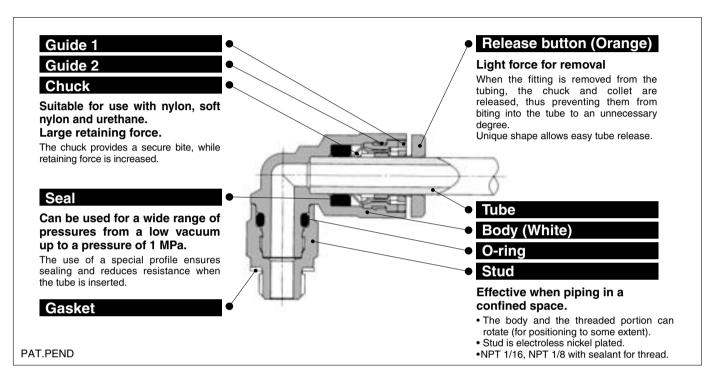
Inch-size Miniature One-touch Fittings Series KJ

Applicable Tubing: ø1/8", ø5/32", ø1/4"

Connection Thread: 10-32 UNF, NPT 1/16, NPT 1/8



Optimum piping in less space with 20% reduction of the outside

Thread with sealant is standard.

Copper-free specifications (Electroless nickel plated)

Possible to use from vacuum –100 kPa





Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon(1), Polyurethane
Tubing O.D.	ø ½, ø 5/32, ø ½



Note 1) Soft nylon tubing is not compatible with water.

Specifications

Fluid		Air/Water (2)
Operating pressure	range (3)	-100 kPa to 1 MPa
Proof pressure		3 MPa
Ambient and fluid to	emperature	-5 to 60°C (Water: 0 to 40°C) (No freezing)
	Mounting costion	ANSI/ASMEB1.20.1 (NTP thread),
Thread	Mounting section	JIS B0208 (UNF thread)
	Nut section	JIS B0208 (UNF thread)
Seal on the threads	(Standard)	With sealant
Copper-free (Standa	ard)	Brass parts are all electroless nickel plated.

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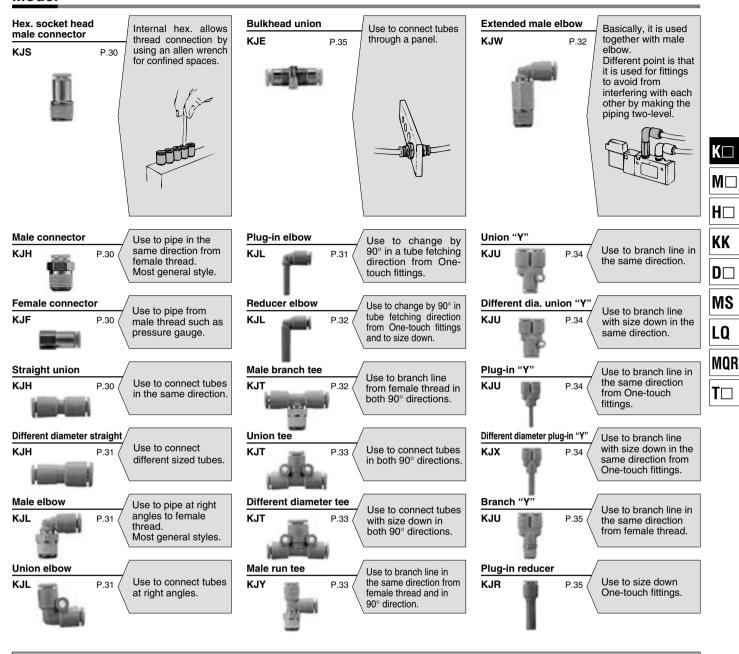
Note 2) The surge pressure must be under the maximum operating pressure.

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	Stainless steel 303, C3604, PBT
Stud	C3604 (Thread portion)
Chuck, Guide 2	Stainless steel 304
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR
Guide, Guide 1	PBT

Model



A Precautions

Be sure to read before handling.

Refer to front matters 58 and 59 for Safety Instructions and pages 13 to 16 for Fittings and Tubing Precautions.

 Please do not attach metal rods or metal pipes. Metal rods or pipes cannot be secured and the fittings will shoot out. Also, if tubes are attached after metal rods or pipes have been attached, the tubes will not hold and may come loose.

Installation and Removal of One-touch Mini Fittings

∧ Caution

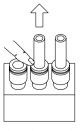
Installing of tube

- 1. Cut the tube perpendicularly, using caution not to damage its surface. (Use tube cutter "TK-1", "TK-2" or "TK-3". Do not cut the tube with cutting pliers, nippers, scissors, etc.)
- **2.** Grasp the tube, then slowly push it until ↓ it comes to a stop.
- **3.** Then, pull it back gently to make sure that it does not come out.

Removing of tube

While pushing down on the rim of the release button, pull out the tube in the direction of the arrow. (See illustration.)

