

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 ⁽¹⁾ , 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

Fluid		Air/Water ⁽²⁾
Operating pressure range ⁽³⁾		-100 kPa to 1 MPa
Proof pressure		3 MPa
Ambient and fluid temperature		-5 to 60°C, Water: 0 to 40°C (No freezing)
Thread	Mounting section	JIS B0203 (Taper thread for piping) JIS B0205 (Metric coarse thread)
	Nut section	JIS B0205 (Metric fine thread)
Seal on the threads		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.)

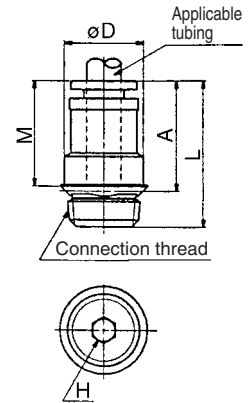
Hexagon Socket Head Male Connector: KQ2S



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	H (width across flats)	(Note)	L	A*	M	Effective area (mm²)		Mass (g)
				øD1				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		13.5		18		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		23.3		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		39.0	26.6	17
	3/8	KQ2S10-U03		28.5	22.5	19				
	1/2	KQ2S10-U04		21	29	21				
12	1/4	KQ2S12-U02	8	19	30.5	25	22	46.0	44.5	20
	3/8	KQ2S12-U03	9	31		60.0		22		
	1/2	KQ2S12-U04		21	28.5			20.5		30

* Reference dimensions after Uni thread installation.

Note) øD: Max. diameter



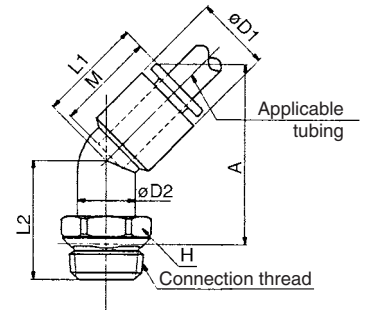
45° Male Elbow: KQ2K



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	H (width across flats)	(Note)	øD1	øD2	L1	L2	A*	M	Effective area (mm²)		Mass (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					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					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		30.9	23.2	25	
	1/2	KQ2K10-U04					22	27				42	45
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	46

* Reference dimensions after Uni thread installation.

Note) øD1: Max. diameter



Universal Male Elbow: KQ2V



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	H (width across flats)	(Note)	øD1	øD2	L1	L2	L3	A*	M	Effective area (mm²)		Mass (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	23.5	15.5	28	22				21	
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	28		14.3	47	36	
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.

Note) øD1: Max. diameter

