

# One-touch Fittings

## Series KQ2

Applicable Tubing: Metric Size  
Connection Thread: M, R, Rc

### How to Order

**KQ 2 H 06 - 01 S -**

One-touch fittings

Product's color

| Symbol | Body  | Release button |
|--------|-------|----------------|
| 2      | White | Light gray     |
| Nil    | Black | Blue           |

• Made to Order  
Refer to page 58 for details.

• With thread sealant (Male thread only)

| Nil | None                |
|-----|---------------------|
| S   | With thread sealant |

Note) Port size with sealant: Only  
R 1/8  
R 1/4  
R 3/8  
R 1/2

• Applicable tubing O.D.

| 23 | ø3.2 |
|----|------|
| 04 | ø4   |
| 06 | ø6   |
| 08 | ø8   |
| 10 | ø10  |
| 12 | ø12  |
| 16 | ø16  |

• Port size/Applicable tubing O.D.

| Thread connection |                  |                                    |
|-------------------|------------------|------------------------------------|
| M5                | M5 x 0.8         |                                    |
| M6                | M6 x 1.0         |                                    |
| 01                | R 1/8, Rc 1/8    |                                    |
| 02                | R 1/4, Rc 1/4    |                                    |
| 03                | R 3/8, Rc 3/8    |                                    |
| 04                | R 1/2, Rc 1/2    |                                    |
| 00                | Same dia. tubing |                                    |
| 04                | ø4               | (Reducer)<br>Different dia. tubing |
| 06                | ø6               |                                    |
| 08                | ø8               |                                    |
| 10                | ø10              |                                    |
| 12                | ø12              |                                    |
| 16                | ø16              |                                    |
| 99                | Same dia. rod    |                                    |

• Model

#### Accessory

| Symbol | Name           |
|--------|----------------|
|        | Nipple         |
| KQ2N   | Reducer nipple |
|        | Adaptor        |
| KQ2C   | Tube cap       |
| KQ2C   | Color cap      |
| KQ2P   | Plug (White)   |
| KQP    | Plug (Blue)    |

Use the below part number to order the gasket for M5 and M6 threads.

Gasket for M5 thread: M-5G2

Gasket for M6 thread: M-6G

|    |  |    |                                 |
|----|--|----|---------------------------------|
| H  | Male connector                           | T  | Male branch tee                 |
|    | Straight union                           |    | Union tee                       |
|    | Different diameter straight              |    | Different diameter tee*         |
| S  | Hex. socket head male connector          | TW | Cross*                          |
| F  | Female connector                         | TX | Different diameter cross*       |
| L  | Male elbow                               | TY | Different diameter cross*       |
|    | Union elbow                              | Y  | Male run tee                    |
|    | Plug-in elbow                            | D  | Male delta union                |
|    | Reducer elbow                            |    | Delta union                     |
| LU | Male branch connector                    | U  | Branch "Y"                      |
|    | Branch union elbow                       |    | Union "Y"                       |
| K  | 45° male elbow                           |    | Different dia. union "Y"        |
| V  | Universal male elbow                     |    | Plug-in "Y"                     |
| VS | Hexagon socket head universal male elbow | UD | Delta branch                    |
| VF | Universal female elbow                   |    | Different dia. double union "Y" |
| LF | Female elbow                             | XD | Double plug-in "Y"              |
| VD | Double universal male elbow              | X  | Different diameter plug-in "Y"  |
| VT | Triple universal male elbow              | R  | Plug-in reducer                 |
| Z  | Branch universal male elbow              | E  | Bulkhead union                  |
| ZF | Branch universal female elbow            |    | Bulkhead connector              |
| ZD | Double branch universal male elbow       | LE | Bulkhead male elbow             |
| ZT | Triple branch universal male elbow       |    |                                 |
| W  | Extended plug-in elbow                   |    |                                 |
|    | Extended male elbow                      |    |                                 |

\* Available only for white color body.

# Series KQ2

## Model

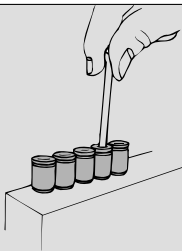
### Hex. socket head male connector

KQ2S

P. 42



Internal hex. allows thread connection by using an allen wrench for confined spaces.



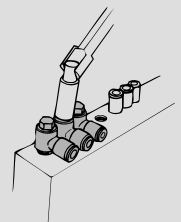
### Universal male elbow

KQ2V

P. 45



Universal male elbow allows thread connection by using a socket wrench for confined spaces.



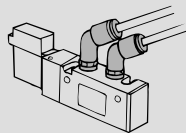
### 45° male elbow

KQ2K

P. 44



Use to pipe in 45° direction from female thread. Model in-between of male connector and male elbow.



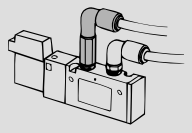
### Extended male elbow

KQ2W

P. 50



Basically, it is used together with male elbow. Different point is that it is used for with fittings to avoid from interfering with each other by making the piping two-level.