The release button can also be pushed down with a flat-head screwdriver. However, be careful not to



ever, be careful not to break or damage the release button.

2. To reuse the released tube, cut off the damaged portion of the tube.



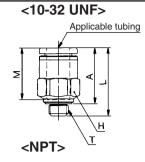
Series **KJ**

Male Connector: KJH

<10-32 UNF>



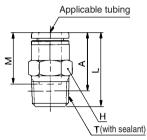
Applicable tubing O.D. (inch)	Connection thread (T) UNF NPT	Model	H (Width across flats)	L	A *	М	Max. port size	Mass (g)
	10-32UNF	KJH01-32	7	16.7	13.6		2.3	2
1/8	1/16	KJH01-33S	9.5	18.8	14.8	12.7	2.5	5
	1/8	KJH01-34S	11.11	12.9	9.8		2.5	4.7
	10-32UNF	KJH03-32	8	17	13.9		2.3	2.4
5/32	1/16	KJH03-33S	9.5	19.5	15.5	12.7	3	4.7
	1/8	KJH03-34S	11.11	13.9	10.8		٥	4.6
	10-32UNF	KJH07-32		18.4	15.3		2.3	3.3
1/4	1/16	KJH07-33S	11.11	22	18	13.6	3.5	6.2
	1/8	KJH07-34S		17.5	14.4		4.6	5.2
		. NET						







* Reference dimensions after NPT thread installation.



<NPT>

<10-32 UNF>

Hexagon Socket Head Male Connector: KJS

<10-32 UNF>



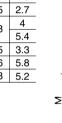
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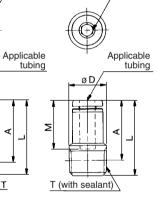
	Applicable tubing O.D. (inch)	Connection thread (T) UNF NPT	Model	H (Width across flats)	Note) Ø D	L	A *	М	Min. port size	Mass (g)
	1/8	10-32UNF	KJS01-32	2	7	19.7	16.6	12.7	2	2.8
		10-32UNF		2.5	8	18.7	15.6		2.5	2.7
	5/32	1/16	KJS03-33S		0	19.6	15.6	12.7	2.8	4
		1/8	KJS03-34S	2.70	10.3	19.6	15.0		2.0	5.4
Ī		10-32UNF	KJS07-32	2.5		19.6	16.5		2.5	3.3
	1/4	1/16	KJS07-33S	3.57	10.3	21.1	17.1	13.6	3.6	5.8
		1/8	KJS07-34S	4.76		20.1	16.1		4.8	5.2

* Reference dimensions after NPT thread installation.

Note) ØD: Max. diameter



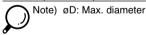


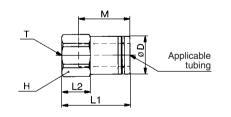


Female Connector: KJF



Applicable tubing O.D. (inch)	Connection thread (T) UNF	Model	(Width across flats)	Note) Ø D	L1	L2	M	Min. port size	Mass (g)	
1/8	10-32UNF	KJF01-32	7	6.9	18.8	7.9	12.7	2.5	2.8	
5/32	10-32UNF	KJF03-32	8	7.9	18.7	7.8	12.7	3	3.8	
1/4	10-32UNF	KJF07-32	11.11	10.3	18	7.5	13.6	4	5.3	

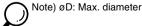


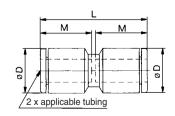


Straight Union: KJH



Applicable tubing O.D. (inch)	Model	Note) Ø D	٦	М	Min. port size	Mass (g)
1/8	KJH01-00	8.4	26.3	12.7	2.5	1.4
5/32	KJH03-00	9.3	26.3	12.7	3	1.7
1/4	KJH07-00	12	28.1	13.6	4.6	2.6

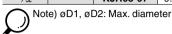


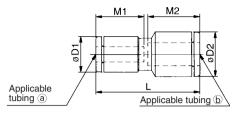


Different Diameter Straight: KJH



Applicable (in	tubing O.D. ch)	Model	Note) Ø D1		L	M1	M2	Max. port	Mass (g)	
a	(b)							size	(9)	
1/8	5/32	KJH01-03	8.4	9.3	26.3	12.7	12.7	2.5	1.6	
1/8	1/4	KJH01-07	0.4	12	27.2	12.7	13.6	2.5	2.1	
5/32	74	KJH03-07	9.3	12	27.2	12.7	13.6	3	2.3	





