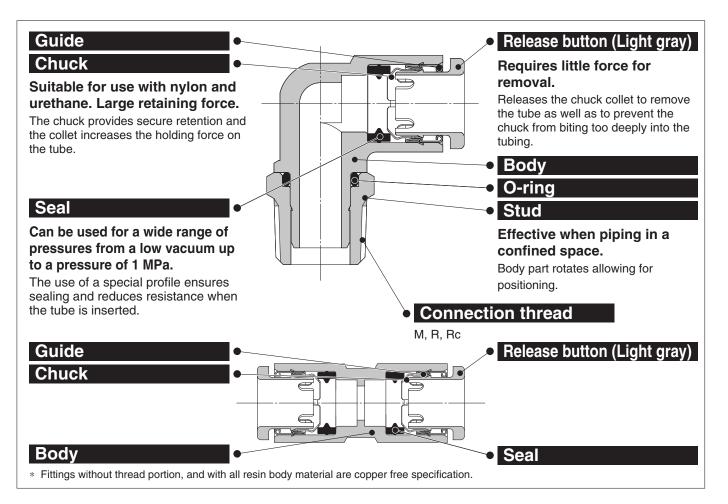
Metric Size One-touch Fittings

Applicable Tubing: Metric Size, Connection Thread: M, R, Rc

KQ2 Series



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





Applicable Tubing

on, Polyurethane
10, ø12, ø16

Specifications

Fluid		Air, Water ^{*1}				
Operating press	ure range ^{*2}	–100 kPa to 1 MPa				
Proof pressure (at 23°C)	3 MPa				
Ambient and flui		–5 to 60°C, Water: 0 to 40°C				
Ambient and flui	la temperature	(No freezing)				
	Mounting costion	JIS B0203 (Taper thread for piping)				
Thread	Mounting section	JIS B0205 (Metric coarse thread)				
	Nut section	JIS B0205 (Metric fine thread)				
Seal on the threa	ads	With sealant				
*1 The surge pressure m	The surge pressure must be under the maximum operating pressure.					

Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

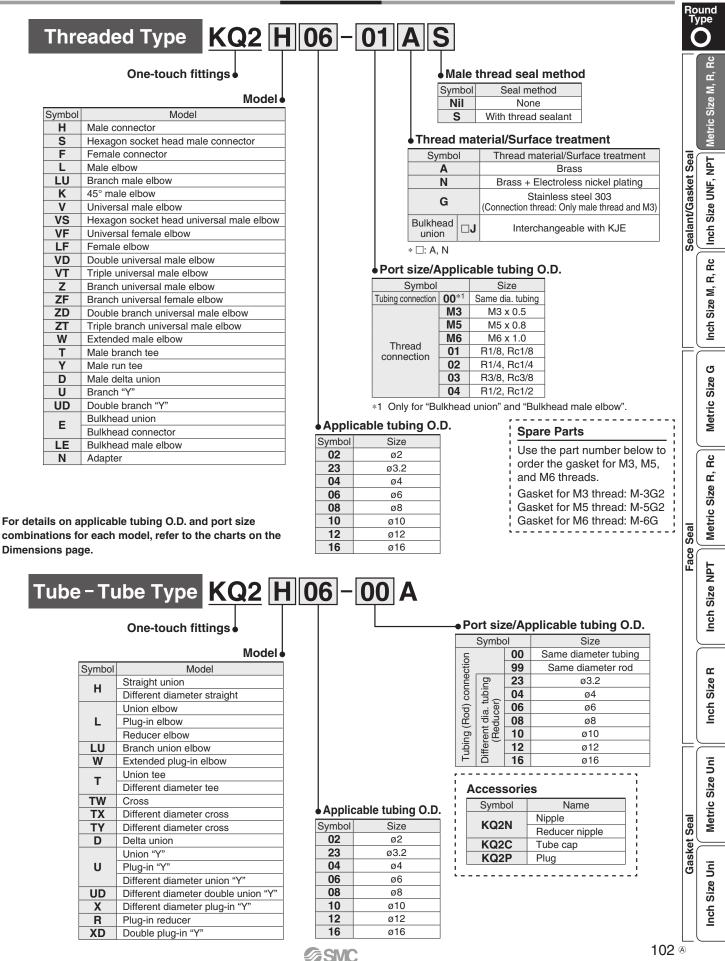
Principal Parts Material

Body	C3604, PBT, PP, Stainless steel 303
Stud	C3604 (Thread portion), Stainless steel 303 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR

