

# 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           |

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 | Port size/Applicable tubing O.D. |
|-------------------|----------------------------------|
| 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                               |
| 06                | ø6                               |
| 08                | ø8                               |
| 10                | ø10                              |
| 12                | ø12                              |
| 16                | ø16                              |
| 99                | Same dia. rod                    |

Tubing (Rod) connection (Reducer) Different dia. tubing

With thread seal

|     |                  |
|-----|------------------|
| Nil | None             |
| S   | With thread seal |

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

#### Model

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

| Accessory |                |
|-----------|----------------|
| Symbol    | Name           |
| KQ2N      | Nipple         |
|           | 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

\* Available only for white color body.  
Note) KQT06-04, KQT08-06, KQT10-08, and KQT12-10 are available as made to order.

**Hexagon socket head universal male elbow**

**KQ2VS** P. 17



Hex. on the top allows thread connection by using an allen wrench for confined spaces.

**Triple branch universal male elbow**

**KQ2ZT** P. 20



Use to six-branch line at right angles from female thread. Three individual parts rotate 360°.

**Union "Y"**

**KQ2U** P. 26



Use to branch line in the same direction.

**Male branch connector**

**KQ2LU** P. 16



Use to branch piping at right angles to female thread.

**Branch union elbow**

**KQ2LU** P. 21



Use to branch line at right angles.

**Different dia. union "Y"**

**KQ2U** P. 26



Use to branch line with size down in the same direction.

**Universal female elbow**

**KQ2VF** P. 18



Use to branch line in the same direction or at the right angles from male or female thread. Multiplex connection possible.

**Extended plug-in elbow**

**KQ2W** P. 21



When the elbow extends over a standard elbow for ease of connection/disconnection of tube.

**Plug-in "Y"**

**KQ2U** P. 27



Use to branch line in the same direction from One-touch fittings.

**Female elbow**

**KQ2LF** P. 18



Use to pipe at right angles to male thread.

**Male delta union**

**KQ2D** P. 25



Use to branch line in 90° direction from female thread.

**Branch "Y"**

**KQ2U** P. 25



Use to branch line in the same direction from female thread.

**Double universal male elbow**

**KQ2VD** P. 18



Use to branch line at right angles to female thread. Two individual parts rotate 360°.

**Delta union**

**KQ2D** P. 25



Use to branch in tripple 90° direction.

**Plug-in reducer**

**KQ2R** P. 28



Use to change size of One-touch fittings.

**Triple universal male elbow**

**KQ2VT** P. 19



Use to three-branch line at right angles from female thread. Three individual parts rotate 360°.

**Delta branch**

**KQ2UD** P. 26



Use to four-branch line in the same direction from female thread.

**Bulkhead male elbow**

**KQ2LE** P. 28



Use to connect tubes through a panel, changing by 90° in a tube fetching direction.

**Branch universal male elbow**

**KQ2Z** P. 19



Hexagonal head allows thread connection by using a box wrench. Use for branch connection.

**Different dia. double union "Y"**

**KQ2UD** P. 26



Use to four-branch line in the same direction with size down.

**Adaptor**

**KQ2N** P. 28



Use to connect fitting and R female thread.

**Branch universal female elbow**

**KQ2ZF** P. 19



Use to branch line in the same direction or at right angles from male or female thread. Multiplex connection possible.

**Different diameter plug-in "Y"**

**KQ2X** P. 27



Use to branch line from One-touch fitting with size down.

**Tube cap**

**KQ2C** P. 29



Use to plug unused tube.

**Double branch universal male elbow**

**KQ2ZD** P. 20



Use to four-branch line at right angles from female thread. Two individual parts rotate 360°.

**Double plug-in "Y"**

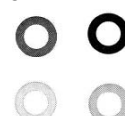
**KQ2XD** P. 27



Use to four-branch line from One-touch fitting.

**Color cap**

**KQ2C** P. 29



Mounted on the release button corresponding to its applications. Distinguished by color.

**Male run tee**

**KQ2Y** P. 24



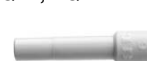
Use to branch line in the same direction from female thread and in 90° direction.

