

# 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

## Male Connector: KQ2H

<M5, M6>



<R>



| Applicable tubing O.D. (mm) | Connection thread R M | Model      | H (width across flats) | $\phi D^{(1)}$ | L    | A*   | M    | Effective area <sup>(2)</sup> (mm <sup>2</sup> ) |          | Mass (g) |
|-----------------------------|-----------------------|------------|------------------------|----------------|------|------|------|--------------------------------------------------|----------|----------|
|                             |                       |            |                        |                |      |      |      | Nylon                                            | Urethane |          |
| 3.2                         | M5 x 0.8              | KQ2H23-M5  | 7                      | 7              | 16.7 | 13.6 | 12.7 | 3                                                | 2.5      | 2.1      |
|                             | 1/8                   | KQ2H23-01S | 10                     | —              | 21.1 | 18   | 15.5 | 3.4                                              | 2.9      | 9        |
|                             | 1/4                   | KQ2H23-02S | 14                     | —              | 19   | 13.5 | 15.5 | 3.4                                              | 2.9      | 16       |
| 4                           | M5 x 0.8              | KQ2H04-M5  | 8                      | 8              | 17   | 13.9 | 12.7 | 4                                                | 4        | 2.4      |
|                             | M6 x 1.0              | KQ2H04-M6  | 8                      | 8              | 18   | 13.9 | 12.7 | 4                                                | 4        | 2.5      |
|                             | 1/8                   | KQ2H04-01S | 10                     | —              | 21.1 | 18   | 16   | 5.6                                              | 4        | 9        |
|                             | 1/4                   | KQ2H04-02S | 14                     | —              | 19   | 13.5 | 16   | 5.6                                              | 4        | 16       |
| 6                           | M5 x 0.8              | KQ2H06-M5  | 10                     | 10             | 17.8 | 14.7 | 13.5 | 4                                                | 4        | 3.3      |
|                             | M6 x 1.0              | KQ2H06-M6  | 10                     | 10             | 19   | 14.9 | 13.5 | 4                                                | 4        | 3.4      |
|                             | 1/8                   | KQ2H06-01S | 12                     | —              | 21.6 | 18.5 | 17   | 13.1                                             | 10.4     | 16       |
|                             | 1/4                   | KQ2H06-02S | 14                     | —              | 22.5 | 17   | 17   | 13.1                                             | 10.4     | 14       |
|                             | 3/8                   | KQ2H06-03S | 17                     | —              | 20.9 | 15.5 | 17   | 13.1                                             | 10.4     | 27       |
| 8                           | 1/8                   | KQ2H08-01S | 14                     | —              | 27.1 | 24   | 18.5 | 26.1                                             | 18.0     | 21       |
|                             | 1/4                   | KQ2H08-02S | 17                     | —              | 26   | 20.5 | 18.5 | 26.1                                             | 18.0     | 19       |
|                             | 3/8                   | KQ2H08-03S | 17                     | —              | 20.9 | 15.5 | 18.5 | 26.1                                             | 18.0     | 26       |
| 10                          | 1/8                   | KQ2H10-01S | 17                     | —              | 29.1 | 26   | 21   | 41.5                                             | 29.5     | 19       |
|                             | 1/4                   | KQ2H10-02S | 17                     | —              | 33   | 27.5 | 21   | 41.5                                             | 29.5     | 30       |
|                             | 3/8                   | KQ2H10-03S | 17                     | —              | 27.9 | 22.5 | 21   | 41.5                                             | 29.5     | 30       |
|                             | 1/2                   | KQ2H10-04S | 22                     | —              | 26.1 | 19   | 21   | 41.5                                             | 29.5     | 53       |
| 12                          | 1/4                   | KQ2H12-02S | 19                     | —              | 34   | 28.5 | 22   | 58.3                                             | 46.1     | 42       |
|                             | 3/8                   | KQ2H12-03S | 19                     | —              | 28.9 | 23.5 | 22   | 58.3                                             | 46.1     | 34       |
|                             | 1/2                   | KQ2H12-04S | 22                     | —              | 29.1 | 22   | 22   | 58.3                                             | 46.1     | 51       |
| 16                          | 3/8                   | KQ2H16-03S | 24                     | 25.7           | 38.4 | 33   | 25   | 81                                               | (81)     | 61       |
|                             | 1/2                   | KQ2H16-04S | 24                     | 25.7           | 34.6 | 27.5 | 25   | 113                                              | (96)     | 47       |

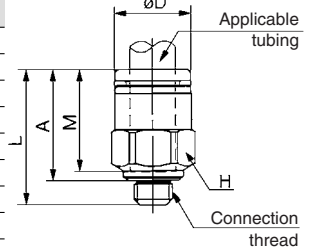
\* Reference dimensions after R thread installation.



