

One-Touch Fittings

Series **KQ2**

Features

- ➔ Wide range of pressures - Low vacuum (10 Torr) to 10 Bar (1.0MPa) pressure
- ➔ Wide range of tube systems (3.2mm - 16mm OD tube)
- ➔ Minimised resistance to air flow
- ➔ Widest range of configuration available
- ➔ Choice of body colour to suit customer application

KQ2/White body



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.

■ Applicable tubing diameter: **Metric Size**

■ Connecting thread: **M, R, Rc**

Applicable Tubing

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

Colour

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

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.

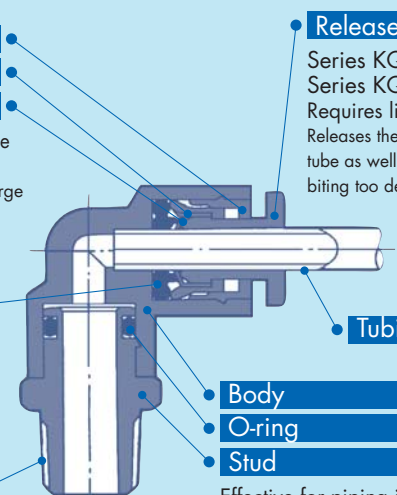
Tubing

Body

O-ring

Stud

Effective for piping in confined space
The body and thread portion can be rotated.
(For positioning)



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Tubing

Female thread hole

KQ2H/KQH Male Connector

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	KQ2H23-M5	KQH23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5	KQ2H04-M5	KQH04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2H06-M5	KQH06-M5
	M6	-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



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KQ2L/KQL Male Elbow

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	KQ2L23-M5	KQL23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5	KQ2L04-M5	KQL04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2L06-M5	KQL06-M5
	M6	-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



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KQ2K/KQK 45° Male Elbow

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	KQ2K04-M5	KQK04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2K06-M5	KQK06-M5
	M6	-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



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KQ2W/KQW Ext. Male Elbow

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	KQ2W23-M5	KQW23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5	KQ2W04-M5	KQW04-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	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
	R1/4	KQ2W12-02S	KQW12-02S
12	R3/8	-03S	-03S
	R1/2	-04S	-04S
	R3/8	KQ2W16-03S	KQW16-03S
16	R1/2	-04S	-04S



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Tubing **Female thread hole**

KQ2S/KQS Hexagon Socket Head Male Connector

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	KQ2S04-M5	KQS04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
6	M5	KQ2S06-M5	KQS06-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
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



KQ2VS/KQVS Hex. Socket Head Universal Male Elbow

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	KQ2VS04-M5	KQVS04-M5
	R1/8	-01S	-01S
6	M5	KQ2VS06-M5	KQVS06-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R1/8	KQ2VS08-01S	KQVS08-01S
	R1/4	-02S	-02S
10	R3/8	-03S	-03S
	R1/4	KQ2VS10-02S	KQVS10-02S
12	R3/8	KQ2VS12-03S	KQVS12-03S
	R1/2	-04S	-04S



Fittings & Tubing

KQ2V/KQV Universal Male Elbow

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	KQ2V04-M5	KQV04-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2V06-M5	KQV06-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
	R1/8	KQ2V08-01S	KQV08-01S
8	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/4	KQ2V10-02S	KQV10-02S
10	R3/8	-03S	-03S
	R3/8	KQ2V12-03S	KQV12-03S
12	R1/2	-04S	-04S
	R3/8	KQ2V16-03S	KQV16-03S
16	R1/2	-04S	-04S



KQ2T/KQT Male Branch Tee

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	KQ2T23-M5	KQT23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5	KQ2T04-M5	KQT04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2T06-M5	KQT06-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R3/8	-03S	-03S
	R1/8	KQ2T08-01S	KQT08-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
10	R1/8	KQ2T10-01S	KQT10-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2T12-02S	KQT12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
16	R3/8	KQ2T16-03S	KQT16-03S
	R1/2	-04S	-04S



Tubing

Female thread hole
KQ2Y/KQY Male Run Tee

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	KQ2Y23-M5	KQY23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5	KQ2Y04-M5	KQY04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2Y06-M5	KQY06-M5
	M6	-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
	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



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KQ2U/KQU Union "Y"

To branch tubing in the same direction.