**Gasket/Seal for M5 and M6 thread**

Part no.: M-5G2 (For M5 thread)  
M-6G (For M6 thread)  
Material: Stainless steel 304, NBR

**Plug**

**KQ2P, KQP** P. 29



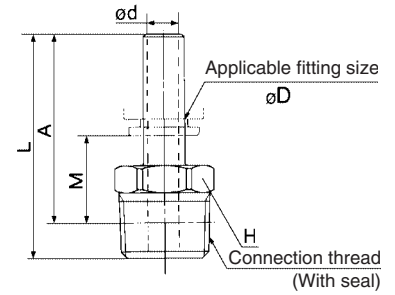
Use to plug unused One-touch fittings. KQP (Blue) KQ2P (White)

- K
- M
- H
- D
- MS
- T
- VMG

## Adaptor: KQ2N



| Applicable fitting size $\phi d$ | Connection thread R | Model             | H (width across flats) | L    | A*   | M    | $\phi d$ | Weight (g) |
|----------------------------------|---------------------|-------------------|------------------------|------|------|------|----------|------------|
| 4                                | M5 x 0.8            | <b>KQ2N04-M5</b>  | 7                      | 32   | 29   | 13   | 2.5      | 2          |
|                                  | 1/8                 | <b>KQ2N04-01S</b> | 10                     | 34   | 30   | 14   |          | 6          |
| 6                                | M5 x 0.8            | <b>KQ2N06-M5</b>  | 7                      | 33   | 30   | 13   | 2.5      | 2          |
|                                  | 1/8                 | <b>KQ2N06-01S</b> | 10                     | 35   | 31   | 14   |          | 5          |
|                                  | 1/4                 | <b>KQ2N06-02S</b> | 14                     | 37.5 | 31.5 | 14.5 | 14       |            |
| 8                                | 1/4                 | <b>KQ2N08-02S</b> | 14                     | 39   | 33   | 14.5 | 6        | 17         |
|                                  | 3/8                 | <b>KQ2N08-03S</b> | 17                     | 41   | 34.5 | 16   |          | 30         |
| 10                               | 3/8                 | <b>KQ2N10-03S</b> | 17                     | 46   | 39.5 | 18.5 | 7.5      | 31         |

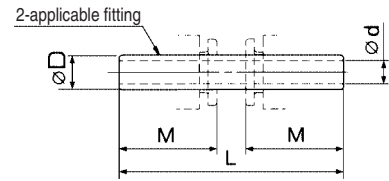


## Nipple: KQ2N

\* Reference dimensions after R thread is screwed in.



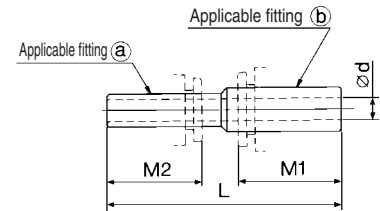
| Applicable fitting $\phi D$ | Model            | L  | M    | $\phi d$ | Weight (g) |
|-----------------------------|------------------|----|------|----------|------------|
| 4                           | <b>KQ2N04-99</b> | 37 | 16   | 2.5      | 1          |
| 6                           | <b>KQ2N06-99</b> | 39 | 17   | 4        | 2          |
| 8                           | <b>KQ2N08-99</b> | 43 | 18.5 | 6        | 2          |
| 10                          | <b>KQ2N10-99</b> | 49 | 21   | 7.5      | 4          |
| 12                          | <b>KQ2N12-99</b> | 52 | 22   | 9        | 20.6       |
| 16                          | <b>KQ2N16-99</b> | 57 | 25   | 13       | 31         |



## Reducer Nipple: KQ2N



| Applicable fitting |     | Model            | L  | M1   | M2   | $\phi d$ | Weight (g) |
|--------------------|-----|------------------|----|------|------|----------|------------|
| (a)                | (b) |                  |    |      |      |          |            |
| 4                  | 6   | <b>KQ2N04-06</b> | 38 | 17   | 16   | 2.5      | 2          |
| 6                  | 8   | <b>KQ2N06-08</b> | 42 | 18.5 | 17   | 4        | 2          |
| 8                  | 10  | <b>KQ2N08-10</b> | 47 | 21   | 18.5 | 6        | 13.2       |
| 10                 | 12  | <b>KQ2N10-12</b> | 51 | 22   | 21   | 8        | 18.2       |
| 12                 | 16  | <b>KQ2N12-16</b> | 55 | 25   | 22   | 9        | 29         |

