

Metric Size One-touch Fittings

Applicable Tubing: Metric Size, Connection Thread: G

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.

Face seal method

Seal ring

Piping installability is improved by changing to the face seal structure.

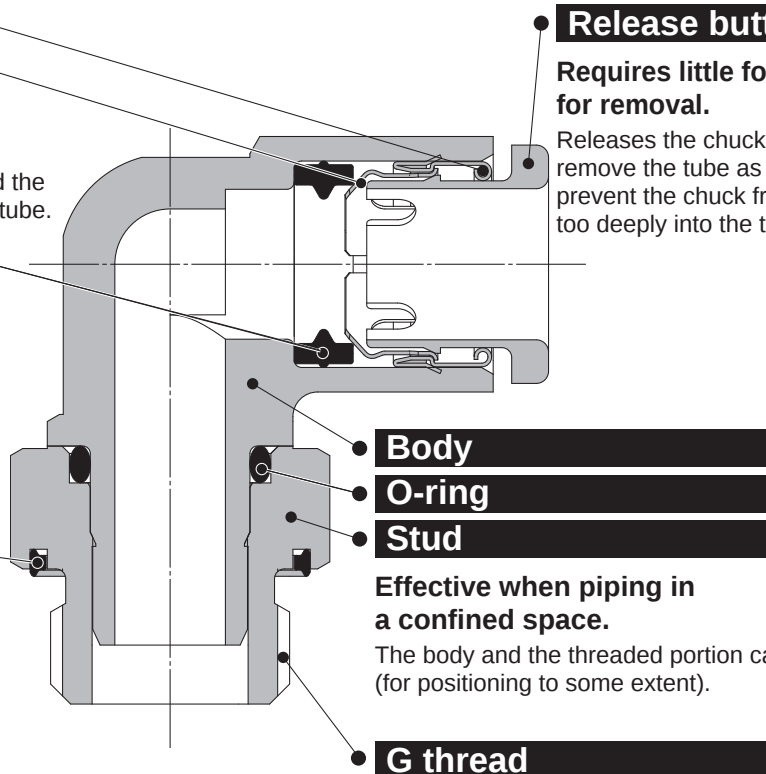


Face seal

Release button

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.

The body and the threaded portion can rotate (for positioning to some extent).

G thread

Applicable to parallel pipe thread (G).

Drastically reduces screw-in time with the face seal method.



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	Ø 4, Ø 6, Ø 8, Ø 10, Ø 12, Ø 16

Specifications

Fluid	Air, Water*1	
Operating pressure range*2	-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	ISO 16030 (Parallel pipe thread)
	Nut section	JIS B0205 (Metric fine thread)
Sealant on the threads		Seal ring

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

*2 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
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring, Seal ring	NBR

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Dimensions

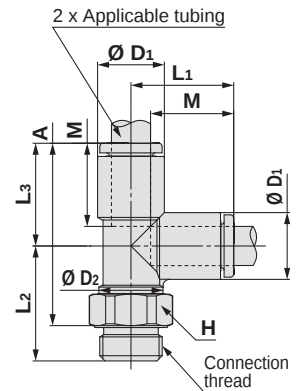
Male Run Tee: KQ2Y (Face seal)



