

One-touch Fittings

Series KQ2/KQ

■ Applicable tubing diameter: **Metric Size**

■ Connecting thread: **M, R, Rc**

KQ2/White body



KQ/Black body



Applicable Tubing

Tubing material	Nylon, Soft Nylon, Polyurethane
Tubing outside O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16

Color

Series	Body	Release button
Series KQ2	White	Light grey
Series KQ	Black	Blue

Specifications

Fluid	Air, Water ^{Note 1)}	
Max. operating pressure	1.0MPa	
Operating vacuum pressure	-100kPa	
Proof pressure	3.0MPa	
Ambient and fluid temperature	-5 to 60°C, In case of water: 0 to 40°C (With no condensation)	
Thread	Mounting	JIS B0203 (Taper thread for piping) JIS B0209, Class 2 (Metric coarse thread)
	Nut	JIS B0211, Class 2 (Metric fine thread)
Sealant (Thread portion)	With / Without sealant	

Note 1) Applicable to general industrial water. Consult SMC if using for other fluids.
Surge pressure must be under the maximum operating pressure.

Series KQ2: White body Series KQ : Black body

Guide

Collet

Chuck

Applicable to nylon and polyurethane
Large retaining force

Secure engagement with chuck and large retaining force with collet.

Packing

Compatible with a wide range of pressure, from low vacuum to 1.0 MPa.

The special shape ensures sealing and reduces resistance in tubing insertion.

Thread

M, R, Rc

Release button

Series KQ2: Light grey
Series KQ : Blue

Requires little force for removal
Releases the chuck collet to remove the tube as well as to prevent the chuck from biting too deeply into the tubing.

Tubing

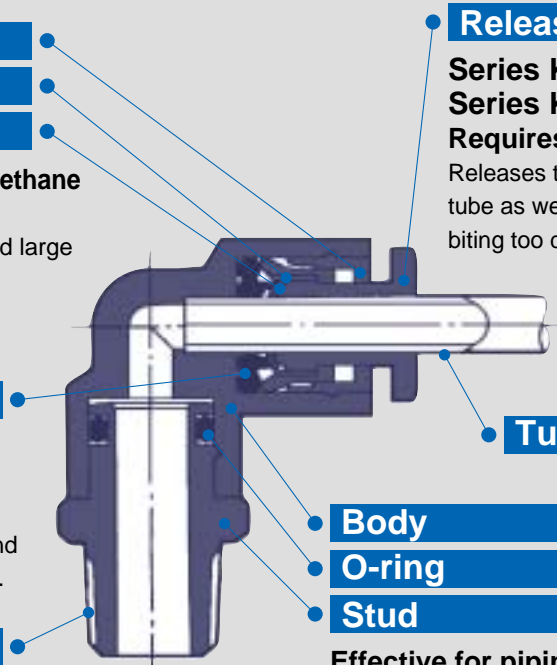
Body

O-ring

Stud




















Effective for piping in confined space















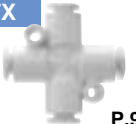


The body and thread portion can be rotated.
(For positioning)











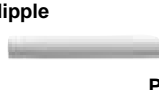

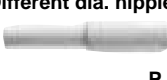
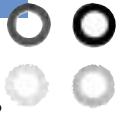
PAT.









Refer to Best Pneumatics No. 4 for the inch size.

Tubing  Female thread hole	
KQ2H Male connector	 P.3
KQ2S Hexagon socket head male connector	 P.3
KQ2L Male elbow	 P.3
KQ2K 45° Male elbow	 P.3
KQ2VT Triple universal male elbow	 P.5
KQ2W Extended male elbow	 P.4
KQ2LU Branch union elbow	 P.6
KQ2V Universal male elbow	 P.4
KQ2Z Branch universal male elbow	 P.6
KQ2VS Hexagon socket head universal male elbow	 P.4
KQ2ZD Double branch universal male elbow	 P.6
KQ2T Male branch tee	 P.4
KQ2ZT Triple branch universal male elbow	 P.6
KQ2Y Male run tee	 P.5
KQ2UD Delta branch	 P.7
KQ2U Union "Y"	 P.5
KQ2D Delta union	 P.7
KQ2VD Double universal male elbow	 P.5

Tubing  Tubing	
KQ2H Straight union	 P.8
KQ2T Different dia. tee	 P.9
KQ2E Bulkhead union	 P.8
KQ2U Different dia. union "Y"	 P.9
KQ2L Union elbow	 P.8
KQ2UD Different dia. double union "Y"	 P.9
KQ2LE Bulkhead male elbow	 P.8
KQ2LU Branch union elbow	 P.9
KQ2T Union tee	 P.8
KQ2D Delta union	 P.9
KQ2U Union "Y"	 P.8
KQ2TW Cross	 P.9
KQ2H Different dia. straight	 P.8
KQ2TX Different dia. cross	 P.9
KQ2T Different dia. tee	 P.9
KQ2TY Different dia. cross	 P.9

