

# 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.

Tubing (Rod) connection	Thread connection	Applicable tubing O.D.
M5	M5	M5 x 0.8
M6	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) Different dia. tubing
06	ø6	
08	ø8	
10	ø10	
12	ø12	
16	ø16	
99	Same dia. rod	

Model

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		U	Different dia. union "Y"
V	Universal male elbow		U	Plug-in "Y"
VS	Hexagon socket head universal male elbow		UD	Delta branch
VF	Universal female elbow	UD	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.

Accessory

Symbol	Name
KQ2N	Nipple
	Reducer nipple
KQ2C	Adaptor
	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

Series KQ2: White body  
Series KQ : Black body

**Guide**

**Collet**

**Chuck**

Suitable for use with nylon and urethane. Large retaining force.

Has large retaining force while holding force is increased by the collet.

**Seal**

Can be used for a wide range of pressures from a low vacuum up to a pressure of 1 MPa.

The use of a special profile ensures sealing and reduces resistance when the tube is inserted.

**Connection thread**

M, R, Rc

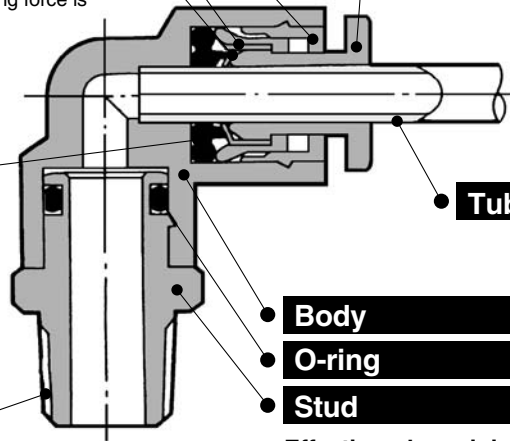
**Release button**

Series KQ2: Light gray

Series KQ : Blue

Light force for removal

When the fitting is removed from the tube, the chuck and collet are released, thus preventing them from biting into the tube excessively.



**Tube**

**Body**

**O-ring**

**Stud**

Effective when piping in a confined space.

The body and the threaded portion can rotate. (To the degree for positioning)

PAT.

- K
- M
- H
- KK
- D
- MS
- LQ
- MQR
- T

**One-touch IN/OUT connection.**  
Possible to use in vacuum  
to **-100 kPa**



### Applicable Tubing

Tube material	FEP, PFA, Nylon, Soft nylon <sup>(1)</sup> , Polyurethane
Tube O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16

Note 1) Soft nylon tubing is not compatible with water.

### Product's Color

Series	Body	Release button
Series KQ2	White	Light gray
Series KQ	Black	Blue

### Specifications

<b>Fluid</b>		Air/Water <sup>(2)</sup>
<b>Operating pressure range <sup>(3)</sup></b>		-100 kPa to 1 MPa
<b>Proof pressure</b>		3 MPa
<b>Ambient and fluid temperature</b>		-5 to 60°C, Water: 0 to 40°C (No freezing)
<b>Thread</b>	<b>Mounting section</b>	JIS B0203 (Taper thread for piping) JIS B0205 (Metric coarse thread)
	<b>Nut section</b>	JIS B0205 (Metric fine thread)
<b>Seal on the threads</b>		With sealant or none



Note 2) The surge pressure must be under the maximum operating pressure.

Note 3) Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

### Principal Parts Material

Body	C3604, PBT, PP
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304, C3604, PBT
Collet, Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



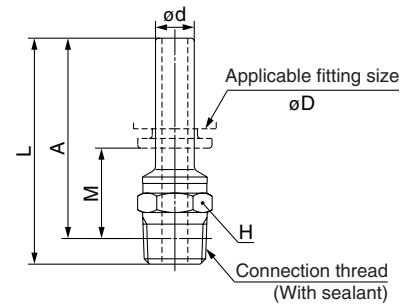
**Made to Order**  
(Refer to page 58 for details.)

