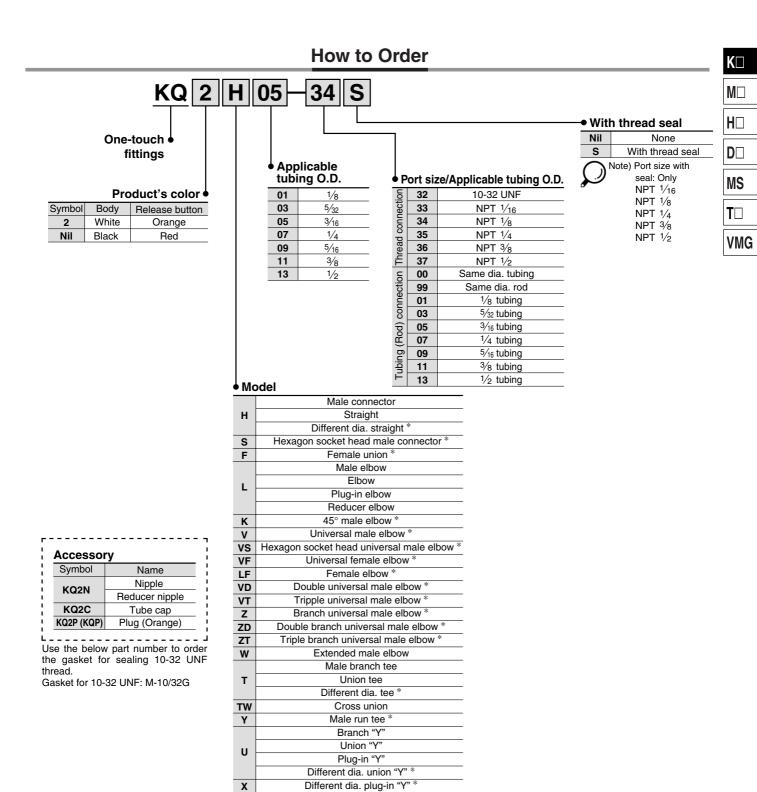
# Inch-size One-touch Fittings Series KQ2

**Applicable Tubing: Inch Size Connection Thread: UNF, NPT** 



Plug-in reducer

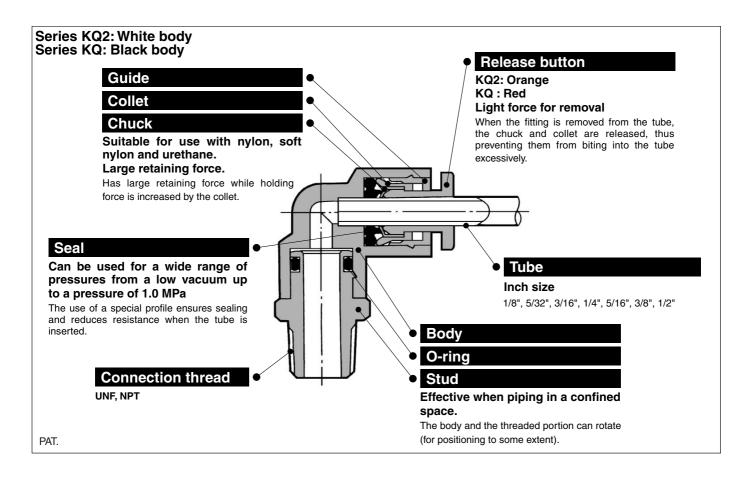
Bulkhead union

Bulkhead connector
Bulkhead union elbow \*

\* Available only for KQ2 (White color body).

R

Ε





#### **Product's Color**

| Series     | Body  | Release button |  |  |  |  |
|------------|-------|----------------|--|--|--|--|
| Series KQ2 | White | Orange         |  |  |  |  |
| Series KQ  | Black | Red            |  |  |  |  |

## **Applicable Tubing**

| Tubing material    | Nylon, Soft nylon, Polyurethane             |  |  |  |  |
|--------------------|---|--|--|--|--|
| Tubing O.D. (inch) | ø1/8, ø5/32, ø3/16, ø1/4, ø5/16, ø3/8, ø1/2 |  |  |  |  |

