

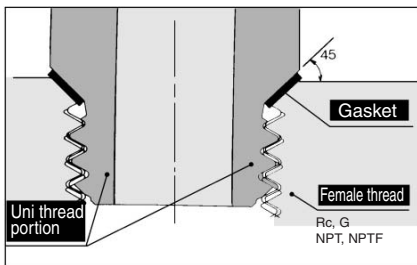
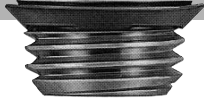
# Inch-size Uni One-touch Fittings

## Series KQ2

Applicable Tubing: Inch Size

Connection Thread: Rc, G, NPT, NPTF

New-stand male thread for piping that reduces the screw-in time by 1/3.



### Uni thread ridge shape

A gasket made of a stainless sheet covered with laminated NBR on both sides is seated on the chamfer of a female thread for a perfect sealing construction irrespective of the difference in thread diameters due to the difference in the types of female threads, variation in tolerance, or difference in the size of chamfer.

A ridge shape has been created as a Uni thread for common applications for Rc, G, NPT and NPTF.

The male thread for piping drastically cuts piping man-hours.



### Product's Color

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

### Seal

Can be used for a wide range of pressures from a low vacuum up to a pressure of 1.0 MPa

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

Body  
O-ring

### Stud

Effective when piping in a confined space.

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

Gasket

Uni thread

### Chuck

Large retaining force.

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

Collet

Guide

Tube

Release button (Orange)

Light force for removal

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

### Applicable Tubing

Tubing material	Nylon, Soft nylon, Polyurethane
Tubing O.D. (inch)	$\varnothing 1/8$ , $\varnothing 5/32$ , $\varnothing 3/16$ , $\varnothing 1/4$ , $\varnothing 5/16$ , $\varnothing 3/8$ , $\varnothing 1/2$

### Specifications

Fluid	Air/Water <sup>Note)</sup>
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)

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 operating pressure.

### Principal Parts Material

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

K□

M□

H□








D□

MS

T□

VMG

# Series KQ2

Model	
<b>Male connector</b> <b>KQ2H</b> P. 33 	Use to pipe in the same direction from female thread. Most general style.
<b>Male elbow</b> <b>KQ2L</b> P. 33 	Use to pipe at right angles to female thread. Most general style.
<b>Male branch tee</b> <b>KQ2T</b> P. 33 	Use to branch line from female thread in both 90° directions.
<b>Male run tee</b> <b>KQ2Y</b> P. 34 	Use to branch line in the same direction from female thread and in 90° direction.
<b>Branch "Y"</b> <b>KQ2U</b> P. 34 	Use to branch line in the same direction from female thread.
<b>Extended male elbow</b> <b>KQ2W</b> P. 34 	Basically, it is used together with male elbow. Different point is that it is used for fittings to avoid from interfering with each other by making the piping two-level.
<b>Gasket</b> <b>KQG</b> 	Thread seal

## How to Order

**KQ 2 H 05 U01**

- One-touch fittings**
- Product's color**
- Model**
- Applicable tubing O.D.**
- Port size**

Symbol	Body	Release button
2	White	Orange
Nil	Black	Red

H	Male connector
L	Male elbow
W	Extended male elbow
T	Male branch tee
Y	Male run tee
U	Branch "Y"

01	1/8
03	5/32
05	3/16
07	1/4
09	5/16
11	3/8
13	1/2

U01	Uni 1/8
U02	Uni 1/4
U03	Uni 3/8
U04	Uni 1/2

**How to Order Gasket**

**KQG U01**

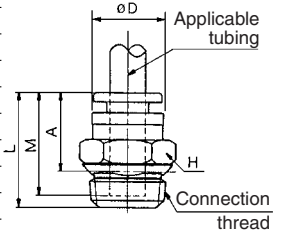
- Gasket for Uni One-touch fittings**
- Applicable port size**