Tubing  Male thread	
KQ2F Female connector	 P.11
KQ2VF Universal female elbow	 P.11
KQ2E Bulkhead connector	 P.11
KQ2ZF Branch universal female elbow	 P.11
KQ2LF Female elbow	 P.11

Accessories	
KQ2P Plug	 P.12
KQ2N Adapter	 P.12
KQ2N Nipple	 P.12
KQ2C Tube cap	 P.12
KQ2N Different dia. nipple	 P.12
KQ2C Collar cap	 P.12

Tubing  One-touch fittings	
KQ2L Plug-in elbow	 P.10
KQ2U Plug-in "Y"	 P.10
KQ2W Extended plug-in elbow	 P.10
KQ2X Different dia. plug-in "Y"	 P.10
KQ2R Plug-in reducer	 P.10
KQ2XD Double plug-in "Y"	 P.10
KQ2L Reducer elbow	 P.10



Male Connector

KQ2H/KQH

Most common style used to pipe from female thread in the same direction.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2H (Release Button, Light grey)	KQH (Release Button, Blue)
3.2	M5 X 0.8	KQ2H23-M5	KQH23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5 X 0.8	KQ2H04-M5	KQH04-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5 X 0.8	KQ2H06-M5	KQH06-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R1/8	KQ2H08-01S	KQH08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/8	KQ2H10-01S	KQH10-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2H12-02S	KQH12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
16	R3/8	KQ2H16-03S	KQH16-03S
	R1/2	-04S	-04S



Male Elbow

KQ2L/KQL

Most common style used to pipe from female thread at a right angle.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2L (White)	KQL (Black)
3.2	M5 X 0.8	KQ2L23-M5	KQL23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5 X 0.8	KQ2L04-M5	KQL04-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5 X 0.8	KQ2L06-M5	KQL06-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R1/8	KQ2L08-01S	KQL08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/8	KQ2L10-01S	KQL10-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2L12-02S	KQL12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
16	R3/8	KQ2L16-03S	KQL16-03S
	R1/2	-04S	-04S



Hexagon Socket Head Male Connector

KQ2S/KQS

The hexagon socket in the body is used to tighten the socket head male connector with a hexagon wrench. Useful in a confined space.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2S (Release Button, Light grey)	KQS (Release Button, Blue)
4	M5 X 0.8	KQ2S04-M5	KQS04-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
6	M5 X 0.8	KQ2S06-M5	KQS06-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
8	R1/8	KQ2S08-01S	KQS08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/8	KQ2S10-01S	KQS10-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2S12-02S	KQS12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
16	R3/8	KQ2S16-03S	KQS16-03S
	R1/2	-04S	-04S



45° Male Elbow

KQ2K/KQK

For piping at 45° from female thread. Intermediate model between male connector and male elbow.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2K (White)	KQK (Black)
4	M5 X 0.8	KQ2K04-M5	KQK04-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5 X 0.8	KQ2K06-M5	KQK06-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R1/8	KQ2K08-01S	KQK08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/8	KQ2K10-01S	KQK10-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2K12-02S	KQK12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
16	R3/8	KQ2K16-03S	KQK16-03S
	R1/2	-04S	-04S





Extended Male Elbow **KQ2W/KQW**

Basically used in the same way as a male elbow.
But also used in 3 dimensional piping to prevent interference of fittings.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2W (White)	KQW (Black)
3.2	M5 X 0.8	KQ2W23-M5	KQW23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5 X 0.8	KQ2W04-M5	KQW04-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5 X 0.8	KQ2W06-M5	KQW06-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
8	R1/8	KQ2W08-01S	KQW08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/4	KQ2W10-02S	KQW10-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2W12-02S	KQW12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
16	R3/8	KQ2W16-03S	KQW16-03S
	R1/2	-04S	-04S

<M5>

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Hexagon Socket Head Universal Male Elbow **KQ2VS/KQVS**

The hexagon socket in the head is used to tighten the body with a hexagon wrench. Useful in a confined space.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2VS (White)	KQVS (Black)
4	M5 X 0.8	KQ2VS04-M5	KQVS04-M5
	R1/8	-01S	-01S
6	M5 X 0.8	KQ2VS06-M5	KQVS06-M5
	R1/8	-01S	-01S
8	R1/4	-02S	-02S
	R1/8	KQ2VS08-01S	KQVS08-01S
10	R1/4	-02S	-02S
	R3/8	-03S	-03S
12	R1/4	KQ2VS10-02S	KQVS10-02S
	R3/8	-03S	-03S
16	R3/8	KQ2VS12-03S	KQVS12-03S
	R1/2	-04S	-04S