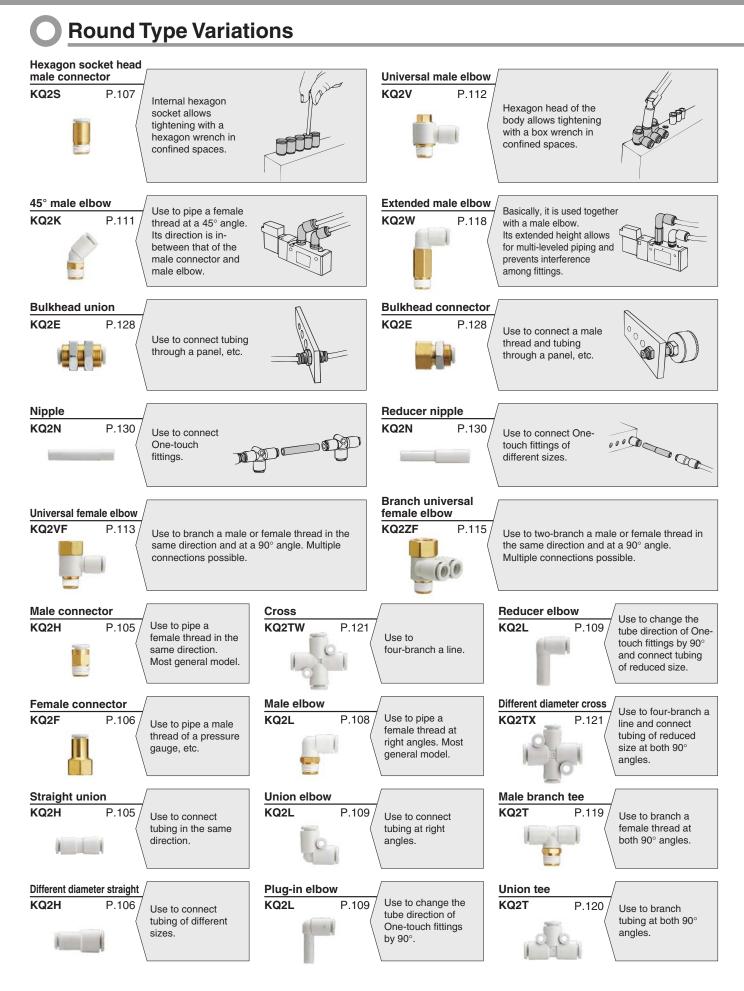
Metric Size One-touch Fittings KQ2 Series

