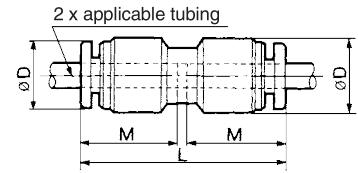


## Straight Union: KQ2H



| Applicable tubing O.D. (mm) | Model     | øD <sup>(1)</sup> | L    | M    | Effective area <sup>(2)</sup> (mm <sup>2</sup> ) |          | Mass (g) |
|-----------------------------|-----------|-------------------|------|------|--------------------------------------------------|----------|----------|
|                             |           |                   |      |      | Nylon                                            | Urethane |          |
| 3.2                         | KQ2H23-00 | 9.6               | 31.5 | 15.5 | 3.4                                              | 2.9      | 3        |
| 4                           | KQ2H04-00 | 10.4              | 32.5 | 16   | 5.6                                              | 4        | 3        |
| 6                           | KQ2H06-00 | 12.8              | 34.5 | 17   | 13.1                                             | 10.4     | 4        |
| 8                           | KQ2H08-00 | 15.2              | 38.5 | 18.5 | 26.1                                             | 18.0     | 6        |
| 10                          | KQ2H10-00 | 18.5              | 42.5 | 21   | 41.5                                             | 29.5     | 11       |
| 12                          | KQ2H12-00 | 20.9              | 44.5 | 22   | 58.3                                             | 46.1     | 14       |
| 16                          | KQ2H16-00 | 26.5              | 51   | 25   | 113                                              | (96)     | 24       |

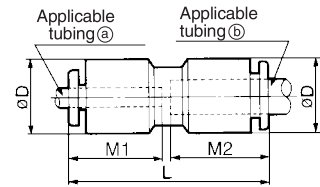


Note 1) øD: Max. diameter  
Note 2) ( ): Values for soft nylon.

## Different Diameter Straight: KQ2H



| Applicable tubing O.D. (mm) |    | Model     | Note)<br>øD | L    | M1   | M2   | Effective area (mm <sup>2</sup> ) |          | Mass (g) |
|-----------------------------|----|-----------|-------------|------|------|------|-----------------------------------|----------|----------|
| a                           | b  |           |             |      |      |      | Nylon                             | Urethane |          |
| 3.2                         | 4  | KQ2H23-04 | 10.4        | 32.5 | 15.5 | 16   | 3.4                               | 2.9      | 3        |
| 4                           | 6  | KQ2H04-06 | 12.8        | 34.5 | 16   | 17   | 5.6                               | 5.6      | 5        |
| 6                           | 8  | KQ2H06-08 | 15.2        | 38.5 | 17   | 18.5 | 13.1                              | 10.4     | 6        |
| 8                           | 10 | KQ2H08-10 | 18.5        | 42   | 18.5 | 21   | 26.1                              | 18.0     | 11       |
| 10                          | 12 | KQ2H10-12 | 20.9        | 44.5 | 21   | 22   | 41.5                              | 29.5     | 14       |
| 12                          | 16 | KQ2H12-16 | 26.5        | 56.5 | 22   | 25   | 58.3                              | 46.1     | 47       |