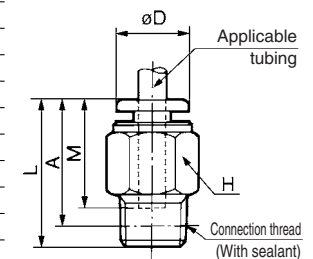
Note 1)  $\phi D$ : Max. diameter

Note 2) ( ): Values for soft nylon.

<M5, M6>



<R>



## Hexagon Socket Head Male Connector: KQ2S

<M5, M6>



<R>



| Applicable tubing O.D. (mm) | Connection thread R M | Model      | H (width across flats) | $\phi D1^{(1)}$ | $\phi D2$ | L    | A*   | M    | Effective area <sup>(2)</sup> (mm <sup>2</sup> ) |          | Mass (g) |
|-----------------------------|-----------------------|------------|------------------------|-----------------|-----------|------|------|------|--------------------------------------------------|----------|----------|
|                             |                       |            |                        |                 |           |      |      |      | Nylon                                            | Urethane |          |
| 4                           | M5 x 0.8              | KQ2S04-M5  | 2.5                    | 8               | —         | 18.7 | 15.6 | 12.7 | 4                                                | 4        | 2.7      |
|                             | M6 x 1.0              | KQ2S04-M6  | 3                      | 8               | —         | 18.2 | 14.1 | 12.7 | 4                                                | 4        | 2.8      |
|                             | 1/8                   | KQ2S04-01S | 3                      | 9.8             | —         | 23   | 19   | 16   | 4.1                                              | 3.6      | 8        |
| 6                           | M5 x 0.8              | KQ2S06-M5  | 2.5                    | 10              | —         | 19.5 | 16.4 | 13.5 | 4                                                | 4        | 3.3      |
|                             | M6 x 1.0              | KQ2S06-M6  | 3                      | 10              | —         | 19.1 | 15   | 13.5 | 4                                                | 4        | 3.4      |
|                             | 1/8                   | KQ2S06-01S | 4                      | 11.8            | —         | 24   | 20   | 17   | 10.0                                             | 9.9      | 9        |
|                             | 1/4                   | KQ2S06-02S | 4                      | 13.8            | —         | 24   | 18   | 17   | 10.7                                             | 10.0     | 15       |
| 8                           | 1/8                   | KQ2S08-01S | 5                      | 14              | —         | 28   | 24   | 18.5 | 17.2                                             | 16.2     | 12       |
|                             | 1/4                   | KQ2S08-02S | 6                      | 14              | —         | 25.5 | 19.5 | 18.5 | 17.2                                             | 16.2     | 11       |
|                             | 3/8                   | KQ2S08-03S | 6                      | 17              | —         | 27.5 | 21   | 18.5 | 23.3                                             | 16.2     | 24       |
| 10                          | 1/8                   | KQ2S10-01S | 5                      | 17              | —         | 30   | 26   | 21   | 17.2                                             | 16.2     | 18       |
|                             | 1/4                   | KQ2S10-02S | 8                      | 17              | —         | 27.5 | 21.5 | 21   | 39.0                                             | 26.6     | 12       |
|                             | 3/8                   | KQ2S10-03S | 8                      | 17              | —         | 27.5 | 21   | 21   | 39.0                                             | 26.6     | 19       |
|                             | 1/2                   | KQ2S10-04S | 8                      | 22              | —         | 28   | 20   | 21   | 39.0                                             | 26.6     | 35       |
| 12                          | 1/4                   | KQ2S12-02S | 8                      | 19              | —         | 34   | 28   | 22   | 46.0                                             | 44.5     | 23       |
|                             | 3/8                   | KQ2S12-03S | 10                     | 19              | —         | 29   | 22.5 | 22   | 60.0                                             | 44.5     | 18       |
|                             | 1/2                   | KQ2S12-04S | 10                     | 22              | —         | 28   | 20   | 22   | 60.0                                             | 44.5     | 30       |
| 16                          | 3/8                   | KQ2S16-03S | 10                     | 25.7            | 24        | 39   | 32.5 | 25   | 81                                               | (81)     | 42       |
|                             | 1/2                   | KQ2S16-04S | 12                     | 25.7            | 24        | 35   | 27   | 25   | 113                                              | (96)     | 34       |

\* Reference dimensions after R thread installation.