Applicable Tubing: Metric Size, Connection Thread: M, R, Rc

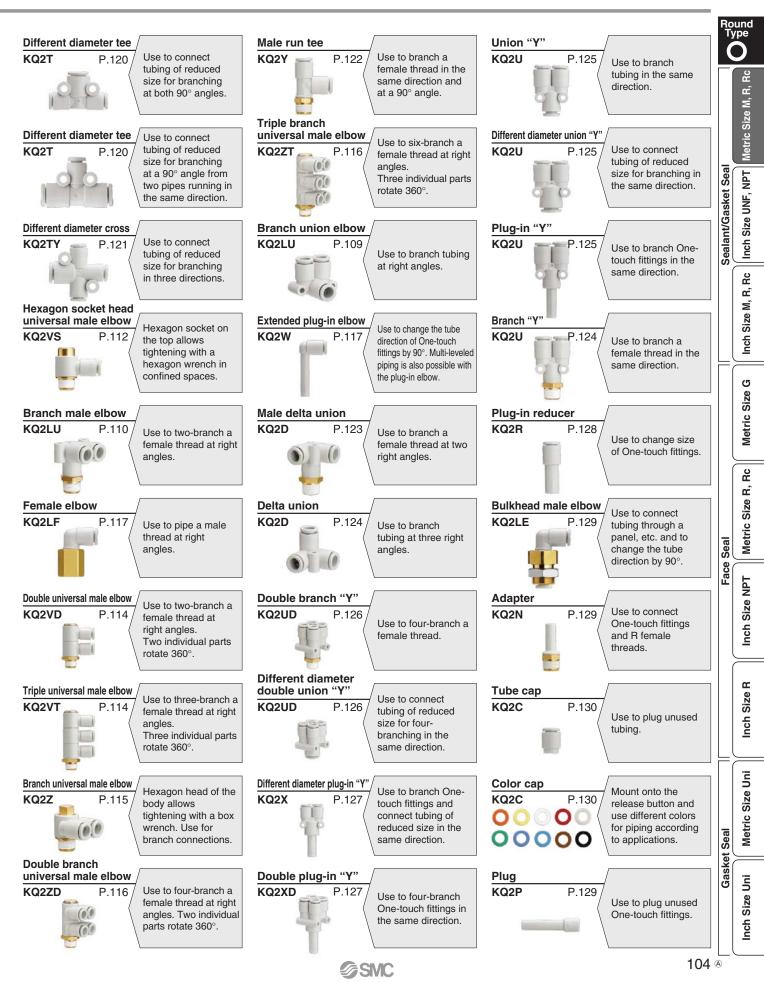
How to Order



Metric Size One-touch Fittings



SMC



CAT.ES50-37D 2020-9

KQ2 Series

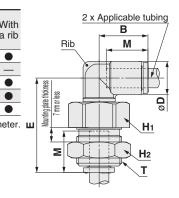
Applicable Tubing: Metric Size, Connection Thread: M, R, Rc

Dimensions

Bulkhead Male Elbow: KQ2LE -

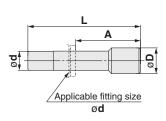


Applicable tubing O.D. [mm]		T (M)	H1 (Width across flats)	H2 (Width across flats)	в	Е	*1 ø D	Mounting hole			ve area m²] Urethane		Weight [g]	With a rib
ø 4	KQ2LE04-00	M12 x 1	14	14	14.8	28.5	8.2	13	13.3	4.2	4.2	3	21.2	
ø 6	KQ2LE06-00	M14 x 1	17	17	15.5	29.6	10.4	15	13.3	11.4	9	4.5	29.4	—
ø 8	KQ2LE08-00	M16 x 1	17	19	17.2	32.3	13.2	17	14.2	21.6	14.9	6	30.4	
ø 10	KQ2LE10-00	M20 x 1	22	24	19.3	37.9	15.9	21	15.6	35.2	25	7.5	53.5	
ø 12	KQ2LE12-00	M22 x 1	24	27	21.5	40.8	18.5	23	17	50.2	39.7	9	61	
□: A (B	A (Brass), N (Brass + Electroless nickel plating) *1 øD is maximum diameter.						neter.							



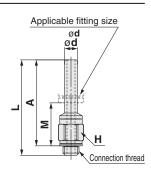
Plug: KQ2P -

Applicable fitting size ød	Model	øD	L	Α	Weight [g]
ø 2	KJP-02	3	17	5.1	0.1
ø 3.2	KQ2P-23	5	31.5	18.2	1
ø 4	KQ2P-04	6	32	18.7	1
ø 6	KQ2P-06	8	35	21.7	1
ø 8	KQ2P-08	10	39	24.8	2
ø 10	KQ2P-10	12	43	27.4	3.5
ø 12	KQ2P-12	14	45.5	28.5	5
ø 16	KQ2P-16	20.9	47	26.4	8



Adapter: KQ2N (Gasket seal) -

	,							
Applicable fitting size Ø d	Connection thread M	Model	H (Width across flats)	L	A	М	Min. port size	Weight [g]
ø 4	M5 x 0.8	KQ2N04-M5	7	29.7	26.7	13.4	2.5	2.4
ø 6	M5 x 0.8	KQ2N06-M5	7	29.7	26.7	13.4	2.5	2.6
: A (Bi	A (Brass), N (Brass + Electroless nickel plating)							