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2U (White)	KQU (Black)
3.2	M5	KQ2U23-M5	KQU23-M5
	R1/8	-01S	-01S
	R1/4	-02S	-02S
4	M5	KQ2U04-M5	KQU04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2U06-M5	KQU06-M5
	M6	-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
	R3/8	-03S	-03S
10	R1/8	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



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KQ2VD/KQVD Double Uni. Male Elbow

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
6	R1/8	KQ2VD06-01S	KQVD06-01S
	R1/4	-02S	-02S
	R3/8	-03S	-03S
8	R1/8	KQ2VD08-01S	KQVD08-01S
	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


KQ2VT/KQVT Triple Universal Male Elbow

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
	R1/2	-04S	-04S
10	R1/4	KQ2VT10-02S	KQVT10-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2VT12-02S	KQVT12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S


KQ2Z/KQZ Branch Universal Male Elbow

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)
4	M5	KQ2Z04-M5	KQZ04-M5
	R1/8	-01S	-01S
	R1/8	KQ2Z06-01S	KQZ06-01S
6	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/8	KQ2Z08-01S	KQZ08-01S
8	R1/4	-02S	-02S
	R3/8	-03S	-03S
	R1/4	KQ2Z10-02S	KQZ10-02S
10	R3/8	-03S	-03S
	R3/8	KQ2Z12-03S	KQZ12-03S
12	R1/2	-04S	-04S



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KQ2UD/KQUD Delta Branch

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
	R1/8	KQ2UD06-01S	KQUD06-01S
6	R1/4	-02S	-02S



Tubing **Female thread hole**

KQ2LU/KQLU Branch Union Elbow

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

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2LU (White)	KQLU (Black)
4	M5	KQ2LU04-M5	KQLU04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2LU06-M5	KQLU06-M5
	M6	-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



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KQ2ZD/KQZD Double Branch Universal Male Elbow

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



Fittings & Tubing

KQ2ZT/KQZT Triple Branch Universal Male Elbow

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
	R1/2	-04S	-04S
10	R1/4	KQ2ZT10-02S	KQZT10-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S
12	R1/4	KQ2ZT12-02S	KQZT12-02S
	R3/8	-03S	-03S
	R1/2	-04S	-04S



KQ2D/KQD Delta Union

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

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2D (White)	KQD (Black)
4	M5	KQ2D04-M5	KQD04-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
6	M5	KQ2D06-M5	KQD06-M5
	M6	-M6	-M6
	R1/8	-01S	-01S
	R1/4	-02S	-02S
8	R3/8	-03S	-03S
	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



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Tubing **Tubing**

KQ2H/KQH Straight Union

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

KQ2E/KQE Bulkhead Union

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

KQ2LE/KQLE Bulkhead Male Elbow

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

KQ2L/KQL Union Elbow

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

KQ2T/KQT Union Tee

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

KQ2U/KQU Union "Y"

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

KQ2H/KQH Different Dia. Straight

To connect tubings of different diameters.

Applicable tubing O.D. mm	Model		
	(a) KQ2H (White)	(b) KQH (Black)	
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

KQ2T/KQT Diff. Dia. Tee

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


Applicable tubing O.D. mm	Model		
	(a) KQ2T (White)	(b) 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



Tubing **Tubing**

KQ2LU/KQLU Branch Union Elbow

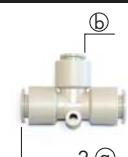
To branch a tube at a right angle into two tubes.