Applicable tubing O.D. [mm]	Connection thread G	Model	H (Width across flats)	*1 Ø D1	Ø D2	L1	L2	L3	A	M	Effective area [mm ²]		Min. port size	Weight [g]
											Nylon	Urethane		
Ø 4	1/8	KQ2Y04-G01□	12	8.2	10	15.3	16.8	15.3	26.6	13.3	6.4	4.4	3	7
	1/4	KQ2Y04-G02□	17	8.2	10	15.3	20.3	15.3	29.1	13.3	6.4	4.4	3	17.5
Ø 6	1/8	KQ2Y06-G01□	12	10.4	10	16.3	17.9	16.3	28.7	13.3	13.4	10.6	4.5	7.7
	1/4	KQ2Y06-G02□	17	10.4	10	16.3	21.4	16.3	31.2	13.3	13.4	10.6	4.5	18.2
	3/8	KQ2Y06-G03□	21	10.4	10	16.3	22.4	16.3	31.2	13.3	13.4	10.6	4.5	29.9
Ø 8	1/8	KQ2Y08-G01□	12	13.2	10	18.2	19.3	18.2	32	14.2	13.4	13.4	4.5	9.5
	1/4	KQ2Y08-G02□	17	13.2	12	18.2	22.8	18.2	34.5	14.2	25.6	17.7	6	17.7
	3/8	KQ2Y08-G03□	21	13.2	12	18.2	23.8	18.2	34.5	14.2	25.6	17.7	6	29.7
Ø 10	1/8	KQ2Y10-G01□	12	15.9	12	20.6	22.5	20.6	37.5	15.6	40	28.4	6	13.2
	1/4	KQ2Y10-G02□	17	15.9	17	20.6	24.6	20.6	38.6	15.6	40	28.4	7.5	20.3
	3/8	KQ2Y10-G03□	21	15.9	17	20.6	27.7	20.6	40.7	15.6	40	28.4	7.5	25.4
	1/2	KQ2Y10-G04□	27	15.9	17	20.6	29.2	20.6	40.7	15.6	40	28.4	7.5	45.3
Ø 12	1/4	KQ2Y12-G02□	17	18.5	17	23	25.9	23	42.3	17	57.4	45.4	9	23.4
	3/8	KQ2Y12-G03□	21	18.5	17	23	29	23	44.4	17	57.4	45.4	9	28.6
	1/2	KQ2Y12-G04□	27	18.5	17	23	30.4	23	44.4	17	57.4	45.4	9	48.5
Ø 16	3/8	KQ2Y16-G03□	21	23.8	21	28.6	33.1	28.6	54.2	20.6	81	60	11	42.7
	1/2	KQ2Y16-G04□	27	23.8	21	28.6	33.8	28.6	53.4	20.6	113	60	13	66.2

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

*1 Ø D1 is maximum diameter.



Bulkhead Connector: KQ2E



Applicable tubing O.D. [mm]	Connection thread G	Model	T (M)	H1 (Width across flats)	H2 (Width across flats)	L1	L2	Mounting hole	M	Effective area [mm ²]		Min. port size	Weight [g]
										Nylon	Urethane		
Ø 4	1/8	KQ2E04-G01□	M12 x 1	14	14	25.1	10.7	13	13.3	5.6	4	3	21.3
	1/4	KQ2E04-G02□	M12 x 1	17	14	30.7	16.3	13	13.3	5.6	4	3	31.5
Ø 6	1/8	KQ2E06-G01□	M14 x 1	17	17	24.5	10.1	15	13.3	13.1	10.4	4.5	29.8
	1/4	KQ2E06-G02□	M14 x 1	17	17	30	15.6	15	13.3	13.1	10.4	4.5	32.8
	3/8	KQ2E06-G03□	M14 x 1	21	17	32	17.6	15	13.3	13.1	10.4	4.5	45.5
Ø 8	1/8	KQ2E08-G01□	M16 x 1	17	19	24.7	7.3	17	14.2	26.1	18	6	30.9
	1/4	KQ2E08-G02□	M16 x 1	17	19	30	12.6	17	14.2	26.1	18	6	33.5
	3/8	KQ2E08-G03□	M16 x 1	21	19	33.1	15.7	17	14.2	26.1	18	6	46.1
Ø 10	1/4	KQ2E10-G02□	M20 x 1	22	24	31	11.6	21	15.6	41.5	29.5	7.5	66.7
	3/8	KQ2E10-G03□	M20 x 1	22	24	32.5	13.1	21	15.6	41.5	29.5	7.5	61.6
Ø 12	3/8	KQ2E12-G03□	M22 x 1	24	27	33.5	13.1	23	17	58.3	46.1	9	70.4
	1/2	KQ2E12-G04□	M22 x 1	27	27	39.9	19.5	23	17	58.3	46.1	9	94
Ø 16	3/8	KQ2E16-G03□	M28 x 15	30	32	35.9	13	29	20.6	96	67	13	127.6
	1/2	KQ2E16-G04□	M28 x 15	30	32	41	18.1	29	20.6	113	67	13	137.2

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