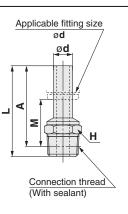


Adapter: KQ2N (Sealant) -

10	
	-
1.00	

Applicable fitting size ø d	Connection thread R	Model	H (Width across flats)	L	A *1	М	Min. port size	Weight [g]
ø 4	1/8	KQ2N04-01□S	10	28.3	25.2	11.9	2.5	4
ø 6	1/8	KQ2N06-01 S	10	28.3	25.2	11.9	4	4.1
ØØ	1/4	KQ2N06-02□S	14	32.8	28.1	14.8	4	13.6
ø 8	1/4	KQ2N08-02□S	14	35.9	31.2	17	6	15.7
ØØ	3/8	KQ2N08-03□S	17	36	30.9	16.7	6	22.7
ø 10	3/8	KQ2N10-03□S	17	40.6	35.5	19.9	7.5	19.1
: A (Brass). N (Brass + Electroless nickel plating) *1 Reference dimensions after								

installation of R thread



KQ2 Series

Made to Order/Clean Series/Spare Parts

Symbol

X17

X29

X34

X39

X94

The following made-to-order products will be provided based on previous models (KQ2 series). Please contact SMC separately.

Rubber material: NBR (With fluorine coating)

Rubber material: NBR (With fluorine coating)

Copper-free (With electroless nickel plating)

Rubber material: NBR (With fluorine coating)

Rubber material: FKM (With fluorine coating)

Clean (Copper-free, air blow, double packaging, resin

Release button color: Light blue

Rubber material: FKM Grease-free

Grease-free

Grease-free

body: white)

Grease-free

Specifications

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

1 Made to Order

Symbol	Specifications			
X12	Lubricant: White vaseline, Release button color: White			
X35*1 Body color: Black, Release button color: Light gr				
X41	With fixed orifice*2			
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: ø8/R1/8 Thread material/Surface treatment: Brass, Brass + Electroless nickel plating Example) KQ2L08-01AQS			

*1 The following models are not available as made-to-order: Hexagon socket head male connector/KQ2S, Bulkhead union/KQ2E, Bulkhead connector/KQ2E, Nipple/KQ2N, Reducer nipple/KQ2N, Male connector/KQ2H, Female connector/KQ2F, Color cap/KQ2C, Plug/KQ2P

*2 Please contact SMC for availability.

2 Metric/Inch Conversion Fittings

Allows for the metric \leftrightarrow inch conversion of tubing

			tubing O.D. m]	Model
		a	b	
(a) side	(b) side	ø 6	ø 1/4 "	KQ2H06-07A-X562
Release button:	Release button:	ø 10	ø 3/8 "	KQ2H10-11A-X562
Light blue	Orange	ø 12	ø 1/2 "	KQ2H12-13A-X562

Variations

\square	_	Inch size									
		ø 1/8 (Metric nominal size: ø3.2)	Ø 5/32 (Metric nominal size: Ø 4)	ø 3/16	ø1/4	Ø 5/16 (Metric nominal size: Ø 8)	ø 3/8	ø 1/2			
	ø 2	KQ2H02-23A	KQ2H02-04A								
	Ø 3.2 (Inch nominal size: Ø 1/8)	Straight type (KQ2H23-00A/ KQ2H01-00A)	KQ2H01-03A KQ2H23-04A		KQ2H01-07A						
	Ø 4 (Inch nominal size: Ø 5/32)	KQ2H01-03A KQ2H23-04A	Straight type (KQ2H04-00A/ KQ2H03-00A)	KQ2H03-05A	KQ2H03-07A						
Metric size	ø 6	KQ2H23-06A	KQ2H04-06A		KQ2H06-07A-X562 (Made to Order)	KQ2H06-08A					
	Ø 8 (Inch nominal size: Ø 5/16)				KQ2H07-09A	Straight type (KQ2H08-00A/ KQ2H09-00A)	KQ2H09-11A	KQ2H09-13A			
	ø 10					KQ2H08-10A	KQ2H10-11A-X562 (Made to Order)				
	ø 12							KQ2H12-13A-X562 (Made to Order)			