K□

M□

 $H\square$

KK

 $\mathsf{D}\Box$

MS

LQ

MQR

 $\mathsf{T}\Box$

Male Elbow: KJL

<10-32 UNF>



Applicable tubing O.D. (inch)	Connection thread (T) UNF NPT	Model	H (Width across flats)		L1	L2	A *	М	Min. port size	Mass (g)
	10-32UNF	KJL01-32	7			13.2	14.3		2.3	2.5
1/8	1/16	KJL01-33S	9.5	8.4	15.3	16.4	16.6	12.7	2.5	5.9
	1/8	KJL01-34S	11.11			14.5	15.6		2.5	6.7
	10-32UNF	KJL03-32	7			13.7	15.3		2.3	2.7
5/32	1/16	KJL03-33S	9.5	9.3	15.6	16.9	17.6	12.7	2.5	4.5
	1/8	KJL03-34S	11.11			15	16.6		2.5	6.8
	10-32UNF	KJL07-32	7		16.1	15.1	18		2.3	3.2
1/4	1/16	KJL07-33S	9.5	12	10.1	18.3	20.3	13.6	2.5	5.3
	1/8	KJL07-34S	11.11		17.8	16.4	19.3		4.6	6.4

<10-32 UNF>

L1

M

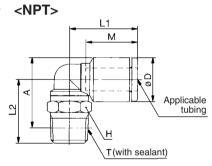
Applicable tubing

<NPT>



* Reference dimensions after NPT thread installation.

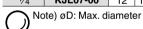
Note) øD: Max. diameter

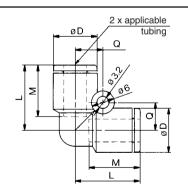


Union Elbow: KJL



Applicable tubing O.D. (inch)	Model	Note) Ø D	L	Q	М	Min. port size	Mass (g)	
1/8	KJL01-00	8.4	15	5.8	12.7	2.5	1.6	
5/32	KJL03-00	9.3	15.8	6.3	12.7	3	2	
1/4	KJL07-00	12	17.4	7.6	13.6	4.6	3.3	



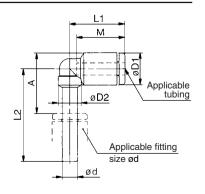


Plug-in Elbow: KJL



Applicable tubing O.D. (inch)	Applicable fitting size Ød (inch)	Model	ø D1	ø D2	L1	L2	A	М	Min. port size	Mass (g)
1/8	1/8	KJL01-99	8.4	6	14.5	23.8	15.3	12.7	2.2	1
5/32	5/32	KJL03-99	9.3	6	15.6	24.7	16.7	12.7	2.5	1.2
1/4	1/4	KJL07-99	12	7.6	16.7	27	19.4	13.6	4.6	2.1

Note) øD1: Max. diameter



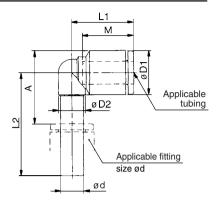
Series **KJ**

Reducer Elbow: KJL



A	tubing O.D. (inch)	fitting size ø d (inch)	Model	ø D1	ø D2	L1	L2	A	М	Min. port size	Mass (g)
П	1/-	5/32	KJL01-03	0.4	6	14.5	24.3	15.8	12.7	2.2	1.1
	1/8	1/4	KJL01-07	8.4	6.35	14.7	25.8	16.4	12.7	2.2	1.3
	5/32	1/4	KJL03-07	9.3	6.35	14.9	26.2	17.3	12.7	2.5	1.5

Note) øD1: Max. diameter



Extended Male Elbow: KJW

<10-32 UNF>



	Applicable tubing O.D. (inch)	Connection thread (T) UNF NPT	Model	H (Width across flats)		L1	L2	A *	М	Min. port size	Mass (g)	
		10-32UNF	KJW01-32	7			26.2	27.3		2.3	6.2	
	10-3	1/16	KJW01-33S	9.5	1	15.3	29.4	29.6	12.7	2.5	11.5	
		1/8	KJW01-34S	11.11			24.8	25.9		2.5	13.4	
		10-32UNF	KJW03-32	7			26.7	28.3		2.3	6.4	
	5/32	1/16	KJW03-33S	9.5	9.3	15.6	29.9	30.6	12.7	2.5	11.7	
		1/8	KJW03-34S	11.11			25.3	26.9		2.5	13.6	
		10-32UNF	KJW07-32	7		16.1	28.1	31		2.3	6.9	
		1/16	KJW07-33S	9.5		10.1	31.3	33.3	13.6	2.5	10.7	
		1/8	KJW07-34S	11.11		17.8	29.4	32.3		4.6	13.2	

Applicable tubing

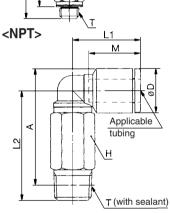
<10-32 UNF>

<NPT>



* Reference dimensions after NPT thread installation.