U01	Uni 1/8
U02	Uni 1/4
U03	Uni 3/8
U04	Uni 1/2

## <Inch size> Male Connector: KQ2H



Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	L	A *	M	Min. port size	Weight (g)
1/8	1/8	KQ2H01-U01	11.11	18.5	13.5	15.5	2.5	7
	1/4	KQ2H01-U02	14.29	16	10			10
5/32	1/8	KQ2H03-U01	11.11	18.5	13.5	16	3	6
	1/4	KQ2H03-U02	14.29	16.5	10.5			10
3/16	1/8	KQ2H05-U01	12.7	18.5	13.5	16	3.5	7
	1/4	KQ2H05-U02	14.29	17	11			9
1/4	1/8	KQ2H07-U01	14.29	22.5	17.5	17	4.6	9
	1/4	KQ2H07-U02		20.5	14.5			11
	3/8	KQ2H07-U03	17.46	17.5	11.5	16		
5/16	1/8	KQ2H09-U01	14.29	25	20.5	18.5	6	12
	1/4	KQ2H09-U02		21.5	15.5			9
	3/8	KQ2H09-U03	17.46	19.5	13.5	16		
3/8	1/4	KQ2H11-U02	17.46	28	22	21	7	19
	3/8	KQ2H11-U03						16
	1/2	KQ2H11-U04	22.23	22	14	30		
1/2	1/4	KQ2H13-U02	22.23	30	24	22	9.6	33
	3/8	KQ2H13-U03		28.5	22.5			30
	1/2	KQ2H13-U04	25	17	28			

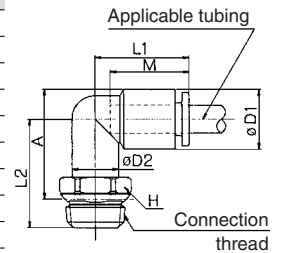


\* Reference dimensions after Uni thread installation.

## <Inch size> Male Elbow: KQ2L



Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	øD1	øD2	L1	L2	A *	M	Min. port size	Weight (g)
1/8	1/8	KQ2L01-U01	11.11	9.6	10	17.5	20	20.5	15.5	2.5	6
	1/4	KQ2L01-U02	14.29				22	21			13
5/32	1/8	KQ2L03-U01	11.11	10.4	10	18	20	21.5	16	3	7
	1/4	KQ2L03-U02	14.29				22.5	13			
3/16	1/8	KQ2L05-U01	11.11	11.4	10	19.5	20.5	22.5	16	3.5	8
	1/4	KQ2L05-U02	14.29				23	14			
1/4	1/8	KQ2L07-U01	11.11	13.2	10	20.5	21.5	24	17	4.6	8
	1/4	KQ2L07-U02	14.29				23.5	24.5			15
	3/8	KQ2L07-U03	17.46				24.5	25			21
5/16	1/8	KQ2L09-U01	12.7	15.2	12	23.5	22.5	25.5	18.5	6	10
	1/4	KQ2L09-U02	14.29				24.5	26.5			15
	3/8	KQ2L09-U03	17.46				25.5	27			17
3/8	1/4	KQ2L11-U02	17.46	17.9	17	25.5	26.5	29.5	21	7	18
	3/8	KQ2L11-U03					27	30			22
	1/2	KQ2L11-U04	30				31	41			
1/2	1/4	KQ2L13-U02	17.46	21.7	17	28	28.5	33	22	9.6	23
	3/8	KQ2L13-U03					28.5	33.5			31
	1/2	KQ2L13-U04	22.23				32	35	44		

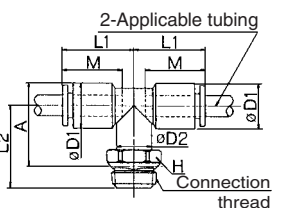


\* Reference dimensions after Uni thread installation.

## <Inch size> Male Branch tee: KQ2T



Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	øD1	øD2	L1	L2	A *	M	Min. port size	Weight (g)
1/8	1/8	KQ2T01-U01	11.11	9.6	10	17.5	20	21	15.5	2.5	8
	1/4	KQ2T01-U02	14.29				22	15			
5/32	1/8	KQ2T03-U01	11.11	10.4	10	18	20	21.5	16	3	9
	1/4	KQ2T03-U02	14.29				22.5	15			
3/16	1/8	KQ2T05-U01	11.11	11.4	10	19.5	20.5	22.5	16.5	3.5	10
	1/4	KQ2T05-U02	14.29				23	16			
1/4	1/8	KQ2T07-U01	11.11	13.2	10	20.5	21.5	24	17	4.6	10
	1/4	KQ2T07-U02	14.29				23.5	24.5			17
	3/8	KQ2T07-U03	17.46				24.5	25			24
5/16	1/8	KQ2T09-U01	12.7	15.2	12	23.5	22.5	26	18.5	6	14
	1/4	KQ2T09-U02	14.29				24.5	26.5			19
	3/8	KQ2T09-U03	17.46				25.5	27			25
3/8	1/4	KQ2T11-U02	17.46	17.9	17	25.5	26.5	29.5	21	7	24
	3/8	KQ2T11-U03					27	30			27
	1/2	KQ2T11-U04	22.23				30	31			46
1/2	1/4	KQ2T13-U02	17.46	21.7	17	28	28.5	33	22	9.6	29
	3/8	KQ2T13-U03					28.5	33.5			32
	1/2	KQ2T13-U04	22.23				32	35	51		



\* Reference dimensions after Uni thread installation.