21.5	16.2	13.1	42
10	3/8	KCE10-03	M20 x 1	22	24	53.9	14.2	21	24	25.6	20.4	79
12	3/8	KCE12-03	M22 x 1	24	27	56.1	13.7	23	25.5	35.4	30.4	105

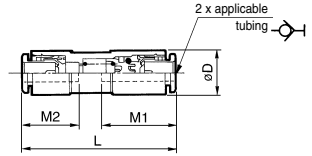


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Straight Union: KCH



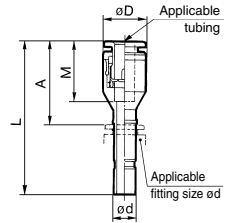
Applicable tubing O.D. (mm)	Model	øD	L	M1	M2	Effective area (mm ²)		Weight (g)
						Nylon	Urethane	
4	KCH04-00	10.4	42.1	18	16	2.6	2.6	5
6	KCH06-00	12.8	45.8	19	17	6.8	6.8	7
8	KCH08-00	15.2	52.8	21.5	18.5	16.2	13.1	10
10	KCH10-00	18.5	59.8	24	21	25.6	20.4	18
12	KCH12-00	20.9	63.5	25.5	22	35.4	30.4	24



Straight Plug for Frequent Use:KCH



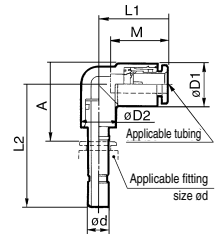
Applicable tubing O.D. (mm)	Model	Applicable fitting size øD	øD	L	A	M	Effective area (mm ²)		Weight (g)
							Nylon	Urethane	
4	KCH04-99	4	9.8	40.6	22.6	16	5.6	4	5
6	KCH06-99	6	11.8	43.1	24.1	17	13.1	10.4	8
8	KCH08-99	8	14	46.7	25.2	18.5	26.1	18.0	11
10	KCH10-99	10	17	52.6	28.6	21	41.5	29.5	18
12	KCH12-99	12	19	54.9	29.4	22	58.3	46.1	24



Elbow Plug for Frequent Use: KCL



Applicable tubing O.D. (mm)	Model	Applicable fitting size ød	øD1	øD2	L1	L2	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
4	KCL04-99	4	10.4	10	18	34.3	22.6	16	4.2	4.2	7
6	KCL06-99	6	12.8	10	20	36.5	24.1	17	11.4	9.0	8
8	KCL08-99	8	15.2	12	23	40.3	25.2	18.5	21.6	14.9	12
10	KCL10-99	10	18.5	17	26.5	44.3	28.6	21	35.2	25.0	25
12	KCL12-99	12	20.9	17	28.5	46.8	29.4	22	50.2	39.7	30



[Click here for applicable color caps.](#)

- KQ2
- KQB2
- KS
- KX
- KM
- KF
- M
- H/DL
- L/LL
- KC**
- KK
- KK130
- DM
- KDM
- KB
- KR
- KA
- KQG2
- KG
- KFG2
- MS
- KKA
- KP
- LQ
- MQR
- T
- IDK