Note) øD: Max. diameter



2 x applicable tubing

ØΒ

<10-32 UNF>

Male Branch Tee: KJT

<10-32 UNF>

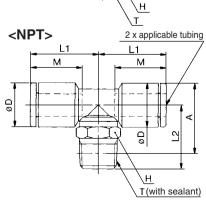


	Applicable tubing O.D. (inch)	thread (T) UNF NPT	Model	H (Width across flats)	α	L1	L2	A *	М	Min. port size	Mass (g)	
		10-32UNF	KJT01-32	7			13.2	14.3		2.3	3.2	
	1/8	1/16	KJT01-33S	9.5	8.4	15.3	16.4	16.6	12.7	2.5	6.6	
		1/8	KJT01-34S	11.11			14.5	15.6		2.5	7.4	
		10-32UNF	KJT03-32	7			13.7	15.3		2.3	3.5	
	5/32	1/16	KJT03-33S	9.5	9.3	15.6	16.9	17.6	12.7	2.5	6.9	
		1/8	KJT03-34S	11.11			15	16.6		2.5	7.7	
1/2		10-32UNF	KJT07-32	7		16.1	15.1	18		2.3	4.4	
	1/4	1/16	KJT07-33S	9.5	12	10.1	18.3	20.3	13.6	2.5	6.8	
		1/8	KJT07-34S	11.11		17.8	16.4	19.3		4.6	7.6	

* Reference dimensions after NPT thread installation. Note) øD: Max. diameter



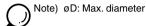


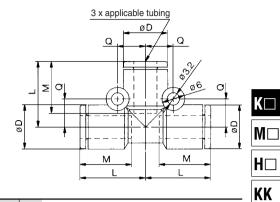


Union Tee: KJT



Applicable tubing O.D. (inch)	Model	Note) Ø D	L	Q	М	Min. port size	Mass (g)
1/8	KJT01-00	8.4	15	5.8	12.7	2.5	2.5
5/32	KJT03-00	9.3	15.8	6.3	12.7	3	3
1/4	KJT07-00	12	17.4	7.6	13.6	4.6	4.8





 $\mathsf{D}\Box$

MS

LQ

MQR

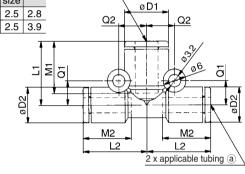
 $\mathsf{T}\Box$

Different Diameter Tee: KJT



Applicable (inc	J	Model	Note) Ø D1	Note) Ø D2	L1	L2	Q1	Q2	М1	M2	Min. port	Mass (g)	
a	Ø										size	(9)	
1/8	5/32	KJT01-03	9.3	8.4	15.3	15.8	5.8	6.3	12.7	12.7	2.5	2.8	
5/32	1/4	KJT03-07	12	9.3	16.4	16.8	6.3	7.6	13.6	12.7	2.5	3.9	

Note) øD1, øD2: Max. diameter



<10-32 UNF>

Applicable

tubing (b)

Male Run Tee: KJY

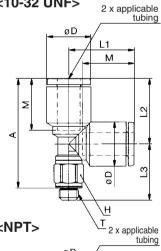
<10-32 UNF>



A	pplicable tubing O.D. (inch)	Connection thread (T) UNF NPT	Model	H (Width across flats)	Note) Ø D	L1	L2	L3	A *	М	Min. port size	Mass (g)
		10-32UNF	KJY01-32	7				13.2	24.9		2.3	3.2
	1/8	1/16	KJY01-33S	9.5	8.4	15.4	14.8	16.4	27.2	12.7	2.5	5.1
		1/8	KJY01-34S	34S 11.11			14.5	26.2		2.5	7.4	
	10-32UNF	KJY03-32	7				13.7	25.4		2.3	3.5	
	5/32	1/16	KJY03-33S	9.5	9.3	15.6	14.8	16.9	27.7	12.7	2.5	5.4
		1/8	KJY03-34S	11.11				15	26.7		2.5	7.7
		10-32UNF	KJY07-32	7		17.6	17.6	15.1	29.6		2.3	4.5
	1/4	1/16	KJY07-33S	9.5	12	17.0	17.0	18.3	31.9	13.6	2.5	6.7
		1/8	KJY07-34S	11.11		17.9	17	16.4	30.3		4.6	7.5

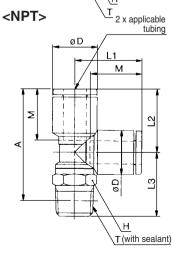
* Reference dimensions after NPT thread installation.

Note) øD: Max. diameter









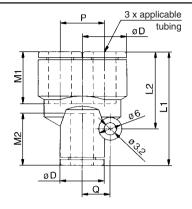
Series **KJ**

Union "Y": KJU



,	Applicable tubing O.D. (inch)	Model	Note) Ø D	L1	L2	Р	Q	М1	M2	Min. port size	Mass (g)
	1/8	KJU01-00	8.4	28.5	19	8.4	5.8	12.7	12.9	2.5	2.6
	5/32	KJU03-00	9.3	27.9	18.3	9.3	6.3	12.7	12.9	3	3
	1/4	KJU07-00	12	32.3	22.7	12	7.6	13.6	13.8	4.6	5

