

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

Tubing material	FEP, PFA, Nylon, Soft nylon <sup>(1)</sup> , Polyurethane
Tubing 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.)

# Series KQ2

## Universal Female Elbow: KQ2VF

<M5>



<R>

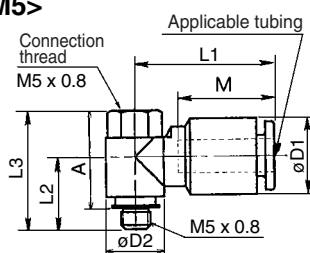


Applicable tubing O.D. (mm)	Connection thread Rc R	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A*	M	Mass (g)
4	M5 x 0.8	KQ2VF04-M5	8	10.4	9.8	20.5	11	20	16	16	6
	1/8	KQ2VF04-01S	14		13.4	22	14.6	28.6	25.5		19
6	M5 x 0.8	KQ2VF06-M5	8	12.8	9.8	23.5	12.5	20	16	17	7
	1/8	KQ2VF06-01S	14		13.4	24.5	14.6	28.6	25.5		19
	1/4	KQ2VF06-02S	17		17.6	25	19.5	38	32.5		36
8	1/8	KQ2VF08-01S	17	15.2	17.6	28.5	16.1	30.1	27	18.5	29
	1/4	KQ2VF08-02S	22		19.5	38	32.5	39	37		37
	3/8	KQ2VF08-03S	22		25.2	29.5	24.4	44.4	39		66
10	1/4	KQ2VF10-02S	19	18.5	20.6	31.5	21.5	40.5	35	21	48
	3/8	KQ2VF10-03S	22		25.2	34	23.4	44.4	39		68
	3/8	KQ2VF12-03S	22		25.2	34	23.4	44.4	39		70
12	1/2	KQ2VF12-04S	24	20.9	27	35	24.6	49.1	42	22	93

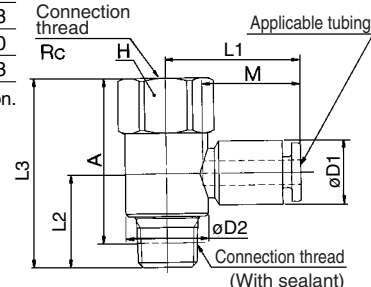
\* Reference dimensions after R thread installation.

Note) øD1: Max. diameter

<M5>



<R>



## Female Elbow: KQ2LF

<M5, M6>



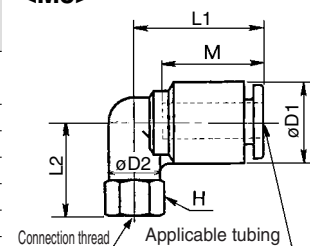
<Rc>



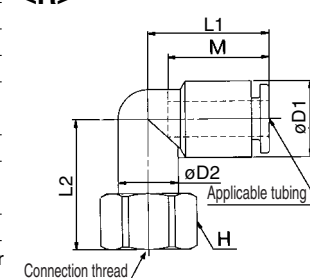
Applicable tubing O.D. (mm)	Connection thread Rc	Model	H (width across flats)	(Note) øD1	øD2	L1	L2	M	Effective area (mm²)		Mass (g)
									Nylon	Urethane	
4	M5 x 0.8	KQ2LF04-M5	8	10.4	8	18.5	14.5	16	3.5	3.5	5
	M6 x 1.0	KQ2LF04-M6	14		15.5		4.2		4.2	13	
	1/8	KQ2LF04-01	14		21					20	
	1/4	KQ2LF04-02	17		24.5					20	
6	M5 x 0.8	KQ2LF06-M5	8	12.8	8	20.5	15	17	3.5	3.5	5
	M6 x 1.0	KQ2LF06-M6	14		16		11.4		9.0	6	
	1/8	KQ2LF06-01	14		22					13	
	1/4	KQ2LF06-02	17		25.5					20	
	3/8	KQ2LF06-03	19		26					20	
8	1/8	KQ2LF08-01	14	15.2	12	23.5	23	18.5	21.6	14.9	16
	1/4	KQ2LF08-02	17		26.5	22					
	3/8	KQ2LF08-03	19		27	23					
10	1/4	KQ2LF10-02	17	18.5	17	26.5	28	21	21.6	14.9	27
	3/8	KQ2LF10-03	19		28.5	35.2	25.0		46		
	1/2	KQ2LF10-04	24		32.5						
12	1/4	KQ2LF12-02	17	20.9	17	28.5	29.5	22	50.2	39.7	29
	3/8	KQ2LF12-03	19		30	48					
	1/2	KQ2LF12-04	24		34	48					

Note) øD1: Max. diameter

<M5>



<R>



## Double Universal Male Elbow: KQ2VD



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A*	M	P	Mass (g)
4	1/8	KQ2VD04-01S	14	10.4	13.4	22	18.5	40.1	37	16	13.4	23
	1/4	KQ2VD04-02S	17				21.5	43.5	38			29
	3/8	KQ2VD04-03S	17				23.5	44.9	40			42
6	1/8	KQ2VD06-01S	14	12.8	13.4	24.5	18.5	40.1	37	17	13.4	24
	1/4	KQ2VD06-02S	17				21.5	43.5	38			30
	3/8	KQ2VD06-03S	17				23.5	44.9	40			42
8	1/8	KQ2VD08-01S	19	15.2	17.6	28.5	21	47.1	44	18.5	15.9	53
	1/4	KQ2VD08-02S	21				24	50.5	45			51
	3/8	KQ2VD08-03S	21				25	50.9	45.5			60
	1/2	KQ2VD08-04S	21				28.5	54.6	47.5			82
10	1/4	KQ2VD10-02S	21	18.5	20.6	31.5	26.5	57.5	52	21	19.2	71
	3/8	KQ2VD10-03S	21				27.5	57.9	53			74
	1/2	KQ2VD10-04S	21				30.5	61.1	54			91
12	1/4	KQ2VD12-02S	26	20.9	25.2	34	28.5	64	58.5	22	21.6	118
	3/8	KQ2VD12-03S	26				29.5	64.4	59			113
	1/2	KQ2VD12-04S	26				32.5	67.6	60			125

\* Reference dimensions after R thread installation.

Note) øD1: Max. diameter