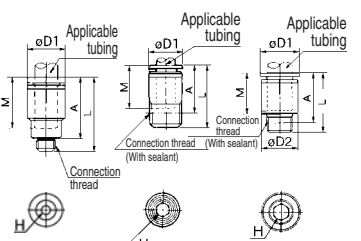


Note 1)  $\phi D1$ : Max. diameter

Note 2) ( ): Values for soft nylon.

<M5, M6> <R>

KQ2S04 to 12 KQ2S16

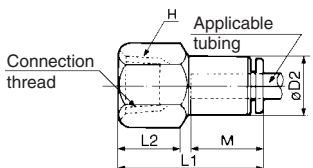


## Female Connector: KQ2F

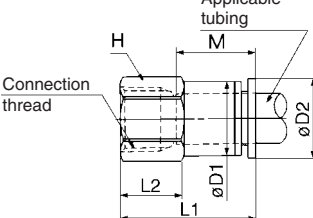


| Applicable tubing O.D. (mm) | Connection thread Rc | Model     | H (width across flats) | $\phi D1^{(1)}$ | $\phi D2$ | L1   | L2 | M    | Effective area <sup>(2)</sup> (mm <sup>2</sup> ) |          | Mass (g) |
|-----------------------------|----------------------|-----------|------------------------|-----------------|-----------|------|----|------|--------------------------------------------------|----------|----------|
|                             |                      |           |                        |                 |           |      |    |      | Nylon                                            | Urethane |          |
| 4                           | 1/8                  | KQ2F04-01 | 14                     | —               | 10        | 27   | 11 | 16   | 5.6                                              | 4        | 15       |
|                             | 1/4                  | KQ2F04-02 | 17                     | —               | 10        | 31   | 14 | 16   | 5.6                                              | 4        | 23       |
| 6                           | 1/8                  | KQ2F06-01 | 14                     | —               | 12        | 27.5 | 11 | 17   | 13.1                                             | 10.4     | 15       |
|                             | 1/4                  | KQ2F06-02 | 17                     | —               | 12        | 31   | 13 | 17   | 13.1                                             | 10.4     | 22       |
|                             | 3/8                  | KQ2F06-03 | 19                     | —               | 12        | 33.5 | 15 | 17   | 13.1                                             | 10.4     | 25       |
| 8                           | 1/8                  | KQ2F08-01 | 14                     | —               | 14        | 29   | 11 | 18.5 | 26.1                                             | 18.0     | 17       |
|                             | 1/4                  | KQ2F08-02 | 17                     | —               | 14        | 32.5 | 13 | 18.5 | 26.1                                             | 18.0     | 24       |
| 10                          | 3/8                  | KQ2F08-03 | 19                     | —               | 14        | 33.5 | 14 | 18.5 | 26.1                                             | 18.0     | 24       |
|                             | 1/4                  | KQ2F10-02 | 17                     | —               | 17        | 34.5 | 14 | 21   | 41.5                                             | 29.5     | 27       |
| 12                          | 3/8                  | KQ2F10-03 | 19                     | —               | 17        | 36.5 | 15 | 21   | 41.5                                             | 29.5     | 30       |
|                             | 1/4                  | KQ2F12-02 | 19                     | —               | 19        | 35   | 14 | 22   | 58.3                                             | 46.1     | 36       |
| 16                          | 3/8                  | KQ2F12-03 | 19                     | —               | 19        | 37   | 14 | 22   | 58.3                                             | 46.1     | 31       |
|                             | 1/2                  | KQ2F12-04 | 24                     | —               | 19        | 41   | 18 | 22   | 58.3                                             | 46.1     | 52       |
|                             | 3/8                  | KQ2F16-03 | 24                     | 24              | 25.7      | 38   | 15 | 25   | 81                                               | (81)     | 59       |
|                             | 1/2                  | KQ2F16-04 | 24                     | 24              | 25.7      | 43   | 19 | 25   | 113                                              | (96)     | 58       |

KQ2F04 to 12



KQ2F16



Note 1)  $\phi D2$ : Max. diameter

Note 2) ( ): Values for soft nylon