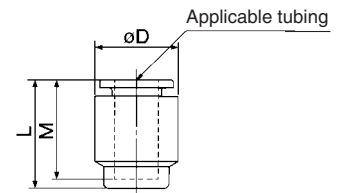


## Tube Cap: KQ2C

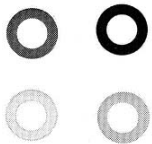


| Applicable tubing O.D. (mm) | Model            | Note) $\phi D$ | L    | M    | Weight (g) |
|-----------------------------|------------------|----------------|------|------|------------|
| 4                           | <b>KQ2C04-00</b> | 10.4           | 17   | 16   | 3          |
| 6                           | <b>KQ2C06-00</b> | 12.8           | 18.5 | 17   | 3          |
| 8                           | <b>KQ2C08-00</b> | 15.2           | 20.5 | 18.5 | 4          |
| 10                          | <b>KQ2C10-00</b> | 18.5           | 23   | 21   | 6          |
| 12                          | <b>KQ2C12-00</b> | 20.9           | 24   | 22   | 8          |
| 16                          | <b>KQ2C16-00</b> | 26.5           | 28   | 25   | 13         |

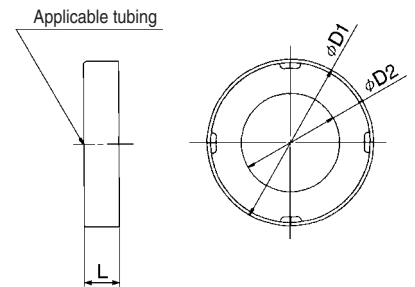
Note)  $\phi D$ : Max. diameter



## Color Cap: KQ2C



| Applicable tubing O.D. (mm) | Model              | $\phi D1$ | $\phi D2$ | L   | Weight (g) | Application  |
|-----------------------------|--------------------|-----------|-----------|-----|------------|--|
| 4                           | <b>KQ2C-04</b> □   | 10.1      | 5.2       | 2.9 | 0.1        |  |
| 4                           | <b>KQ2C-04A-</b> □ | 8.5       | 5         | 2.2 | 0.1        | KQH, KQ2H04-M5, M6<br>KQS, KQ2S04-M5, M6                       |
| 4                           | <b>KQ2C-04B-</b> □ | 9.7       | 5         | 2.2 | 0.1        | KQL, KQ2L04-M5, M6<br>KQT, KQ2T04-M5, M6<br>KQY, KQ2Y04-M5, M6 |
| 6                           | <b>KQ2C-06</b> □   | 12.1      | 7.2       | 2.9 | 0.1        |  |
| 6                           | <b>KQ2C-06A-</b> □ | 10.5      | 7         | 2.2 | 0.1        | KQH, KQ2H06-M5, M6<br>KQS, KQ2S06-M5, M6                       |
| 6                           | <b>KQ2C-06B-</b> □ | 12.0      | 7         | 2.2 | 0.1        | KQL, KQ2L06-M5, M6<br>KQT, KQ2T06-M5, M6<br>KQY, KQ2Y06-M5, M6 |
| 8                           | <b>KQ2C-08</b> □   | 14.1      | 9.2       |     | 0.1        |  |
| 10                          | <b>KQ2C-10</b> □   | 17.1      | 11.2      |     | 0.2        |  |
| 12                          | <b>KQ2C-12</b> □   | 19.1      | 13.2      |     | 0.2        |  |
| 16                          | <b>KQ2C-16</b> □   | 26.3      | 17.2      | 3.9 | 0.3        |  |



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

## Plug: KQ2P, KQP



| Applicable fitting size $\phi d$ | Model (Note)   |               | $\phi D$ | L    | A    | Weight (g) |
|----------------------------------|----------------|---------------|----------|------|------|------------|
| 3.2                              | <b>KQ2P-23</b> | <b>KQP-23</b> | 5        | 31.5 | 16   | 1          |
| 4                                | <b>KQ2P-04</b> | <b>KQP-04</b> | 6        | 32   | 16   | 1          |
| 6                                | <b>KQ2P-06</b> | <b>KQP-06</b> | 8        | 35   | 18   | 1          |
| 8                                | <b>KQ2P-08</b> | <b>KQP-08</b> | 10       | 39   | 20.5 | 2          |
| 10                               | <b>KQ2P-10</b> | <b>KQP-10</b> | 12       | 43   | 22   | 3.5        |
| 12                               | <b>KQ2P-12</b> | <b>KQP-12</b> | 14       | 45.5 | 24   | 5          |
| 16                               | <b>KQ2P-16</b> | <b>KQP-16</b> | 20.9     | 47   | 22   | 8          |

Note) KQ2P (White), KQP (Blue)

