

Inch Size One-touch Fittings

Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

KQ2 Series

Guide

Chuck

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

The chuck provides secure retention and the collet increases the holding force on the tube.

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.

Guide

Chuck

Body

Release button (Orange)

Requires little force for removal.

Releases the chuck collet to remove the tube as well as to prevent the chuck from biting too deeply into the tubing.

Body

O-ring

Stud

Effective when piping in a confined space.

Body part rotates allowing for positioning.

Connection thread

UNF, NPT

Release button (Orange)

Seal

* Fittings without thread portion, and with all resin body material are copper free specification.

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



Made to Order
(Refer to page 156 for details.)

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø1/8", ø5/32", ø3/16", ø1/4", ø5/16", ø3/8", ø1/2"

Specifications

Fluid		Air, Water*1 *2
Operating pressure range*3		-100 kPa to 1 MPa
Proof pressure (at 23°C)		3 MPa
Ambient and fluid temperature		-5 to 60°C, Water: 0 to 40°C (No freezing)
Thread	Mounting section	ANSI/ASME1.20.1 (NPT thread) JIS B0208 (UNF thread)
	Nut section	JIS B0208 (UNF thread)
Seal on the threads		With sealant

*1 The surge pressure must be under the maximum operating pressure.

*2 Deionized water is not recommended for use as it may affect the material used in the fittings. In addition, it is known to degrade the water quality.

*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
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR

Inch Size One-touch Fittings **KQ2 Series**

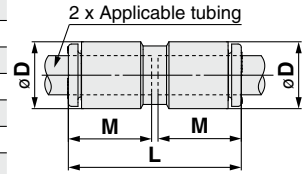
Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

Dimensions

Straight Union: KQ2H



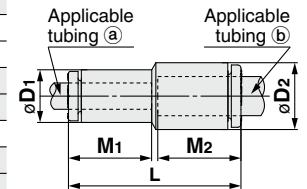
Applicable tubing O.D. [inch]	Model	øD	L	M	Effective area [mm ²]		Min. port size	Weight [g]
					Nylon	Urethane		
ø1/8	KQ2H01-00A	7.1	27.6	13.3	3.4	2.9	2.5	1.4
ø5/32	KQ2H03-00A	8.2	27.6	13.3	5.6	4	3	1.6
ø3/16	KQ2H05-00A	9.1	27.6	13.3	7.8	6.5	3.5	1.9
ø1/4	KQ2H07-00A	11.1	27.6	13.3	13.5	11.5	4.6	2.4
ø5/16	KQ2H09-00A	13.2	29.4	14.2	26.1	18	6	3.7
ø3/8	KQ2H11-00A	15.4	32.2	15.6	35.3	29.1	7	5.2
ø1/2	KQ2H13-00A	19.3	35	17	66	51.7	9.6	8.7



Different Diameter Straight: KQ2H



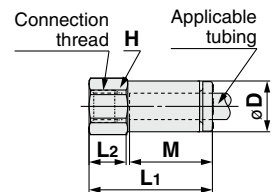
Applicable tubing O.D. [inch]		Model	øD1	øD2	L	M1	M2	Effective area [mm ²]		Min. port size	Weight [g]
(a)	(b)							Nylon	Urethane		
ø1/8	ø5/32	KQ2H01-03A	7.1	8.2	27.6	13.3	13.3	3.4	2.9	2.5	1.5
	ø1/4	KQ2H01-07A	7.1	11.1	27.6	13.3	13.3	3.4	2.9	2.5	2
ø5/32	ø3/16	KQ2H03-05A	8.2	9.1	27.6	13.3	13.3	5.6	5.6	3	1.8
	ø1/4	KQ2H03-07A	8.2	11.1	27.6	13.3	13.3	5.6	5.6	3	2.1
ø3/16	ø1/4	KQ2H05-07A	9.1	11.1	27.6	13.3	13.3	7.8	6.5	3.5	2.2
ø1/4	ø5/16	KQ2H07-09A	11.1	13.2	28.5	13.3	14.2	13.5	11.5	4.6	3.2
	ø3/8	KQ2H07-11A	11.1	15.4	29.9	13.3	15.6	13.5	11.5	4.6	4.1
ø5/16	ø3/8	KQ2H09-11A	13.2	15.4	30.8	14.2	15.6	26.1	18	6	4.7
	ø1/2	KQ2H09-13A	13.2	19.3	32.2	14.2	17	26.1	18	6	6.6
ø3/8	ø1/2	KQ2H11-13A	15.4	19.3	33.6	15.6	17	35.3	29.1	7	7.3



Female Connector: KQ2F



Applicable tubing O.D. [inch]	Connection thread UNF, NPT	Model	H (Width across flats)	øD	L1	L2	M	Effective area [mm ²]		Min. port size	Weight [g]
								Nylon	Urethane		
ø1/8	10-32UNF	KQ2F01-32□	7	6.9	19.7	5.7	13.3	3	2.5	2.5	3.4
	1/8	KQ2F01-34□	14.29	6.9	25	9.5	13.3	3	2.5	2.5	13.4
	1/4	KQ2F01-35□	17.46	6.9	29.8	13.3	13.3	3	2.5	2.5	24.4
ø5/32	10-32UNF	KQ2F03-32□	8	7.9	19.5	5.7	13.3	4	4	3	4.5
	1/8	KQ2F03-34□	14.29	7.9	24.8	9.5	13.3	5.6	4	3	13.7
	1/4	KQ2F03-35□	17.46	7.9	29.7	13.3	13.3	5.6	4	3	24.7
ø1/4	10-32UNF	KQ2F07-32□	11.11	10.9	17.7	5.5	13.3	10.1	10.1	3.9	6.7
	1/8	KQ2F07-34□	14.29	10.9	24.4	9.5	13.3	13	11.5	4.6	14.2
	1/4	KQ2F07-35□	17.46	10.9	29.2	13.3	13.3	13	11.5	4.6	25.1
	3/8	KQ2F07-36□	22.23	10.9	30.5	13.2	13.3	13	11.5	4.6	38.7
ø5/16	1/8	KQ2F09-34□	14.29	13	24.8	9.2	14.2	26.1	18	6	15.2
	1/4	KQ2F09-35□	17.46	13	29.7	11.8	14.2	26.1	18	6	26.2
	3/8	KQ2F09-36□	22.23	13	31	12.4	14.2	26.1	18	6	39.8
ø3/8	1/4	KQ2F11-35□	17.46	15.1	30.5	11.8	15.6	35.3	29.1	8	27.2
	3/8	KQ2F11-36□	22.23	15.1	31.8	12.4	15.6	35.3	29.1	8	40.7
	1/2	KQ2F11-37□	23.81	15.1	34.9	15.8	15.6	35.3	29.1	8	45.6
ø1/2	3/8	KQ2F13-36□	22.23	19	32.6	12.4	17	66	51.7	10	43.8
	1/2	KQ2F13-37□	23.81	19	35.7	15.8	17	66	51.7	10	48.6



□: A (Brass), N (Brass + Electroless nickel plating)

Round Type

Metric Size M, R, Rc
Inch Size UNF, NPT

Sealant/Gasket Seal

Inch Size M, R, Rc
Metric Size G

Metric Size R, Rc
Inch Size NPT

Face Seal

Inch Size R
Metric Size Uni

Inch Size Uni

Gasket Seal

Inch Size Uni