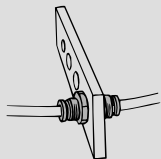
### Bulkhead union

KQ2E

P. 56



Use to connect tubes through a panel.



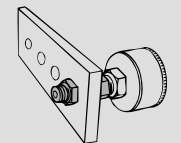
### Bulkhead connector

KQ2E

P. 56



Use to connect male thread and tube through a panel.



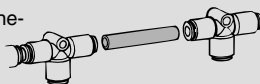
### Nipple

KQ2N

P. 57



Use to connect One-touch fittings.



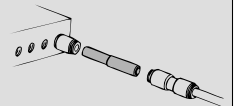
### Reducer nipple

KQ2N

P. 57



Use to connect One-touch fittings that are different tubing O.D.s.



### Male connector

KQ2H

P. 42



Use to pipe in the same direction from female thread. Most general style.

### Male elbow

KQ2L

P. 43



Use to pipe at right angles to female thread. Most general style.

### Male branch tee

KQ2T

P. 50



Use to branch line from female thread in both 90° directions.

### Female connector

KQ2F

P. 42



Use to pipe from male thread such as pressure gauge.

### Union elbow

KQ2L

P. 48



Use to connect tubes at right angles.

### Union tee

KQ2T

P. 51



Use to connect tubes in both 90° directions.

### Straight union

KQ2H

P. 43



Use to connect tubes in the same direction.

### Plug-in elbow

KQ2L

P. 49



Use to change by 90° in a tube fetching direction from One-touch fittings.

### Different diameter tee

KQ2T

P. 51



Use to connect tubes with size down in both 90° directions.

### Different diameter straight

KQ2H

P. 43



Use to connect different sized tubes.

### Reducer elbow

KQ2L

P. 49



Use to change by 90° in a tube fetching direction from One-touch fittings and to size down.

### Different diameter tee

KQ2T

P. 51



Use to branch line with size down in both side 90° direction.

### Cross

KQ2TW

P. 51



Use to four-branch line.

### Different diameter cross

KQ2TX

P. 51



Use to connect tubes with size down in all 90° directions.

### Different diameter cross

KQ2TY

P. 52



Use to branch line with size down in three directions.

## Male Branch Tee: KQ2T

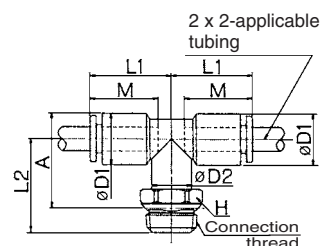


| Applicable tubing O.D. (mm) | Connection thread Uni One-touch fittings | Model      | H (width across flats) | <sup>(1)</sup> øD1 | øD2 | L1   | L2   | A*   | M    | Effective area (mm <sup>2</sup> ) |          | Mass (g) |
|-----------------------------|--|------------|------------------------|--------------------|-----|------|------|------|------|-----------------------------------|----------|----------|
|                             |  |            |                        |                    |     |      |      |      |      | Nylon                             | Urethane |          |
| 4                           | 1/8                                      | KQ2T04-U01 | 10                     | 10.4               | 10  | 18   | 20   | 21.5 | 16   | 6.0                               | 6.0      | 9        |
|                             | 1/4                                      | KQ2T04-U02 | 14                     |                    |     |      | 22   |      |      |                                   |          | 15       |
| 6                           | 1/8                                      | KQ2T06-U01 | 10                     | 12.8               | 10  | 20   | 21.5 | 23.5 | 17   | 13.9                              | 13.9     | 11       |
|                             | 1/4                                      | KQ2T06-U02 | 14                     |                    |     |      | 23   |      |      |                                   |          | 17       |
|                             | 3/8                                      | KQ2T06-U03 | 17                     |                    |     |      | 24   |      |      |                                   |          | 26       |
|                             | 1/2                                      | KQ2T06-U04 | 22                     |                    |     |      | 25.5 |      |      |                                   |          | 31       |
| 8                           | 1/8                                      | KQ2T08-U01 | 12                     | 15.2               | 12  | 23   | 22.5 | 26   | 18.5 | 26.3                              | 18.2     | 15       |
|                             | 1/4                                      | KQ2T08-U02 | 14                     |                    |     |      | 24.5 |      |      |                                   |          | 20       |
|                             | 3/8                                      | KQ2T08-U03 | 17                     |                    |     |      | 25.5 |      |      |                                   |          | 28       |
|                             | 1/2                                      | KQ2T08-U04 | 22                     |                    |     |      | 27   |      |      |                                   |          | 31       |
| 10                          | 1/8                                      | KQ2T10-U01 | 10                     | 18.5               | 17  | 26.5 | 25   | 29.5 | 21   | 35.2                              | 25       | 30       |
|                             | 1/4                                      | KQ2T10-U02 | 14                     |                    |     |      | 26.5 |      |      |                                   |          | 27       |
|                             | 3/8                                      | KQ2T10-U03 | 17                     |                    |     |      | 27   |      |      |                                   |          | 31       |
|                             | 1/2                                      | KQ2T10-U04 | 22                     |                    |     |      | 30   |      |      |                                   |          | 51       |
| 12                          | 1/4                                      | KQ2T12-U02 | 17                     | 20.9               | 17  | 28.5 | 27   | 31.5 | 22   | 57.2                              | 45.2     | 31       |
|                             | 3/8                                      | KQ2T12-U03 | 17                     |                    |     |      | 28   |      |      |                                   |          | 34       |
|                             | 1/2                                      | KQ2T12-U04 | 22                     |                    |     |      | 31   |      |      |                                   |          | 54       |
|                             | 1/2                                      | KQ2T12-U04 | 22                     |                    |     |      | 31   |      |      |                                   |          | 54       |
| 16                          | 3/8                                      | KQ2T16-U03 | 22                     | 26.5               | 21  | 33   | 33   | 40.5 | 24   | 71                                | (71)     | 62       |
|                             | 1/2                                      | KQ2T16-U04 | 22                     |                    |     |      | 35   |      |      |                                   |          | 63       |