## Adaptor: KQ2N



Applicable fitting size $\phi D$	Connection thread R	Model	H (width across flats)	L	A*	M	$\phi d$	Mass (g)
4	M5 x 0.8	KQ2N04-M5	7	32	29	13	2.5	2
	1/8	KQ2N04-01S	10	33.1	30	14		6
6	M5 x 0.8	KQ2N06-M5	7	33	30	13	2.5	2
	1/8	KQ2N06-01S	10	34.1	31	14		5
	1/4	KQ2N06-02S	14	37	31.5	14.5		14
8	1/4	KQ2N08-02S	14	38.5	33	14.5	6	17
	3/8	KQ2N08-03S	17	39.9	34.5	16		30
10	3/8	KQ2N10-03S	17	44.9	39.5	18.5	7.5	31

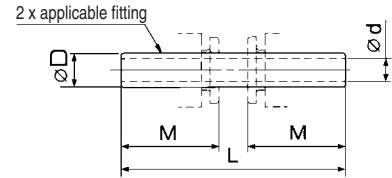
\* Reference dimensions after R thread is screwed in.



## Nipple: KQ2N



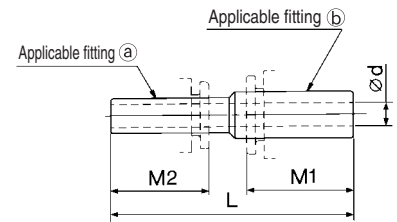
Applicable fitting $\phi D$	Model	L	M	$\phi d$	Mass (g)
4	KQ2N04-99	37	16	2.5	1
6	KQ2N06-99	39	17	4	2
8	KQ2N08-99	43	18.5	6	2
10	KQ2N10-99	49	21	7.5	4
12	KQ2N12-99	52	22	9	20.6
16	KQ2N16-99	57	25	13	31



## Reducer Nipple: KQ2N



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

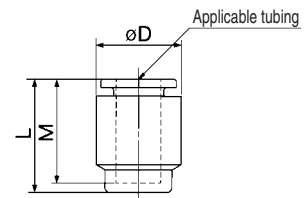


## Tube Cap: KQ2C

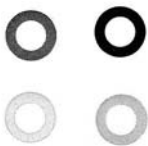


Applicable tubing O.D. (mm)	Model	Note) $\phi D$	L	M	Mass (g)
4	KQ2C04-00	10.4	17	16	3
6	KQ2C06-00	12.8	18.5	17	3
8	KQ2C08-00	15.2	20.5	18.5	4
10	KQ2C10-00	18.5	23	21	6
12	KQ2C12-00	20.9	24	22	8
16	KQ2C16-00	26.5	28	25	13

Note)  $\phi D$ : Max. diameter

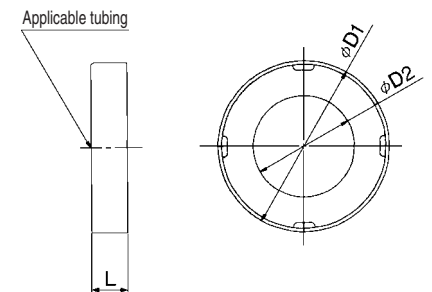


## Color Cap: KQ2C



Applicable tubing O.D. (mm)	Model	$\phi D1$	$\phi D2$	L	Mass (g)	Application
4	KQ2C-04□	10.1	5.2	2.9	0.1	
	KQ2C-04A-□	8.5	5	2.2	0.1	KQH, KQ2H04-M5, M6 KQS, KQ2S04-M5, M6
4	KQ2C-04B-□	9.7	5	2.2	0.1	KQL, KQ2L04-M5, M6 KQT, KQ2T04-M5, M6 KQY, KQ2Y04-M5, M6
6	KQ2C-06□	12.1	7.2	2.9	0.1	
6	KQ2C-06A-□	10.5	7	2.2	0.1	KQH, KQ2H06-M5, M6 KQS, KQ2S06-M5, M6
6	KQ2C-06B-□	12.0	7	2.2	0.1	KQL, KQ2L06-M5, M6 KQT, KQ2T06-M5, M6 KQY, KQ2Y06-M5, M6
8	KQ2C-08□	14.1	9.2	2.9	0.1	
10	KQ2C-10□	17.1	11.2		0.2	
12	KQ2C-12□	19.1	13.2		0.2	
16	KQ2C-16□	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	Mass (g)
3.2	KQ2P-23	KQP-23	5	31.5	16	1
4	KQ2P-04	KQP-04	6	32	16	1
6	KQ2P-06	KQP-06	8	35	18	1
8	KQ2P-08	KQP-08	10	39	20.5	2
10	KQ2P-10	KQP-10	12	43	22	3.5
12	KQ2P-12	KQP-12	14	45.5	24	5
16	KQ2P-16	KQP-16	20.9	47	22	8

Note) KQ2P (White), KQP (Blue)