Note) øD: Max. diameter

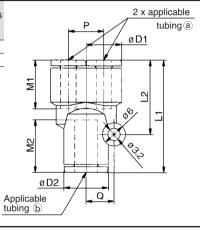


Different Diameter. Union "Y": KJU



Applicable tubing O.D (inch)			Note) Ø D1	Note) Ø D2		L2	Р	Q	M1		Min. port	Mass (g)
(a)	(g)										size	(9)
1/8	5/32	KJU01-03	8.4	9.3	27.5	18.3	8.4	6.3	12.7	12.9	2.5	2.7
5/32	1/4	KJU03-07	9.3	12	30.4	20.6	9.3	7.6	12.7	13.8	3	3.9

Note) øD1, øD2: Max. diameter

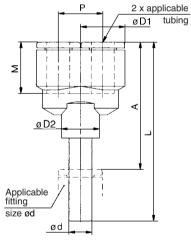


Plug-in "Y": KJU



Applicable tubing O.D. (inch)	Applicable fitting size ød (inch)	Model	ø D1	ø D2	L	Р	A	М	Min. port size	Mass (g)
1/8	1/8	KJU01-99	8.4	10	43.5	8.4	34.1	12.7	2.5	2.7
5/32	5/32	KJU03-99	9.3	10	44.7	9.3	35.3	12.7	3	3.2
1/4	1/4	KJU07-99	12	10	49.9	12	39.6	13.6	4.6	4.7

Note) øD1: Max. diameter

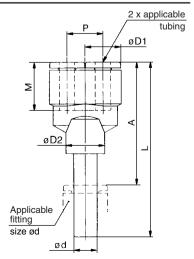


Different Diameter Plug-in "Y": KJX



Applicable tubing O.D. (inch)	Applicable fitting size ød (inch)	Model	Note) Ø D1	ø D2	L	P	A	М	Min. port size	Mass (g)
1/8	5/32	KJX01-03	8.4	10	44	8.4	34.6	12.7	2.5	2.8
5/32	1/4	KJX03-07	9.3	10	45.7	9.3	35.4	12.7	3	3.6

Note) øD1: Max. diameter



Branch "Y": KJU

<10-32 UNF>



Applicable tubing O.D. (inch)	Connection thread (T) UNF NPT	Model	H (Width across flats)		ø D2	L	Р	A *	М	Min. port size	Mass (g)	
	10-32UNF	KJU01-32				30.6		27.5		1.8	5.9	
1/8	1/16	KJU01-33S	11.11	8.4	10	34.1	8.4	30.1	12.7	2.5	8.1	
	1/8	KJU01-34S				33.2		30.1		2.5	8.3	
	10-32UNF	KJU03-32				31.3		28.2		1.8	6.4	
5/32	1/16	KJU03-33S	11.11	9.3	10	34.8	9.3	30.8	12.7	3.5	8.8	
	1/8	KJU03-34S				33.9		30.0		3.3	8.8	
	10-32UNF	KJU07-32	11.11			35.5		32.4		2.3	7.4	
1/4	1/16	KJU07-33S		12	10	39	12	35	13.6	3.5	10	
	1/8	KJU07-34S				38.1		33		4.6	10	

<UNF 10-32> 2 x applicable tubing H Ţ

K□

M□

 $H\square$

KK

 $\mathsf{D}\Box$

MS

LQ

MQR

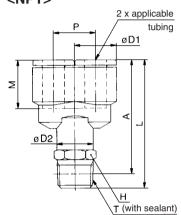
 $\mathsf{T}\Box$

<NPT>



* Reference dimensions after NPT thread installation. Note) øD1: Max. diameter

<NPT>

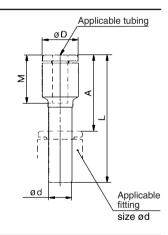


Plug-in Reducer: KJR



Applicable tubing O.D. (inch)	Applicable fitting size ød (inch)	Model	Note) Ø D	L	A	М	Min. port size	Mass (g)
1/8	5/ ₃₂ 1/ ₄	KJR01-03	8.4	32	19.3	10.7	2.5	0.9
1/8		KJR01-07	0.4	33	19.4	12.7	2.5	1.2
5/32		KJR03-07	9.3	33.5	19.9	12.7	3	1.4

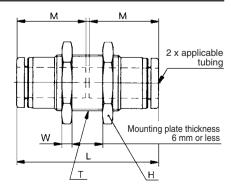
Note) øD: Max. diameter



Bulkhead Union: KJE



Applicable tubing O.D. (inch)	Model	throad (T)	H (Width across flats)		Mounting hole	М	w	Min. port size	Mass (g)	
1/8	KJE01-00	3/8 -24	12.7	26	10.5	12.7	0.0	2.5	0.1	
5/32	KJE03-00	3/8 -24	12.7	26	10.5	12.7	2.8	3	8.1	
1/4	KJE07-00	1/2 -20	15.88	27.8	14	13.6	3.5	4.6	15.7	



Series **KJ**

Made to Order Specifications Please contact SMC for detailed dimensions, specifications, and delivery.