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KQ2/KQ

Male Branch Tee **KQ2T/KQT**

To branch the line from the female thread at 90° in each direction.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2T (White)	KQT (Black)
3.2	M5 X 0.8	KQ2T23-M5	KQT23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5 X 0.8	KQ2T04-M5	KQT04-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
6	R1/4	-02S	-02S
	M5 X 0.8	KQ2T06-M5	KQT06-M5
	M6 X 1	-M6	-M6
8	R1/8	-01S	-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/8	KQ2T08-01S	KQT08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
12	R1/8	KQ2T10-01S	KQT10-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
16	R1/2	-04S	-04S
	R1/4	KQ2T12-02S	KQT12-02S
	R3/8	-03S	-03S
16	R1/2	-04S	-04S
	R3/8	KQ2T16-03S	KQT16-03S
	R1/2	-04S	-04S

<M5>

<M6>

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Universal Male Elbow **KQ2V/KQV**

The hexagon head of the body is used to tighten the body with a box wrench in a confined space.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2V (White)	KQV (Black)
4	M5 X 0.8	KQ2V04-M5	KQV04-M5
	R1/8	-01S	-01S
6	M5 X 0.8	KQ2V06-M5	KQV06-M5
	R1/8	-01S	-01S
8	R1/4	-02S	-02S
	R1/8	KQ2V08-01S	KQV08-01S
10	R1/4	-02S	-02S
	R3/8	-03S	-03S
12	R1/4	KQ2V10-02S	KQV10-02S
	R3/8	-03S	-03S
16	R3/8	KQ2V12-03S	KQV12-03S
	R1/2	-04S	-04S
16	R3/8	KQ2V16-03S	KQV16-03S
	R1/2	-04S	-04S

<M5>

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Male Run Tee

KQ2Y/KQY

To branch the line from the female thread in the same direction and at 90°.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2Y (White)	KQY (Black)
3.2	M5 X 0.8	KQ2Y23-M5	KQY23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5 X 0.8	KQ2Y04-M5	KQY04-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5 X 0.8	KQ2Y06-M5	KQY06-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R1/8	KQ2Y08-01S	KQY08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/8	KQ2Y10-01S	KQY10-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2Y12-02S	KQY12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
16	R3/8	KQ2Y16-03S	KQY16-03S
	R1/2	-04S	-04S

<M5, M6>

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Union "Y"

KQ2U/KQU

To branch tubing in the same direction.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2U (White)	KQU (Black)
3.2	M5 X 0.8	KQ2U23-M5	KQU23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5 X 0.8	KQ2U04-M5	KQU04-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5 X 0.8	KQ2U06-M5	KQU06-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R1/8	KQ2U08-01S	KQU08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/4	KQ2U10-02S	KQU10-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
	R1/4	KQ2U12-02S	KQU12-02S
12	R3/8	-03S	-03S
	R1/2	-04S	-04S
	R3/8	KQ2U16-03S	KQU16-03S
16	R1/2	-04S	-04S

<M5, M6>

<R>

Double Universal Male Elbow

KQ2VD/KQVD

To branch the line from the female thread at right angles. 2 individual parts rotate freely.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2VD (White)	KQVD (Black)
4	R1/8	KQ2VD04-01S	KQVD04-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/8	KQ2VD06-01S	KQVD06-01S
6	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/8	KQ2VD08-01S	KQVD08-01S
8	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
10	R1/4	KQ2VD10-02S	KQVD10-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2VD12-02S	KQVD12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S

Triple Universal Male Elbow

KQ2VT/KQVT

To branch line from the female thread into 3 directions at right angles. 3 individual parts rotate freely.



Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2VT (White)	KQVT (Black)
4	R1/8	KQ2VT04-01S	KQVT04-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
6	R1/8	KQ2VT06-01S	KQVT06-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
8	R1/8	KQ2VT08-01S	KQVT08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/2	-04S	-04S
	R1/4	KQ2VT10-02S	KQVT10-02S
	R3/8	-03S	-03S
12	R1/2	-04S	-04S
	R1/4	KQ2VT12-02S	KQVT12-02S
	R3/8	-03S	-03S
16	R1/2	-04S	-04S



Branch Union Elbow

KQ2LU/KQLU


To branch tubing at a right angle from the female thread.

	Applicable tubing O.D. mm	Connecting thread	Model	
			KQ2LU (White)	KQLU (Black)
 <M5, M6>	4	M5 X 0.8	KQ2LU04-M5	KQLU04-M5
		M6 X 1	-M6	-M6
		R1/8	-01S	-01S
		R1/4	-02S	-02S
 <R>	6	M5 X 0.8	KQ2LU06-M5	KQLU06-M5
		M6 X 1	-M6	-M6
		R1/8	-01S	-01S
		R1/4	-02S	-02S
	8	R3/8	-03S	-03S
		R1/8	KQ2LU08-01S	KQLU08-01S
		R1/4	-02S	-02S
		R3/8	-03S	-03S
	10	R1/4	KQ2LU10-02S	KQLU10-02S
		R3/8	-03S	-03S
		R1/2	-04S	-04S
		R1/4	KQ2LU12-02S	KQLU12-02S
	12	R3/8	-03S	-03S
		R1/2	-04S	-04S

Double Branch Universal Male Elbow

KQ2ZD/KQZD


To branch the line from the female thread into 4 tubes at right angles. 2 individual parts rotate freely.