### **Specifications**

| Fluid  |                  | Air/Water Note)                            |  |  |  |  |
|--|------------------|--|--|--|--|--|
| Maximum operating pressure   |                  | 1.0 MPa                                    |  |  |  |  |
| Operating vacuum pressure  |                  | -100 kPa                                   |  |  |  |  |
| Proof pressure   |                  | 3.0 MPa                                    |  |  |  |  |
| Ambient and fluid temperature  |                  | -5 to 60°C, Water: 0 to 40°C (No freezing) |  |  |  |  |
| Thread   | Mounting section | ANSI/ASMEB1.20.1-1983 (NTP thread)         |  |  |  |  |
|  | Wounting Scotlon | JIS B 0212 2A, Class 2B (UNF thread)       |  |  |  |  |
|  | Nut section      | JIS B 0212 2A, Class 2B (UNF thread)       |  |  |  |  |
| Seal (Thread portion)  |                  | With thread seal                           |  |  |  |  |
| Note) Applicable for general industrial water Places expeult with SMC if using for other kinds |                  |  |  |  |  |  |

Note) Applicable for general industrial water. Please consult with SMC if using for other kinds of fluid.

Also, the surge pressure must be under the maximum operatin g pressure.

## **Principal Parts Material**

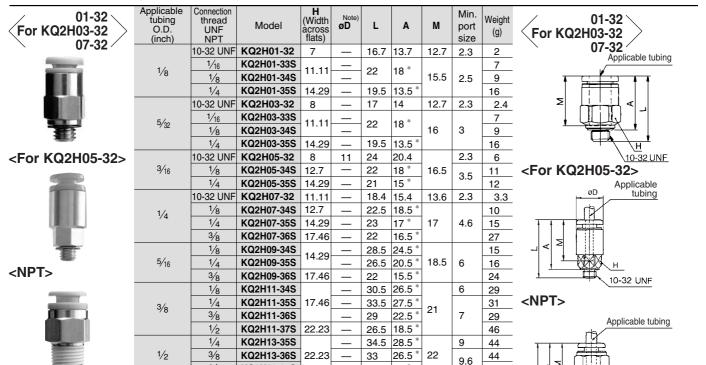
| Body           | C3604BD, PBT, PP                  |
|----------------|-----------------------------------|
| Stud           | C3604BD (Thread portion)          |
| Chuck          | Stainless steel 304               |
| Guide          | Stainless steel 304, C3604BD, POM |
| Collet         | POM                               |
| Release button | POM                               |
| Seal, O-ring   | NBR                               |
| Gasket         | Stainless steel 304, NBR          |
|                |                                   |

# Inch-size One-touch Fittings Series KQ2



# Inch-size One-touch Fittings Series KQ2

#### Male Connector: KQ2H



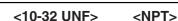
22

30 \* Reference dimensions after NPT thread installation.

Note) øD: Max. diameter **Hexagon Socket Head Male Connector: KQ2S** 

1/2

KQ2H13-37S



Connection thread (with seal)