Note) øD: Max. diameter

## Male Elbow: KQ2L

<M5>



<M6>



<R>



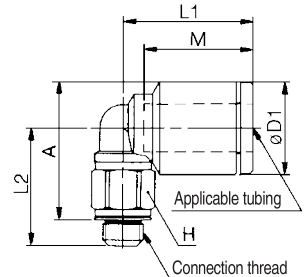
| Applicable tubing O.D. (mm) | Connection thread R M | Model      | H (width across flats) | øD <sup>(1)</sup> | øD2  | L1   | L2   | A*   | M    | Effective area <sup>(2)</sup> (mm <sup>2</sup> ) |          | Mass (g) |
|-----------------------------|-----------------------|------------|------------------------|-------------------|------|------|------|------|------|--------------------------------------------------|----------|----------|
|                             |                       |            |                        |                   |      |      |      |      |      | Nylon                                            | Urethane |          |
| 3.2                         | M5 x 0.8              | KQ2L23-M5  | 7                      | 8.5               | —    | 15.3 | 13.2 | 14.3 | 12.7 | 2.6                                              | 2.2      | 2.5      |
|                             | 1/8                   | KQ2L23-01S | 10                     | 9.6               | 10   | 17.5 | 20.6 | 22.5 | 15.5 | 3                                                | 2.5      | 8        |
|                             | 1/4                   | KQ2L23-02S | 14                     | —                 | —    | —    | 25   | 24.5 | —    | —                                                | —        | 18       |
| 4                           | M6 x 1.0              | KQ2L04-M5  | 7                      | 9.3               | —    | 15.6 | 13.7 | 15.3 | 12.7 | 3.5                                              | 3.5      | 2.7      |
|                             | 1/8                   | KQ2L04-01S | 8                      | —                 | —    | —    | 14.7 | —    | —    | —                                                | —        | 3.6      |
|                             | 1/4                   | KQ2L04-02S | 10                     | 10.4              | 10   | 18   | 21.1 | 23   | 16   | 4.2                                              | 4.2      | 10       |
| 6                           | M5 x 0.8              | KQ2L06-M5  | 7                      | —                 | —    | —    | 25.5 | 25   | —    | —                                                | —        | 19       |
|                             | M6 x 1.0              | KQ2L06-M6  | 8                      | 11.6              | —    | 16.1 | 14.7 | 17.4 | 13.5 | 3.5                                              | 3.5      | 3.2      |
|                             | 1/8                   | KQ2L06-01S | 10                     | —                 | —    | —    | 15.7 | —    | —    | —                                                | —        | 4.1      |
| 8                           | 1/4                   | KQ2L06-02S | 14                     | 12.8              | 10   | 20   | 22.1 | 25.5 | 17   | 11.4                                             | 9.0      | 12       |
|                             | 3/8                   | KQ2L06-03S | 17                     | —                 | —    | —    | 26.5 | 27.5 | —    | —                                                | —        | 22       |
|                             | 1/8                   | KQ2L08-01S | 12                     | —                 | —    | —    | 27.9 | 29   | —    | —                                                | —        | 33       |
| 10                          | 1/4                   | KQ2L08-02S | 14                     | 15.2              | 12   | 23   | 23.6 | 28   | 18.5 | 21.6                                             | 14.9     | 13       |
|                             | 3/8                   | KQ2L08-03S | 17                     | —                 | —    | —    | 28   | 30   | —    | —                                                | —        | 21       |
|                             | 1/8                   | KQ2L10-01S | 17                     | —                 | —    | —    | 29.4 | 31.5 | —    | —                                                | —        | 35       |
| 12                          | 1/4                   | KQ2L10-02S | 17                     | 18.5              | 17   | 26.5 | 26.1 | 32   | 21   | 21.6                                             | 14.9     | 25       |
|                             | 3/8                   | KQ2L10-03S | 22                     | —                 | —    | —    | 29.5 | 33   | —    | —                                                | —        | 26       |
|                             | 1/2                   | KQ2L10-04S | 22                     | —                 | —    | —    | 30.9 | 34.5 | —    | —                                                | —        | 36       |
| 16                          | 1/4                   | KQ2L12-02S | 17                     | 20.9              | 17   | 28.5 | 35.1 | 37   | 25   | 35.2                                             | 25.0     | 63       |
|                             | 3/8                   | KQ2L12-03S | 22                     | —                 | —    | —    | 30.5 | 35.5 | —    | —                                                | —        | 28       |
|                             | 1/2                   | KQ2L12-04S | 22                     | —                 | —    | —    | 31.9 | 37   | —    | —                                                | —        | 38       |
| 16                          | 3/8                   | KQ2L16-03S | 22                     | 26.5              | 20.9 | 34   | 36.1 | 39.5 | 25   | 50.2                                             | 39.7     | 65       |
|                             | 1/2                   | KQ2L16-04S | 22                     | —                 | —    | —    | 36.9 | 44.5 | —    | —                                                | —        | 101      |
|                             |                       |            |                        |                   |      |      |      |      |      | 71                                               | (71)     | 101      |
|                             |                       |            |                        |                   |      |      |      |      |      | 100                                              | (84)     | 105      |

\* Reference dimensions after R thread installation.

Note 1) øD1: Max. diameter  
Note 2) ( ): Values for soft nylon.



<M5, M6>



<R>