	Applicable tubing O.D. mm	Connecting thread	Model	
			KQ2ZD (White)	KQZD (Black)
	4	R1/8	KQ2ZD04-01S	KQZD04-01S
		R1/4	-02S	-02S
		R3/8	-03S	-03S
	6	R1/8	KQ2ZD06-01S	KQZD06-01S
		R1/4	-02S	-02S
		R3/8	-03S	-03S
	8	R1/8	KQ2ZD08-01S	KQZD08-01S
		R1/4	-02S	-02S
		R3/8	-03S	-03S
		R1/2	-04S	-04S
	10	R1/4	KQ2ZD10-02S	KQZD10-02S
		R3/8	-03S	-03S
		R1/2	-04S	-04S
	12	R1/4	KQ2ZD12-02S	KQZD12-02S
		R3/8	-03S	-03S
		R1/2	-04S	-04S

Branch Universal Male Elbow

KQ2Z/KQZ


The hexagon head of the body is used to tighten the body with a box wrench. Used to branch the line. Elbow union for piping.

	Applicable tubing O.D. mm	Connecting thread	Model	
			KQ2Z (White)	KQZ (Black)
 <M5>	4	M5 X 0.8	KQ2Z04-M5	KQZ04-M5
		R1/8	-01S	-01S
		R1/4	-02S	-02S
	6	R3/8	-03S	-03S
		R1/8	KQ2Z06-01S	KQZ06-01S
		R1/4	-02S	-02S
	8	R3/8	-03S	-03S
		R1/8	KQ2Z08-01S	KQZ08-01S
		R1/4	-02S	-02S
	10	R3/8	-03S	-03S
		R1/4	KQ2Z10-02S	KQZ10-02S
		R3/8	-03S	-03S
	12	R3/8	KQ2Z12-03S	KQZ12-03S
		R1/2	-04S	-04S

Triple Branch Universal Male Elbow

KQ2ZT/KQZT

To branch the line from the female thread into 6 tubes at right angles. 3 individual parts rotate freely.

	Applicable tubing O.D. mm	Connecting thread	Model	
			KQ2ZT (White)	KQZT (Black)
	4	R1/8	KQ2ZT04-01S	KQZT04-01S
		R1/4	-02S	-02S
		R3/8	-03S	-03S
	6	R1/8	KQ2ZT06-01S	KQZT06-01S
		R1/4	-02S	-02S
		R3/8	-03S	-03S
	8	R1/8	KQ2ZT08-01S	KQZT08-01S
		R1/4	-02S	-02S
		R3/8	-03S	-03S
	10	R1/2	-04S	-04S
		R1/4	KQ2ZT10-02S	KQZT10-02S
		R3/8	-03S	-03S
	12	R1/2	-04S	-04S
		R1/4	KQ2ZT12-02S	KQZT12-02S
		R3/8	-03S	-03S
		R1/2	-04S	-04S



Delta Branch

KQ2UD/KQUD

To branch the line from the female thread into 4 tubes in the same direction.



Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2UD (White)	KQUD (Black)
4	R1/8	KQ2UD04-01S	KQUD04-01S
	R1/4	-02S	-02S
6	R1/8	KQ2UD06-01S	KQUD06-01S
	R1/4	-02S	-02S

Delta Union

KQ2D/KQD

To branch the line from the female thread into 2 directions at right angles.



<M5, M6>



<R>

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2D (White)	KQD (Black)
4	M5 X 0.8	KQ2D04-M5	KQD04-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5 X 0.8	KQ2D06-M5	KQD06-M5
	M6 X 1	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
8	R1/8	KQ2D08-01S	KQD08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/4	KQ2D10-02S	KQD10-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2D12-02S	KQD12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S

Straight Union

KQ2H/KQH

To connect tubings in the same direction.

Applicable tubing O.D. mm	Model	
	KQ2H (White)	KQH (Black)
3.2	KQ2H23-00	KQH23-00
4	KQ2H04-00	KQH04-00
6	KQ2H06-00	KQH06-00
8	KQ2H08-00	KQH08-00
10	KQ2H10-00	KQH10-00
12	KQ2H12-00	KQH12-00
16	KQ2H16-00	KQH16-00



Bulkhead Male Elbow

KQ2LE/KQLE

To connect tubings through a panel and change the tubing entry by 90°.

Applicable tubing O.D. mm	Model	
	KQ2LE (White)	KQLE (Black)
4	KQ2LE04-00	KQLE04-00
6	KQ2LE06-00	KQLE06-00
8	KQ2LE08-00	KQLE08-00
10	KQ2LE10-00	KQLE10-00
12	KQ2LE12-00	KQLE12-00



Bulkhead Union

KQ2E/KQE

To connect tubing through a panel.