\* Reference dimensions after Uni thread installation.

Note 1) øD1: Max. diameter

Note 2) Dimensions in ( ) are the case of soft nylon tubing.



K□

M□

H□

KK

D□

MS

LQ

MQR

T□

## Male Run Tee: KQ2Y



| Applicable tubing O.D. (mm) | Connection thread Uni One-touch fittings | Model      | H (width across flats) | <sup>(1)</sup> øD1 | øD2 | L1   | L2   | A*   | M    | Effective area (mm <sup>2</sup> ) |          | Mass (g) |
|-----------------------------|--|------------|------------------------|--------------------|-----|------|------|------|------|-----------------------------------|----------|----------|
|                             |  |            |                        |                    |     |      |      |      |      | Nylon                             | Urethane |          |
| 4                           | 1/8                                      | KQ2Y04-U01 | 10                     | 10.4               | 10  | 18   | 20   | 34   | 16   | 6.4                               | 6.4      | 9        |
|                             | 1/4                                      | KQ2Y04-U02 | 14                     |                    |     |      | 22   |      |      |                                   |          | 15       |
| 6                           | 1/8                                      | KQ2Y06-U01 | 10                     | 12.8               | 10  | 20   | 21.5 | 37.5 | 17   | 13.4                              | 13.4     | 11       |
|                             | 1/4                                      | KQ2Y06-U02 | 14                     |                    |     |      | 23   |      |      |                                   |          | 17       |
|                             | 3/8                                      | KQ2Y06-U03 | 17                     |                    |     |      | 24   |      |      |                                   |          | 26       |
|                             | 1/2                                      | KQ2Y06-U04 | 22                     |                    |     |      | 25.5 |      |      |                                   |          | 31       |
| 8                           | 1/8                                      | KQ2Y08-U01 | 12                     | 15.2               | 12  | 23   | 22.5 | 41.5 | 18.5 | 25.6                              | 17.7     | 15       |
|                             | 1/4                                      | KQ2Y08-U02 | 14                     |                    |     |      | 24.5 |      |      |                                   |          | 19       |
|                             | 3/8                                      | KQ2Y08-U03 | 17                     |                    |     |      | 25.5 |      |      |                                   |          | 28       |
|                             | 1/2                                      | KQ2Y08-U04 | 22                     |                    |     |      | 27   |      |      |                                   |          | 31       |
| 10                          | 1/8                                      | KQ2Y10-U01 | 10                     | 18.5               | 17  | 26.5 | 25   | 46.5 | 21   | 40.0                              | 28.4     | 30       |
|                             | 1/4                                      | KQ2Y10-U02 | 14                     |                    |     |      | 26.5 |      |      |                                   |          | 27       |
|                             | 3/8                                      | KQ2Y10-U03 | 17                     |                    |     |      | 27   |      |      |                                   |          | 31       |
|                             | 1/2                                      | KQ2Y10-U04 | 22                     |                    |     |      | 30   |      |      |                                   |          | 51       |
| 12                          | 1/4                                      | KQ2Y12-U02 | 17                     | 20.9               | 17  | 28.5 | 27   | 49.5 | 22   | 57.4                              | 45.4     | 31       |
|                             | 3/8                                      | KQ2Y12-U03 | 17                     |                    |     |      | 28   |      |      |                                   |          | 35       |
|                             | 1/2                                      | KQ2Y12-U04 | 22                     |                    |     |      | 31   |      |      |                                   |          | 55       |
|                             | 1/2                                      | KQ2Y12-U04 | 22                     |                    |     |      | 31   |      |      |                                   |          | 55       |
| 16                          | 3/8                                      | KQ2Y16-U03 | 22                     | 26.5               | 21  | 33   | 40.5 | 66   | 24   | 81                                | (81)     | 61       |
|                             | 1/2                                      | KQ2Y16-U04 | 22                     |                    |     |      | 63   |      |      |                                   |          | 62       |

\* Reference dimensions after Uni thread installation.

Note 1) øD1: Max. diameter

Note 2) Dimensions in ( ) are the case of soft nylon tubing.

