

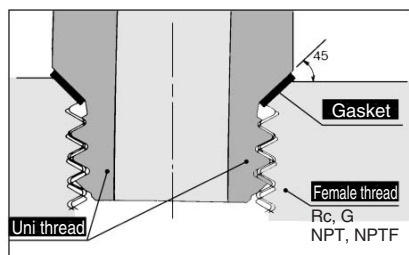
# Uni One-touch Fittings

## Series KQ2

Applicable Tubing: Metric Size

Connection Thread: Rc, G, NPT, NPTF

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

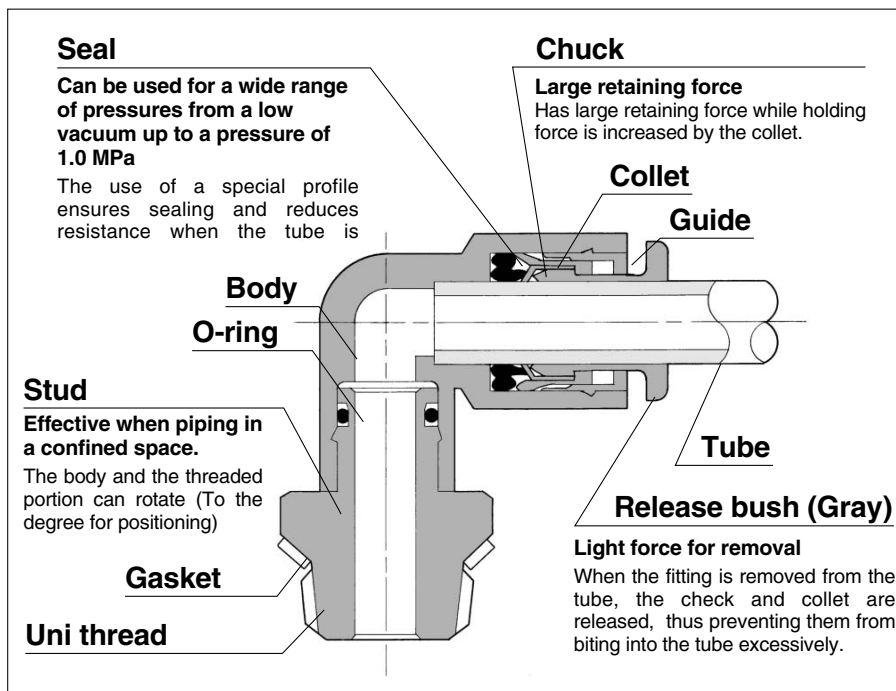


### Uni thread ridge shape

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. (It is applicable to any female thread with an ordinary 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.**



### Applicable Tubing

Tubing material	Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø4, ø6, ø8, ø10, ø12, ø16

### Product's Color

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


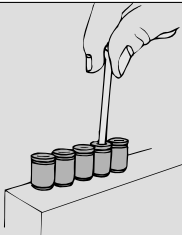

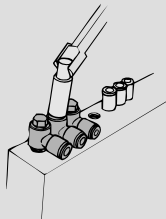

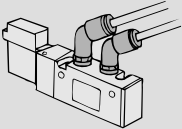

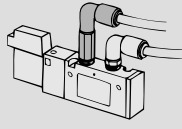

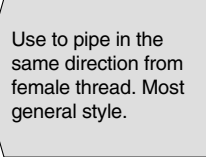

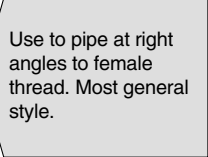

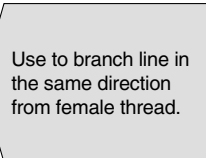

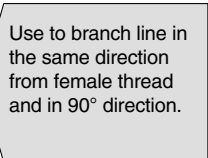

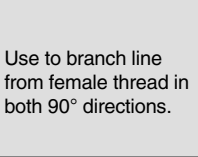

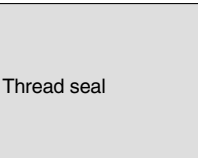
### Specifications

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

Model			
<b>Hex. socket head male connector</b> <b>KQ2S</b> P. 36 	Internal hex. allows thread connection by using an allen wrench for confined spaces. 	<b>Universal male elbow</b> <b>KQ2V</b> P. 36 	Universal male elbow allows thread connection by using a socket wrench for confined spaces. 
<b>45° male elbow</b> <b>KQ2K</b> P. 36 	Use to pipe in 45° direction from female thread. Model in-between of male connector and male elbow. 	<b>Extended male elbow</b> <b>KQ2W</b> P. 36 	Basically, it is used together with male elbow. Different point is that it is used for fittings to avoid with interfering with each other by making the piping two-level. 
<b>Male connector</b> <b>KQ2H</b> P. 34 	Use to pipe in the same direction from female thread. Most general style. 	<b>Male elbow</b> <b>KQ2L</b> P. 34 	Use to pipe at right angles to female thread. Most general style. 
<b>Branch "Y"</b> <b>KQ2U</b> P. 35 	Use to branch line in the same direction from female thread. 	<b>Male run tee</b> <b>KQ2Y</b> P. 35 	Use to branch line in the same direction from female thread and in 90° direction. 
		<b>Male branch tee</b> <b>KQ2T</b> P. 34 	Use to branch line from female thread in both 90° directions. 
		<b>Gasket</b> <b>KQG</b> P. 36 	Thread seal 

- K
- M
- H
- D
- MS
- T
- VMG

## How to Order

**KQ 2 H 06 - U01**

- One-touch fittings**
- Product's color**

Symbol	Body	Release button
2	White	Light gray
Nil	Black	Blue
- Applicable tubing O.D.**