Applicable tubing O.D. mm	Model	
	KQ2E (Release button, Light grey)	KQE (Release button, Blue)
3.2	KQ2E23-00	KQE23-00
4	KQ2E04-00	KQE04-00
6	KQ2E06-00	KQE06-00
8	KQ2E08-00	KQE08-00
10	KQ2E10-00	KQE10-00
12	KQ2E12-00	KQE12-00
16	KQ2E16-00	KQE16-00



Union Tee

KQ2T/KQT

To branch tubing into 2 directions each at 90° to the original one.

Applicable tubing O.D. mm	Model	
	KQ2T (White)	KQT (Black)
3.2	KQ2T23-00	KQT23-00
4	KQ2T04-00	KQT04-00
6	KQ2T06-00	KQT06-00
8	KQ2T08-00	KQT08-00
10	KQ2T10-00	KQT10-00
12	KQ2T12-00	KQT12-00
16	KQ2T16-00	KQT16-00



Union Elbow

KQ2L/KQL

To connect tubing at right angles to each other.

Applicable tubing O.D. mm	Model	
	KQ2L (White)	KQL (Black)
3.2	KQ2L23-00	KQL23-00
4	KQ2L04-00	KQL04-00
6	KQ2L06-00	KQL06-00
8	KQ2L08-00	KQL08-00
10	KQ2L10-00	KQL10-00
12	KQ2L12-00	KQL12-00
16	KQ2L16-00	KQL16-00



Union "Y"

KQ2U/KQU

To branch tubing in the same direction.

Applicable tubing O.D. mm	Model	
	KQ2U (White)	KQU (Black)
3.2	KQ2U23-00	KQU23-00
4	KQ2U04-00	KQU04-00
6	KQ2U06-00	KQU06-00
8	KQ2U08-00	KQU08-00
10	KQ2U10-00	KQU10-00
12	KQ2U12-00	KQU12-00
16	KQ2U16-00	KQU16-00

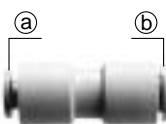


Different Dia. Straight

KQ2H/KQH

To connect tubings of different diameters.

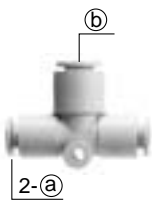
Applicable tubing O.D. mm	Model		
	(a)	(b)	KQ2H (White)
3.2	4	KQ2H23-04	KQH23-04
4	6	KQ2H04-06	KQH04-06
6	8	KQ2H06-08	KQH06-08
8	10	KQ2H08-10	KQH08-10
10	12	KQ2H10-12	KQH10-12
12	16	KQ2H12-16	KQH12-16



Different Dia. Tee

KQ2T/KQT


To branch the tubing into two at a right angle and reduce the resulting branches in size.

	Applicable tubing O.D. mm		Model	
	(a)	(b)	KQ2T (White)	KQT (Black)
	3.2	4	KQ2T23-04	KQT23-04
	4	6	KQ2T04-06	KQT04-06
	6	8	KQ2T06-08	KQT06-08
	8	10	KQ2T08-10	KQT08-10
	10	12	KQ2T10-12	KQT10-12
	12	16	KQ2T12-16	KQT12-16

Branch Union Elbow

KQ2LU/KQLU

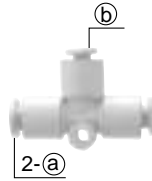
To branch a tube at a right angle into two tubes.

	Applicable tubing O.D. mm	Model	
		KQ2LU (White)	KQLU (Black)
	4	KQ2LU04-00	KQLU04-00
	6	KQ2LU06-00	KQLU06-00
	8	KQ2LU08-00	KQLU08-00
	10	KQ2LU10-00	KQLU10-00
	12	KQ2LU12-00	KQLU12-00

Different Dia. Tee

KQ2T


To connect tubing in the same direction as well as to branch it into another smaller tubing at 90°.

	Applicable tubing O.D. mm		Model	
	(a)	(b)	KQ2T (White)	KQT (Black)
	6	4	KQ2T06-04	KQT (Black) is manufactured as a made to order.
	8	6	KQ2T08-06	
	10	8	KQ2T10-08	
	12	10	KQ2T12-10	

Delta Union

KQ2D/KQD

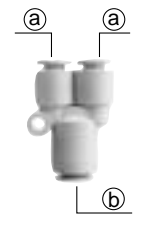
To connect 3 tubes at right angles with each other.

	Applicable tubing O.D. mm	Model	
		KQ2D (White)	KQD (Black)
	4	KQ2D04-00	KQD04-00
	6	KQ2D06-00	KQD06-00
	8	KQ2D08-00	KQD08-00
	10	KQ2D10-00	KQD10-00
	12	KQ2D12-00	KQD12-00

Different Dia. Union "Y"

KQ2U/KQU


To branch tubing into 2 smaller tubes in the same direction as the original one.