44

 $\mathsf{K}\square$ 

 $\mathsf{M}\square$ 

 $H\square$ 

 $\mathsf{D}\Box$ 

MS

 $\mathsf{T}\Box$ 

**VMG** 





| Applicable<br>tubing<br>O.D.<br>(inch) | Connection<br>thread<br>UNF<br>NPT | Model      | H<br>(Width<br>across<br>flats) | Note)<br>Ø <b>D</b> | L    | <b>A</b> * | М    | Min.<br>port<br>size | Weight (g) |
|--|------------------------------------|------------|---------------------------------|---------------------|------|------------|------|----------------------|------------|
| 1/8                                    | 10-32 UNF                          | KQ2S01-32  | 2                               | 7                   | 19.7 | 16.6       | 12.7 | 2                    | 2.8        |
| 5/32                                   | 10-32 UNF                          | KQ2S03-32  | 2.5                             | 8                   | 18.7 | 15.6       | 12.7 | 2.3                  | 2.7        |
| 9/32                                   | 1/8                                | KQ2S03-34S | 2.78                            | 10.5                | 23.5 | 19.5       | 16   | 2.8                  | 8          |
| 3/16                                   | 1/8                                | KQ2S05-34S | 3.57                            | 10.7                | 23.5 | 19.5       | 16.5 | 3.6                  | 8          |
| 1/4 10-32 UNI<br>1/4 1/8<br>1/4        | 10-32 UNF                          | KQ2S07-32  | 2.5                             | 10.3                | 19.6 | 16.5       | 13.6 | 2.3                  | 3.3        |
|  | 1/8                                | KQ2S07-34S |                                 | 12.5                | 22   | 18         | 17   | 4.9                  | 7          |
|  | 1/4                                | KQ2S07-35S | 4.76                            | 13.8                | 23   | 17         |      |                      | 12         |
|  | 3/8                                | KQ2S07-36S |                                 | 17                  | 27   | 21         |      |                      | 27         |
|  | 1/8                                | KQ2S09-34S | 5.56                            | 14                  | 28   | 24         | 18.5 | 5.7                  | 12         |
| 5/16                                   | 1/4                                | KQ2S09-35S | 6.35                            |                     | 25.5 | 19.5       |      | 6.5                  | 11         |
|  | 3/8                                | KQ2S09-36S |                                 | 17.5                | 27.5 | 21         |      |                      | 25         |
|  | 1/8                                | KQ2S11-34S | 5.56                            | 16.5                | 30   | 26         | 21   | 5.7                  | 17         |
| 3/8                                    | 1/4                                | KQ2S11-35S | 6.35                            | 16.5                | 32   | 26         | 21   | 6.5                  | 21         |
| 9/8                                    | 3/8                                | KQ2S11-36S |                                 | 17.2                | 29   | 23         |      |                      | 25         |
|  | 1/2                                | KQ2S11-37S |                                 | 21.3                | 30   | 22         |      |                      | 45         |
| 1/2                                    | 1/4                                | KQ2S13-35S | 7.94                            | 00                  | 34.5 | 28.5       | 22   | 8                    | 26         |
|  | 3/8                                | KQ2S13-36S | 9.53                            | 20                  | 33   | 26.5       | 22   | 9.6                  | 27         |
|  | 1/2                                | KQ2S13-37S |                                 | 21.3                | 31   | 22.5       |      |                      | 36         |

Reference dimensions after NPT thread installation. Note) øD: Max. diameter

# Applicable tubing Applicable ØD øD tubing Σ Connection thread (With seal) Connection thread

## Female Connector: KQ2F

| Applicable<br>tubing<br>O.D.<br>(inch) | Connection<br>thread<br>UNF<br>NPT | Model     | H<br>(Width<br>across<br>flats) | Note)<br>ØD | L1   | L2   | М    | Min.<br>port<br>size | Weight (g) |
|--|------------------------------------|-----------|---------------------------------|-------------|------|------|------|----------------------|------------|
| 1.4                                    | 1/8                                | KQ2F01-34 | 14.29                           | 9.2         | 26.5 | 11.5 | 15.5 | 2.5                  | 16         |
| 1/8                                    | 1/4                                | KQ2F01-35 | 17.46                           | 9.2         | 30.5 | 14.5 |      |                      | 26         |
| 5/32                                   | 1/8                                | KQ2F03-34 | 14.29                           | 10          | 27   | 11   | 16   | 3                    | 15         |
| 9/32                                   | 1/4                                | KQ2F03-35 | 17.46                           | 10          | 31   | 13.5 |      |                      | 24         |
|  | 1/8                                | KQ2F07-34 | 14.29                           | 12.5        | 27.5 | 10.5 | 17   | 4.6                  | 17         |
| 1/4                                    | 1/4                                | KQ2F07-35 | 17.46                           |             | 31   | 13.5 |      |                      | 25         |
|  | 3/8                                | KQ2F07-36 | 22.23                           |             | 33.5 | 15.5 |      |                      | 44         |
|  | 1/8                                | KQ2F09-34 | 14.29                           | 14          | 29   | 10.5 | 18.5 | 6                    | 18         |
| 5/16                                   | 1/4                                | KQ2F09-35 | 17.46                           |             | 32.5 | 13.5 |      |                      | 26         |
|  | 3/8                                | KQ2F09-36 | 22.23                           |             | 34.5 | 13   |      |                      | 38         |
|  | 1/4                                | KQ2F11-35 | 17.46                           | 16.5        | 34.5 | 15   | 21   | 7                    | 30         |
| 3/8                                    | 3/8                                | KQ2F11-36 | 22.23                           |             | 36.5 | 13   |      |                      | 48         |
|  | 1/2                                | KQ2F11-37 | 23.81                           |             | 40.5 | 19   |      |                      | 52         |
| 1/2                                    | 3/8                                | KQ2F13-36 | 22.23                           | 20          | 36.5 | 14.5 | 22 I | 9.6                  | 48         |
|  | 1/2                                | KQ2F13-37 | 23.81                           |             | 41   | 18.5 |      |                      | 53         |

Note) øD: Max. diameter