1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Clean (Copper-free, air blow, double package)
X94	Grease-free Rubber material: FKM (With fluorine coating) Release button color: Light blue

2 Other Specifications

Symbol	Specifications				
X12	Lubricant: White Vaseline Release button color: White				
X34	Rubber material: FKM				
X41	With fixed throttle Note)				

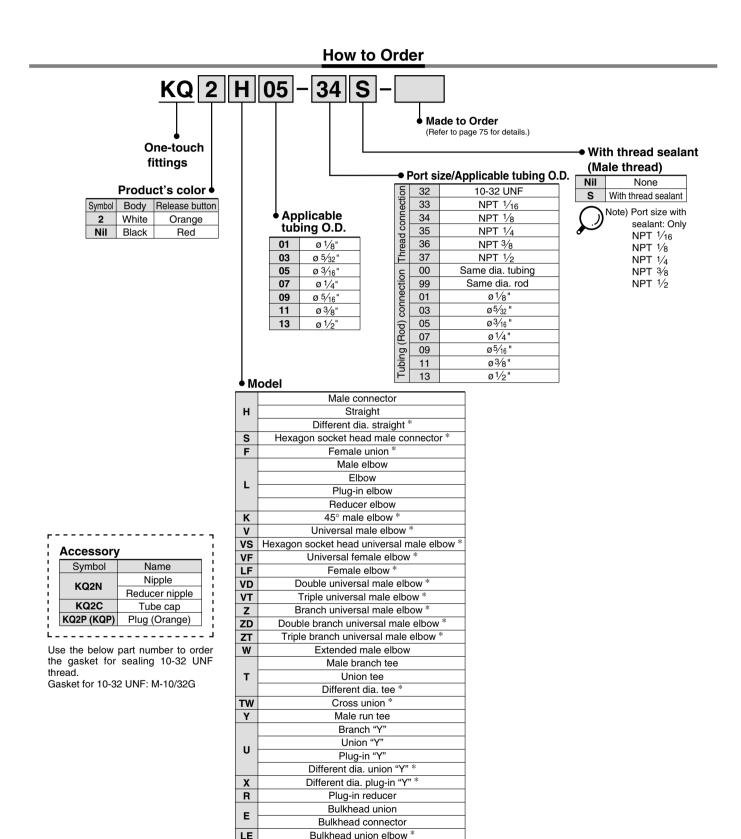
Note) Compatible with male connector and male elbow only Consult SMC separately for the available fixed throttle diameters.

Spare Parts

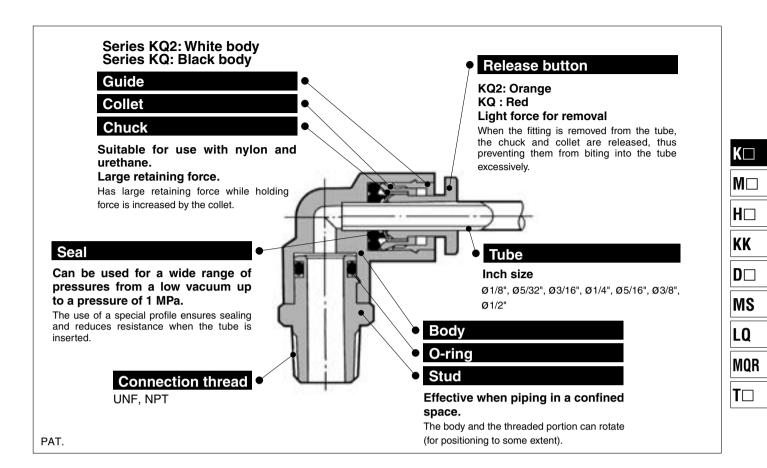
Description	Part no.	Applicable thread	Material	Applicable model
Gasket	M-10/32G	10-32 UNF	Stainless steel 304, NBR	_
Pino nut	KJ01-P01	_		KJE01-00, KJE03-00
Pipe nut	KJ07-P01	_	-	KJE07-00

Inch-size One-touch Fittings Series KQ2

Applicable Tubing: Inch Size Connection Thread: UNF, NPT



Available only for KQ2 (White color body).





Product's Color

Series	Series Body		
Series KQ2	White	Orange	
Series KQ	Black	Red	



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon (1), Polyurethane
Tubing O.D.	\emptyset 1/8", \emptyset 5/32", \emptyset 3/16", \emptyset 1/4", \emptyset 5/16", \emptyset 3/8", \emptyset 1/2"

Note 1) Soft nylon tubing is not compatible with water.