	Applicable tubing O.D. mm		Model	
	(a)	(b)	KQ2U (White)	KQU (Black)
	3.2	4	KQ2U23-04	KQU23-04
	4	6	KQ2U04-06	KQU04-06
	6	8	KQ2U06-08	KQU06-08
	8	10	KQ2U08-10	KQU08-10
	10	12	KQ2U10-12	KQU10-12
	12	16	KQ2U12-16	KQU12-16

Cross

KQ2TW


To branch tubing into 4 directions.

	Applicable tubing O.D. mm	Model	
		KQ2TW (White)	KQTW (Black)
	4	KQ2TW04-00	This model is not available with black body specifications.
	6	KQ2TW06-00	
	8	KQ2TW08-00	
	10	KQ2TW10-00	
	12	KQ2TW12-00	

Different Dia. Double Union "Y"

KQ2UD/KQUD

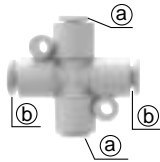
To branch tubing into 4 smaller tubes in the same direction as the original one.

	Applicable tubing O.D. mm		Model	
	(a)	(b)	KQ2UD (White)	KQUD (Black)
	4	6	KQ2UD04-06	KQUD04-06
	6	8	KQ2UD06-08	KQUD06-08

Different Dia. Cross

KQ2TX

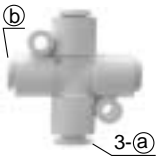
To connect 4 tubes at right angles with 2 smaller tubes on both sides.

	Applicable tubing O.D. mm		Model	
	(a)	(b)	KQ2TX (White)	KQTX (Black)
	6	8	KQ2TX06-08	This model is not available with black body specifications.
	8	10	KQ2TX08-10	
	10	12	KQ2TX10-12	

Different Dia. Cross

KQ2TY

To branch tubing into smaller tubing in 3 directions.

	Applicable tubing O.D. mm		Model	
	(a)	(b)	KQ2TY (White)	KQTY (Black)
	6	8	KQ2TY06-08	This model is not available with black body specifications.
	8	10	KQ2TY08-10	
	10	12	KQ2TY10-12	



Plug-in Elbow

KQ2L/KQL

To change the tubing direction from a one-touch fitting by 90°.

Applicable tubing O.D. mm	Fitting size	Model	
		KQ2L (White)	KQL (Black)
3.2	3.2	KQ2L23-99	KQL23-99
4	4	KQ2L04-99	KQL04-99
6	6	KQ2L06-99	KQL06-99
8	8	KQ2L08-99	KQL08-99
10	10	KQ2L10-99	KQL10-99
12	12	KQ2L12-99	KQL12-99
16	16	KQ2L16-99	KQL16-99



Reducer Elbow

KQ2L/KQL

To change the tubing direction from a one-touch fitting by 90° as well as to connect to tubing of a smaller diameter.

Applicable tubing O.D. mm	Fitting size	Model	
		KQ2L (White)	KQL (Black)
3.2	4	KQ2L23-04	KQL23-04
4	6	KQ2L04-06	KQL04-06
	8	-08	-08
6	8	KQ2L06-08	KQL06-08
	10	-10	-10
8	10	KQ2L08-10	KQL08-10
	12	-12	-12
10	12	KQ2L10-12	KQL10-12
12	16	KQ2L12-16	KQL12-16



Extended Plug-in Elbow

KQ2W/KQW

To change the tubing direction from a one-touch fitting by 90°. Applicable to 3 dimensional piping when used with a plug-in elbow.

Applicable tubing O.D. mm	Fitting size	Model	
		KQ2W (White)	KQW (Black)
3.2	3.2	KQ2W23-99	KQW23-99
4	4	KQ2W04-99	KQW04-99
6	6	KQ2W06-99	KQW06-99
8	8	KQ2W08-99	KQW08-99
10	10	KQ2W10-99	KQW10-99
12	12	KQ2W12-99	KQW12-99



Plug-in "Y"

KQ2U/KQU

To branch the line from a one-touch fitting into tubing in the same direction.

Applicable tubing O.D. mm	Fitting size	Model	
		KQ2U (White)	KQU (Black)
3.2	3.2	KQ2U23-99	KQU23-99
4	4	KQ2U04-99	KQU04-99
6	6	KQ2U06-99	KQU06-99
8	8	KQ2U08-99	KQU08-99
10	10	KQ2U10-99	KQU10-99
12	12	KQ2U12-99	KQU12-99
16	16	KQ2U16-99	KQU16-99



Plug-in Reducer

KQ2R/KQR

To connect to a smaller one-touch fitting.

Applicable tubing O.D. mm	Fitting size	Model	
		KQ2R (White)	KQR (Black)
3.2	4	KQ2R23-04	KQR23-04
	6	KQ2R04-06	KQR04-06
	8	-08	-08
4	10	-10	-10
	4	KQ2R06-04	KQR06-04
	8	-08	-08
6	10	-10	-10
	12	-12	-12
	8	10	KQ2R08-10
8	12	-12	-12
	10	KQ2R10-12	KQR10-12
10	16	-16	-16
	12	KQ2R12-16	KQR12-16



Different Dia. Plug-in "Y"

KQ2X/KQX

To branch the line from a one-touch fitting into tubing of a smaller diameter in the same direction.