04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16
- Port size**

Thread connection	U01	Uni 1/8
	U02	Uni 1/4
	U03	Uni 3/8
	U04	Uni 1/2
- Model**

H	Male connector	T	Male branch tee
S	Hex. socket head male connector	Y	Male run tee
L	Male elbow	U	Branch
K	45° male elbow		
V	Universal male elbow		
W	Extended male elbow		

**How to Order Gasket**

**KQG - U01**

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

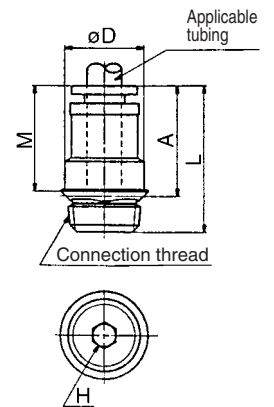
U01	Uni 1/8
U02	Uni 1/4
U03	Uni 3/8
U04	Uni 1/2

# Series KQ2

## <Metric size> Hexagon Socket Head Male Connector: KQ2S



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	H (width across flats)	øD	L	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)	
								Nylon	Urethane		
4	1/8	KQ2S04-U01	3	10	23.5	18.5	16	4.1	3.6	7	
6	1/8	KQ2S06-U01	4	11.8	24	19	17	10.0	9.9	9	
	1/4	KQ2S06-U02						10.7	10.0	12	
8	1/8	KQ2S08-U01	5	14	27.5	22.5	18.5	17.2	16.2	12	
	1/4	KQ2S08-U02	6					28		22	14
	3/8	KQ2S08-U03	17					27.5		21.5	24
10	1/8	KQ2S10-U01	5	17	30	25	21	17.2	10.0	18	
	1/4	KQ2S10-U02	8					29		23	17
	3/8	KQ2S10-U03	21					28.5		22.5	19
	1/2	KQ2S10-U04	21					29		21	36
12	1/4	KQ2S12-U02	8	19	30.5	25	22	46.0	44.5	20	
	3/8	KQ2S12-U03	9					31		25	22
	1/2	KQ2S12-U04	21					28.5		20.5	30

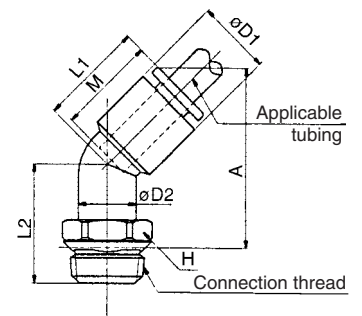


\* Reference dimensions after Uni thread installation.

## <Metric size> 45° Male Elbow: KQ2K



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)
										Nylon	Urethane	
4	1/8	KQ2K04-U01	10	10.4	10	17	18.5	30	16	3.4	3.4	6
	1/4	KQ2K04-U02	14				20.5	30.5				13
6	1/8	KQ2K06-U01	10	12.8	10	18	18.5	31	17	8.7	8.7	7
	1/4	KQ2K06-U02	14				20.5	32				13
	3/8	KQ2K06-U03	17				21.5	32				23
8	1/8	KQ2K08-U01	12	15.2	12	20.5	20	35	18.5	19.7	13.6	11
	1/4	KQ2K08-U02	14				22	36				15
	3/8	KQ2K08-U03	17				23	36				24
10	1/8	KQ2K10-U01	17	18.5	17	24	22	38	21	21.6	14.9	24
	1/4	KQ2K10-U02					23.5	40.5				21
	3/8	KQ2K10-U03					24	41				25
	1/2	KQ2K10-U04					22	27				42
12	1/4	KQ2K12-U02	17	20.9	17	25	24	42	22	44.5	35.1	23
	3/8	KQ2K12-U03					24.5	42.5				27
	1/2	KQ2K12-U04					22	27.5				43.5

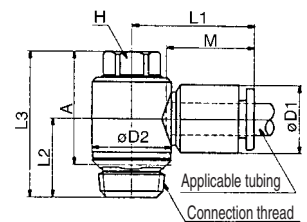


\* Reference dimensions after Uni thread installation.

## <Metric size> Universal Male Elbow: KQ2V



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	H (width across flats)	øD1	øD2	L1	L2	L3	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)
											Nylon	Urethane	
4	1/8	KQ2V04-U01	8	10.4	13.4	22	13.5	25.5	20.5	16	2.9	2.9	12
6	1/8	KQ2V06-U01	8	12.8	13.4	24	13.5	25.5	20.5	17	7.5	7.5	13
	1/4	KQ2V06-U02	10										15.4
8	1/8	KQ2V08-U01	12	15.2	17.6	28.5	14.5	27.5	22.5	18.5	11.2	24	22
	1/4	KQ2V08-U02	16.5				29.5	23.5	30				25
	3/8	KQ2V08-U03	14				20.6	27.5	18.5				34
10	1/4	KQ2V10-U02	14	18.5	20.6	31	18.5	34	28	21	27	20.3	35
	3/8	KQ2V10-U03											38
12	3/8	KQ2V12-U03	17	20.9	25.2	34	20	36.5	30.5	22	39	30.8	52
	1/2	KQ2V12-U04					22.5	39.5	31.5				62



\* Reference dimensions after Uni thread installation.

## <Metric size> Gasket: KQG



Connection thread Uni One-touch fittings	Model	øD	Weight (g)
1/8	KQG-U01	11.8	0.12
1/4	KQG-U02	15.3	0.19
3/8	KQG-U03	18.7	0.23
1/2	KQG-U04	23.4	0.34