Specifications

	Air/Water (2)		
re range (3)	-100 kPa to 1 MPa		
	3 MPa		
temperature	−5 to 60°C, Water: 0 to 40°C (No freezing)		
Manustina acation	ANSI/ASMEB1.20.1 (NPT thread)		
Mounting section	JIS B0208 (UNF thread)		
Nut section	JIS B0208 (UNF thread)		
is	With sealant or none		
	temperature Mounting section Nut section		

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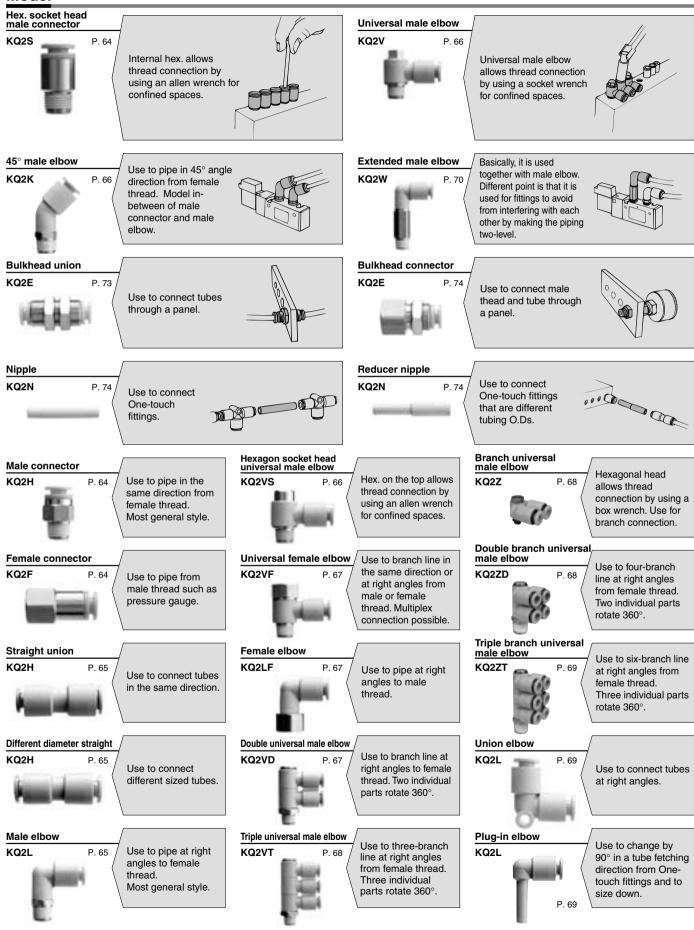
Note 2) The surge pressure must be under the maximum operating pressure.

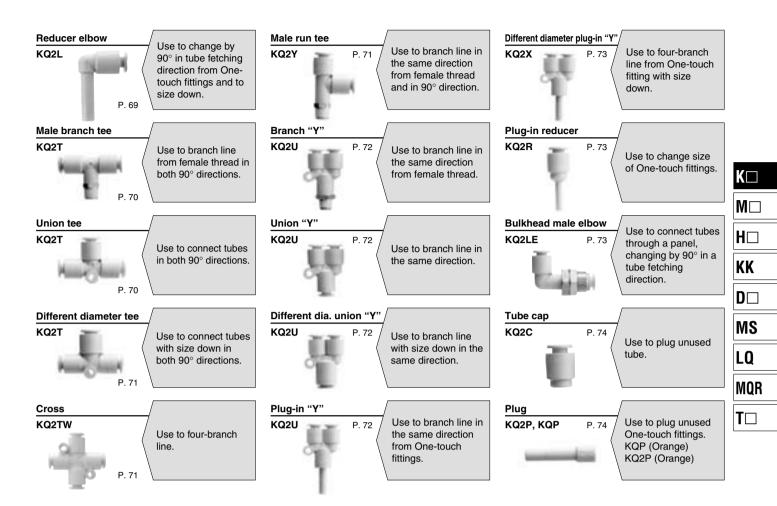
Note 3) Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Principal Parts Material

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

Model





Male Connector: KQ2H







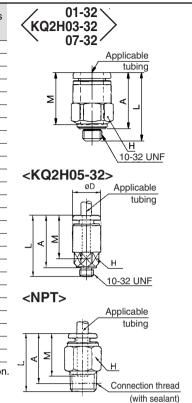


<NPT>



Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	Note) Ø D	L	A *	М	Min. port size	Mass (g)
	10-32 UNF	KQ2H01-32	7	_	16.7	13.7	12.7	2.3	2
1/	1/16	KQ2H01-33S	11.11	_	22	18			7
1/8	1/8	KQ2H01-34S	11.11	_	21.1	10	15.5	2.5	9
	1/4	KQ2H01-35S	14.29	_	19	13.5			16
	10-32 UNF	KQ2H03-32	8	_	17	14	12.7	2.3	2.4
5/32	1/16	KQ2H03-33S	11.11	_	22	18			7
9/32	1/8	KQ2H03-34S	11.11	_	21.1	10	16	3	9
	1/4	KQ2H03-35S	14.29	_	19	13.5			16
	10-32 UNF	KQ2H05-32	8	11	24	20.4		2.3	6
3/16	1/8	KQ2H05-34S	12.7	_	21.1	18	16.5	3.5	11
	1/4	KQ2H05-35S	14.29	_	20.5	15			12
	10-32 UNF	KQ2H07-32	11.11	_	18.4	15.4	13.6	2.3	3.3
1/4	1/8	KQ2H07-34S	12.7	_	21.6	18.5			10
/4	1/4	KQ2H07-35S	14.29	_	22.5	17	17	4.6	15
	3/8	KQ2H07-36S	17.46	_	20.9	16.5			27
	1/8	KQ2H09-34S	14.29	_	27.6	24.5			15
5/16	1/4	KQ2H09-35S	14.29	_	26	20.5	18.5	6	16
	3/8	KQ2H09-36S	17.46	_	20.9	15.5			24
	1/8	KQ2H11-34S		_	29.6	26.5		6	29
3/8	1/4	KQ2H11-35S	17.46	_	33	27.5	21		31
98	3/8	KQ2H11-36S		_	27.9	22.5	21	7	29
	1/2	KQ2H11-37S	22.23	_	25.6	18.5			46
	1/4	KQ2H13-35S		_	34	28.5		9	44
1/2	3/8	KQ2H13-36S	22.23	_	31.9	26.5	22	9.6	44
	1/2	KQ2H13-37S		_	29.1	22		3.0	44