Applicable tubing O.D. mm	Fitting size	Model	
		KQ2X (White)	KQX (Black)
4	6	KQ2X04-06	KQX04-06
6	8	KQ2X06-08	KQX06-08
8	10	KQ2X08-10	KQX08-10
10	12	KQ2X10-12	KQX10-12



Double Branch "Y"

KQ2XD/KQXD

To branch the line from a one-touch fitting into 4 tubes of a smaller diameter in the same direction.

Applicable tubing O.D. mm	Fitting size	Model	
		KQ2XD (White)	KQXD (Black)
4	6	KQ2XD04-06	KQXD04-06
6	8	KQ2XD06-08	KQXD06-08





Female Connector

KQ2F/KQF

To pipe from the male threaded portion of a pressure gauge, etc.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2F (Release button, Light grey)	KQF (Release button, Blue)
4	Rc1/8	KQ2F04-01	KQF04-01
	Rc1/4	-02	-02
6	Rc1/8	KQ2F06-01	KQF06-01
	Rc1/4	-02	-02
8	Rc3/8	-03	-03
	Rc1/8	KQ2F08-01	KQF08-01
10	Rc1/4	-02	-02
	Rc3/8	-03	-03
12	Rc1/4	KQ2F12-02	KQF12-02
	Rc3/8	-03	-03
16	Rc1/2	-04	-04
	Rc3/8	KQ2F16-03	KQF16-03
	Rc1/2	-04	-04



Female Elbow

KQ2LF/KQLF

To pipe from the male threaded at the right angle.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2LF (White)	KQLF (Black)
4	M5 X 0.8	KQ2LF04-M5	KQLF04-M5
	M6 X 1	-M6	-M6
	Rc1/8	-01	-01
6	Rc1/4	-02	-02
	M5 X 0.8	KQ2LF06-M5	KQLF06-M5
	M6 X 1	-M6	-M6
	Rc1/8	-01	-01
8	Rc1/4	-02	-02
	Rc3/8	-03	-03
	Rc1/8	KQ2LF08-01	KQLF08-01
10	Rc1/4	-02	-02
	Rc3/8	-03	-03
	Rc1/4	KQ2LF10-02	KQLF10-02
12	Rc3/8	-03	-03
	Rc1/2	-04	-04
	Rc1/4	KQ2LF12-02	KQLF12-02
	Rc3/8	-03	-03
	Rc1/2	-04	-04



Bulkhead Female Connector

KQ2E/KQE

Used for trunk connection between tubing and a male thread installed through a panel.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2E (Release button, Light grey)	KQE (Release button, Blue)
3.2	Rc1/4	KQ2E23-02	KQE23-02
4	Rc1/8	KQ2E04-01	KQE04-01
	Rc1/4	-02	-02
6	Rc1/8	KQ2E06-01	KQE06-01
	Rc1/4	-02	-02
	Rc3/8	-03	-03
8	Rc1/8	KQ2E08-01	KQE08-01
	Rc1/4	-02	-02
	Rc3/8	-03	-03
10	Rc1/4	KQ2E10-02	KQE10-02
	Rc3/8	-03	-03
12	Rc3/8	KQ2E12-03	KQE12-03
	Rc1/2	-04	-04
16	Rc3/8	KQ2E16-03	KQE16-03
	Rc1/2	-04	-04



Universal Female Elbow

KQ2VF/KQVF

To connect a line from a male and female thread in the same direction as well as to branch it into 2 pipes at a right angle. Multiplex connections possible.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2VF (White)	KQVF (Black)
4	M5 X 0.8	KQ2VF04-M5	KQVF04-M5
	R/Rc1/8	-01S	-01S
6	M5 X 0.8	KQ2VF06-M5	KQVF06-M5
	R/Rc1/8	-01S	-01S
	R/Rc1/4	-02S	-02S
8	R/Rc1/8	KQ2VF08-01S	KQVF08-01S
	R/Rc1/4	-02S	-02S
	R/Rc3/8	-03S	-03S
10	R/Rc1/4	KQ2VF10-02S	KQVF10-02S
	R/Rc3/8	-03S	-03S
12	R/Rc3/8	KQ2VF12-03S	KQVF12-03S
	R/Rc1/2	-04S	-04S



Branch Universal Female Elbow

KQ2ZF/KQZF

To branch a line from a male or female thread in the same direction and at a right angle. Multiplex connections possible.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2ZF (White)	KQZF (Black)
4	M5 X 0.8	KQ2ZF04-M5	KQZF04-M5
	R/Rc1/8	-01S	-01S
6	R/Rc1/8	KQ2ZF06-01S	KQZF06-01S
	R/Rc1/4	-02S	-02S
8	R/Rc1/8	KQ2ZF08-01S	KQZF08-01S
	R/Rc1/4	-02S	-02S
10	R/Rc1/4	KQ2ZF10-02S	KQZF10-02S
	R/Rc3/8	-03S	-03S
12	R/Rc3/8	KQ2ZF12-03S	KQZF12-03S
	R/Rc1/2	-04S	-04S



Plug

KQ2P/KQP

To plug unused one-touch fittings KQ2P (White), KQP (Blue).