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

KQ2T/KQT Different Diameter Tee


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

KQ2D/KQD Delta Union


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

KQ2U/KQU Diff. Dia. Union "Y"


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



Applicable tubing O.D. mm	Model	
	(a)	(b)
3.2	4	KQ2U (White)
4	6	KQ2U23-04
6	8	KQ2U04-06
8	10	KQ2U06-08
10	12	KQ2U08-10
12	16	KQ2U10-12
12	16	KQ2U12-16

KQ2TW Cross


To branch tubing into 4 directions.



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

KQ2UD/KQUD Different Dia. Double Union "Y"

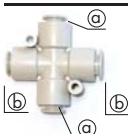
To branch tubing into 4 smaller tubes in the same direction as the original one.



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

KQ2TX Different Diameter Cross

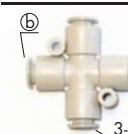
To connect 4 tubes at right angles with 2 smaller tubes on both sides.



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

KQ2TY Different Diameter Cross

To branch tubing into smaller tubing in 3 directions.



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

Tubing **One-touch fittings**

KQ2L/KQL Plug-in Elbow

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



KQ2U/KQU Plug-in "Y"

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



KQ2W/KQW Ext. Plug-in Elbow

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



KQ2L/KQL Reducer Elbow

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
	6	KQ2L04-06	KQL04-06
4	8	-08	-08
	8	KQ2L06-08	KQL06-08
6	10	-10	-10
	10	KQ2L08-10	KQL08-10
8	12	-12	-12
	12	KQ2L10-12	KQL10-12
10	16	KQ2L12-16	KQL12-16



KQ2R/KQR Plug-in Reducer

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
	10	KQ2R08-10	KQR08-10
8	12	-12	-12
	12	KQ2R10-12	KQR10-12
10	16	-16	-16
	16	KQ2R12-16	KQR12-16



KQ2X/KQX Diff. Dia. Plug-in "Y"

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
	8	KQ2X06-08	KQX06-08
8	10	KQ2X08-10	KQX08-10
10	12	KQ2X10-12	KQX10-12



KQ2XD/KQXD Double Branch "Y"

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



Tubing **Male Thread**

KQ2F/KQF Female Connector

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
	Rc3/8	-03	-03
8	Rc1/8	KQ2F08-01	KQF08-01
	Rc1/4	-02	-02
	Rc3/8	-03	-03
10	Rc1/4	KQ2F10-02	KQF10-02
	Rc3/8	-03	-03
12	Rc1/4	KQ2F12-02	KQF12-02
	Rc3/8	-03	-03
	Rc1/2	-04	-04
16	Rc3/8	KQ2F16-03	KQF16-03
	Rc1/2	-04	-04

KQ2LF/KQLF Female Elbow

To pipe from the male threaded at the right angle.



<M5, M6>



<Rc>

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

KQ2E/KQE Bulkhead Female Conn.

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
	Rc3/8	KQ2E16-03	KQE16-03
16	Rc1/2	-04	-04

KQ2VF/KQVF Uni. Female Elbow

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.



<M5>



<R, Rc>

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2VF (White)	KQVF (Black)
4	M5	KQ2VF04-M5	KQVF04-M5
	R/Rc1/8	-01S	-01S
6	M5	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

KQ2ZF/KQZF Branch Uni. Female Elbow

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



<M5>




<R, Rc>

Applicable tubing O.D. mm	Connecting thread	Model	
		KQ2ZF (White)	KQZF (Black)
4	M5	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

Accessories


KQ2P/KQP Plug

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


KQ2C/KQC Tubing Cap

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

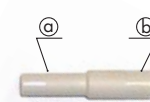
KQ2N/KQN Nipple

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


KQ2N/KQN Diff. Dia. Nipple

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	16	KQ2N12-16	KQN12-16





KQ2N/KQN Adapter

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

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

KQ2C Colour Cap

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

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

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