3 Clean Series

Symbol	Specifications
10-	Brass parts: With electroless nickel plating Lubricant: Fluorine grease Air blow in a clean room Double packaging Resin body, Release button color: White

Example) 10-KQ2H06-02NS (With thread)

10-KQ2H06-00A (Without thread)



4 Spare Parts

Description	Part no.	Applicable thread				
Gasket	M-3G2	M3				
	M-5G2	M5				
	M-6G	M6				

Brass

Description	Part no.	Applicable model				
Pipe nut	KQ02-P01AJ	KQ2E02-00AJ				
	KQ23-P01AJ	KQ2E23-00AJ				
	KQ04-P01AJ	KQ2E04-00AJ				
	KQ06-P01AJ	KQ2E06-00AJ				
	KQ04-P01A	KQ2E23-00A, KQ2E04-00A, KQ2E23-02A				
		KQ2E04-01A, KQ2E04-02A, KQ2LE04-00A				
	KQ06-P01A	KQ2E06-00A, KQ2E06-01A, KQ2E06-02A				
		KQ2E06-03A, KQ2LE06-00A				
	KQ08-P01A	KQ2E08-00A, KQ2E08-01A, KQ2E08-02A				
		KQ2E08-03A, KQ2LE08-00A				
	KQ10-P01A	KQ2E10-00A, KQ2E10-02A, KQ2E10-03A				
		KQ2LE10-00A				
	KQ12-P01A	KQ2E12-00A, KQ2E12-03A, KQ2E12-04A				
		KQ2LE12-00A				
	KQ16-P01A	KQ2E16-00A				
		KQ2E16-03A, KQ2E16-04A				

Brass + Electroless nickel plating

Part no.	Applicable model							
KQ02-P01NJ	KQ2E02-00NJ							
KQ23-P01NJ	KQ2E23-00NJ							
KQ04-P01NJ	KQ2E04-00NJ							
KQ06-P01NJ	KQ2E06-00NJ							
KQ04-P01N	KQ2E23-00N, KQ2E04-00N, KQ2E23-02N							
	KQ2E04-01N, KQ2E04-02N, KQ2LE04-00N							
KQ06-P01N	KQ2E06-00N, KQ2E06-01N, KQ2E06-02N							
	KQ2E06-03N, KQ2LE06-00N							
KQ08-P01N	KQ2E08-00N, KQ2E08-01N, KQ2E08-02N							
	KQ2E08-03N, KQ2LE08-00N							
KQ10-P01N	KQ2E10-00N, KQ2E10-02N, KQ2E10-03N							
	KQ2LE10-00N							
KQ12-P01N	KQ2E12-00N, KQ2E12-03N, KQ2E12-04N							
	KQ2LE12-00N							
KQ16-P01N	KQ2E16-00N							
	KQ2E16-03N, KQ2E16-04N							
	Part no. KQ02-P01NJ KQ04-P01NJ KQ06-P01NJ KQ06-P01N KQ06-P01N KQ08-P01N KQ08-P01N KQ10-P01N							

Color Cap

Applicable tubing O.D. [mm]	Model	ø D 1	ø D 2	L	Weight [g]	Note
ø 8	KQ2C-08⊟A	12.8	9.2	2.6	0.1	Applicable for products
ø 10	KQ2C-10⊟A	15.2	11.2	2.7	0.1	before enlargement of
ø 12	KQ2C-12⊟A	17.6	13.2	2.7	0.1	outside diameter of
ø 16	KQ2C-16⊟A	22.4	17.2	3.2	0.2	release button

E: B (Black), R (Red), YR (Orange), BR (Brown), Y (Yellow), G (Green), CB (Sky blue), GR (Gray), W (White), BU (Blue)