RoHS Guide Release Button (White) Chuck Requires little force for removal. Large retaining force Releases the chuck collet to remove The chuck provides secure retention and the tube as well as to prevent the the collet increases the holding force on chuck from biting too deeply into the the tube. Body O-ring Seal Stud Can be used for a wide range of pressures from a low vacuum up Effective when piping in a to a pressure of 1 MPa. confined space. The use of a special profile ensures Body part rotates allowing for sealing and reduces resistance when positioning. the tube is inserted. **Connection Thread** M, R, Ro Guide Release Button (White) Chuck

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

Body

- Applicable tubing—Metric size
- Applicable tubing material PFA, Polyurethane



Applicable Tubing

rubing material (100)	PFA, Polyurethane
Tubing O.D.	ø2, ø3.2, ø4, ø6, ø8, ø10, ø12, ø16
Note) FEP, nylon and soft nylon tubing	can also be used. However, the degree of clean performance will be reduced.

Seal

Color

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

00.01							
Series	Body	Release button					
Series 10-KQ2	White	White					

Specifications

Fluid		Air, Water Note 1, 2)			
Operating press	sure range Note 3)	-100 kPa to 1 MPa			
Proof pressure	(at 23°C)	3 MPa			
Ambient and flu	id 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 thre	ads	With seal or none			
Grease		Fluorine based grease			
Cleanliness clas	ss (ISO class)	Class 5			

- Note 1) The surge pressure must be under the maximum operating pressure.
- Note 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.
- 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 Electroless nickel plated, PBT, PP, Stainless steel 303
Stud	C3604 (Thread portion) Electroless nickel plated, Stainless steel 303 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring	NBR
Onalist	Otalista as at all OOA NIDD

Metric Size One-touch Fittings

Variations



P.1129

10-KQ2S



Internal hexagon socket allows tightening with a hexagon wrench in confined spaces.



Universal male elbow

10-KQ2V P.1134



Hexagon head of the body allows tightening with a box wrench in confined spaces.



45° male elbow

10-KQ2K



Use to pipe a female thread at a 45° angle. The model between the male connector and male elbow.



Extended male elbow

10-KQ2W



Basically, it is used together with male elbow. Different point is that it is used for fittings to avoid interfering with each other by making the piping multi-level.



Bulkhead union

10-KQ2E



Use to connect tubing through a panel, etc.



Bulkhead connector P.1150

10-KQ2E



Use to connect male thread and tubing through a panel, etc.



Nipple

10-KON

P 1152

P 1150

Use to connect One-touch fittings.



Reducer nipple

10-KQN

P 1152

Use to connect Onetouch fittings of different sizes.



Universal female elbow

10-KQ2VF



Use to branch a male or female thread at a 90° angle. Multiple connections possible.

Branch universal female elbow

10-KQ2ZF



Use to two-branch a male or female thread at a 90° angle. Multiple connections possible.

P.1131

Male connector

10-KQ2H



Use to pipe a female thread. Most general model.

Cross

10-KQ2TW P.1143

four-branch line.

Reducer elbow

10-KQ2L

Use to change the tube direction from One-touch fittings by 90° and to reduce

Female connector

P.1128

10-KQ2F



Use to pipe a male thread of a pressure gauge, etc.

Male elbow 10-KQ2L

P.1130 Use to pipe a female thread at right angles. Most



Different diameter cross

10-KQ2TX



Use to branch tubing with size reduced at both 90° angles.

Straight union

10-KQ2H

P.1127

Use to connect tubing in the same direction

Union elbow

10-KQ2L

P.1131

Use to connect tubing at right angles.

Male branch tee

10-KQ2T P.1141 Use to branch a female thread at both 90° angles.

Different diameter straight

10-KQ2H



Use to connect tubing of different

Plug-in elbow

10-KQ2L P.1131 Use to change the tube direction from One-touch fittings by 90°.

Union tee



Use to branch tubing at both 90° angles.