Applicable fitting size	Model	
	KQ2P (White)	KQP (Black)
3.2	KQ2P-23	KQP-23
4	KQ2P-04	KQP-04
6	KQ2P-06	KQP-06
8	KQ2P-08	KQP-08
10	KQ2P-10	KQP-10
12	KQ2P-12	KQP-12
16	KQ2P-16	KQP-16

Tubing Cap

KQ2C/KQC

To plug unused tubing.

Applicable tubing O.D. mm	Model	
	KQ2C (White)	KQC (Black)
4	KQ2C04-00	KQC04-00
6	KQ2C06-00	KQC06-00
8	KQ2C08-00	KQC08-00
10	KQ2C10-00	KQC10-00
12	KQ2C12-00	KQC12-00
16	KQ2C16-00	KQC16-00

Nipple

KQ2N/KQN

To connect 2 one-touch fittings.

Applicable fitting size	Model	
	KQ2N (White)	KQN (Black)
4	KQ2N04-99	KQN04-99
6	KQ2N06-99	KQN06-99
8	KQ2N08-99	KQN08-99
10	KQ2N10-99	KQN10-99
12	KQ2N12-99	KQN12-99
16	KQ2N16-99	KQN16-99

Color Cap

KQ2C

Attached to release buttons for various applications to distinguish them by color.

Applicable tubing O.D. mm	Model	Application
3.2	KQ2C-01□	
	KQ2C-01A-□	KQH, KQ2H23-M5
	KQ2C-01B-□	KQL, KQ2L23-M5 KQT, KQ2T23-M5 KQY, KQ2Y23-M5
4	KQ2C-04□	
	KQ2C-04A-□	KQH, KQ2H04-M5, M6 KQS, KQ2S04-M5, M6
	KQ2C-04B-□	KQL, KQ2L04-M5, M6 KQT, KQ2T04-M5, M6 KQY, KQ2Y04-M5, M6
6	KQ2C-06□	
	KQ2C-06A-□	KQH, KQ2H06-M5, M6 KQS, KQ2S06-M5, M6
	KQ2C-06B-□	KQL, KQ2L06-M5, M6 KQT, KQ2T06-M5, M6 KQY, KQ2Y06-M5, M6
8	KQ2C-08□	
10	KQ2C-10□	
12	KQ2C-12□	
16	KQ2C-16□	

Different Dia. Nipple

KQ2N/KQN

To connect one-touch fittings of different sizes.

Applicable fitting size	Model		
	KQ2N (White)	KQN (Black)	
④	⑥	KQ2N04-06	KQN04-06
⑥	⑧	KQ2N06-08	KQN06-08
⑧	⑩	KQ2N08-10	KQN08-10
⑩	⑫	KQ2N10-12	KQN10-12
⑫	⑰	KQ2N12-16	KQN12-16

B (Black), R (Red), YR (Orange), BR (Brown), Y (Yellow), G (Green), CB (Sky blue), GR (Gray), W (White), BU (Blue)

Adapter

KQ2N/KQN

To connect a one-touch fitting and R female thread.

Applicable fitting size	Connecting thread	Model	
		KQ2N (White)	KQN (Black)
4	M5 X 0.8	KQ2N04-M5	KQN04-M5
	R1/8	-01S	-01S
6	M5 X 0.8	KQ2N06-M5	KQN06-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R1/4	KQ2N08-02S	KQN08-02S
	R3/8	-03S	-03S
10	R3/8	KQ2N10-03S	KQN10-03S



Made to Order

Electroless Nickel Plated on Brass Parts **X2**
 (Example) KQ2H06-02S-X2

Electroless Nickel Plating on Brass Parts (X2)
 Seal, O-ring: Fluororesin Rubber **X47**
 (Example) KQ2H06-02S-X47

No Lubrication **X57**
 (Example) KQ2H06-02S-X57

Lubricant: Vaseline **X12**
 (Example) KQ2H06-02S-X12

Seal: Fluororesin Coating
 Oil Free: No Lubrication **X17**
 (Example) KQ2H06-02S-X17

Electroless Nickel Plating on Brass Parts (X2)
 Seal: Fluororesin Coating
 Oil Free: No Lubrication (X17) **X29**
 (Example) KQ2H06-02S-X29

Electroless Nickel Plating on Brass Parts (X2)
 Lubricant: Vaseline (X12) **X16**
 (Example) KQ2H06-02S-X16

Clean Series **10-**
 Electroless nickel plating on brass parts (X2)
 Lubricant: Fluororesin grease
 Double packaging
 Resin bodyrelease button: White
 (Example) 10-KQH06-02S