P.1128





Hexagon head of the

tightening with a box wrench. Use for

branch connections

Use to four-branch a

female thread at right

angles. Two individual

parts rotate 360°.

body allows

10-KQ2X

Double plug-in "Y"

10-KQ2XD

P.1149

P.1149

SMC

Use to branch One-

Use to four-branch

One-touch fittings.

reduced

touch fittings with size

10-KQ2Z

Double branch

10-KQ2ZD

universal male elbow

(0,0

P.1137

P.1138

(000

Pressure Switches/ Pressure Sensors

low Control Equipment

Mount onto the

to applications.

release button and

use different colors

for piping according

Use to plug unused

One-touch fittings.

10-KQ2C

Plug

10-KQP

00000

P.1152

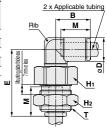
P.1151

Dimensions

Bulkhead Male Elbow: 10-KQ2LE -



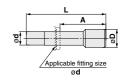
Applicable tubing O.D. (mm)	Model	T (M)		H2 (Width across flats)	В	E	ø D	Mounting hole	М	Effective area (mm²) Urethane	Min. port size	Weight (g)	With a rib
ø4	10-KQ2LE04-00N	M12 x 1	14	14	14.8	28.5	8.2	13	13.3	4.2	3	21.2	•
ø 6	10-KQ2LE06-00N	M14 x 1	17	17	15.5	29.6	10.4	15	13.3	9	4.5	29.4	_
ø 8	10-KQ2LE08-00N	M16 x 1	17	19	17.2	32.3	13.2	17	14.2	14.9	6	30.4	•
ø10	10-KQ2LE10-00N	M20 x 1	22	24	19.3	37.9	15.9	21	15.6	25	7.5	53.5	•
ø12	10-KQ2LE12-00N	M22 x 1	24	27	21.5	40.8	18.5	23	17	39.7	9	61	•



Plug: 10-KQP -



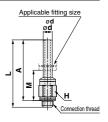
Applicable fitting size ød	Model	ø D	L	Α	Weight (g)
ø 2	10-KJP-02	3	17	5.1	0.1
ø3.2	10-KQP-23	5	31.5	18.2	1
ø 4	10-KQP-04	6	32	18.7	1
ø 6	10-KQP-06	8	35	21.7	1
ø 8	10-KQP-08	10	39	24.8	2
ø10	10-KQP-10	12	43	27.4	3.5
ø12	10-KQP-12	14	45.5	28.5	5
ø16	10-KQP-16	20.9	47	26.4	8



Adapter: 10-KQ2N (Gasket seal) -



Applica fitting		Model	(Width across flats)	L	А	М	Min. port size	Weight (g)
ø4	M5 x 0.8	10-KQ2N04-M5N	7	29.7	26.7	13.4	2.5	2.4
ø€	M5 x 0.8	10-KQ2N06-M5N	7	29.7	26.7	13.4	2.5	2.6

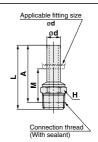


Adapter: 10-KQ2N (Sealant) ----



Applicable fitting size	Connection thread	Model	H (Width		A *	М	Min.	Weight
ød	R	1110001	across flats)	_	_		size	(g)
ø 4	1/8	10-KQ2N04-01NS	10	28.3	25.2	11.9	2.5	4
ø 6	1/8	10-KQ2N06-01NS	10	28.3	25.2	11.9	4	4.1
ØO	1/4	10-KQ2N06-02NS	14	32.8	28.1	14.8	4	13.6
ø 8	1/4	10-KQ2N08-02NS	14	35.9	31.2	17	6	15.7
90	3/8	10-KQ2N08-03NS	17	36	30.9	16.7	6	22.7
ø10	3/8	10-KQ2N10-03NS	17	40.6	35.5	19.9	7.5	19.1





Series 10-KQ2 Made to Order

Please contact SMC for detailed dimensions, specifications, and lead times.

1 Made to Order

Symbol	Specifications
10-KQ2□08-01□ Q □	Effective area is interchangeable with the current product (KQ series). Applicable model: Male elbow, 45° male elbow, Female elbow, Extended male elbow, Male branch tee, Male run tee Applicable tubing O.D./Port size: 86/81/38 Thread material/Surface treatment: Brass + Electroless nickel plating Example) 10-KQ2L08-01AQS