* Reference dimensions after NPT thread installation. Note) øD: Max. diameter



Hexagon Socket Head Male Connector: KQ2S



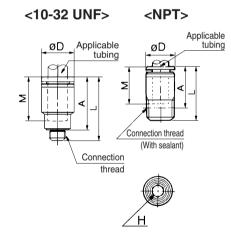


<NPT>



Δ	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	(Width across flats)	ø D	L	A *	М	Min. port size	Mass (g)
	1/8	10-32 UNF	KQ2S01-32	2	7	19.7	16.6	12.7	2	2.8
	5/32	10-32 UNF	KQ2S03-32	2.5	8	18.7	15.6	12.7	2.3	2.7
	9/32	1/8	KQ2S03-34S	2.78	10.5	23.5	19.5	16	2.8	8
	3/16	1/8	KQ2S05-34S	3.57	10.7	23.5	19.5	16.5	3.6	8
		10-32 UNF	KQ2S07-32	2.5	10.3	19.6	16.5	13.6	2.3	3.3
	1/4	1/8	KQ2S07-34S		12.5	22	18		4.9	7
		1/4	KQ2S07-35S	4.76	13.8	23	17	17		12
		3/8	KQ2S07-36S		17	27	21			27
		1/8	KQ2S09-34S	5.56	14	28	24	18.5	5.7	12
	5/16	1/4	KQ2S09-35S	0.05		25.5	19.5		6.5	11
		3/8	KQ2S09-36S	6.35	17.5	27.5	21		6.5	25
		1/8	KQ2S11-34S	5.56	16.5	30	26	21	5.7	17
	3/8	1/4	KQ2S11-35S		16.5	32	26			21
	9/8	3/8	KQ2S11-36S	6.35	17.2	29	23	21	6.5	25
		1/2	KQ2S11-37S		21.3	30	22			45
		1/4	KQ2S13-35S	7.94	20	34.5	28.5	22	8	26
	1/2	3/8	KQ2S13-36S	0.50	20	33	26.5	00	0.0	27
		1/2	KQ2S13-37S	9.53	21.3	31	22.5	22	9.6	36

* Reference dimensions after NPT thread installation. Note) øD: Max. diameter



Applicable tubing

Female Connector: KQ2F



Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	Note) Ø D	L1	L2	М	Min. port size	Mass (g)			
1/8	1/8	KQ2F01-34	14.29	0.0	26.5	11.5	155	0.5	16			
1/8	1/4	KQ2F01-35	17.46	9.2	30.5	14.5	15.5	2.5	26			
5/32	1/8	KQ2F03-34	14.29	10	27	11	16	3	15			
932	1/4	KQ2F03-35	17.46	10	31	13.5	16	3	24			
	1/8	KQ2F07-34	14.29	12.5	27.5	10.5	17	4.6	17			
1/4	1/4	KQ2F07-35	17.46		31	13.5			25			
	3/8	KQ2F07-36	22.23		33.5	15.5			44			
	1/8	KQ2F09-34	14.29					29	10.5			18
5/16	1/4	KQ2F09-35	17.46	14	32.5	13.5	18.5	6	26			
	3/8	KQ2F09-36	22.23		34.5	13			38			
	1/4	KQ2F11-35	17.46		34.5	4.5			30			
3/8	3/8	KQ2F11-36	22.23	16.5	36.5	15	21	7	48			
	1/2	KQ2F11-37	23.81		40.5	19			52			
1/	3/8	KQ2F13-36	22.23	-00	36.5	14.5			48			
1/2	1/2	KQ2F13-37	23.81	20	41	18.5	22	9.6	53			

Note) øD: Max. diameter

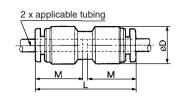


Connection thread

Straight Union: KQ2H



Applicable tubing O.D. (inch)	Model	Note) Ø D	L	М	Min. port size	Mass (g)
1/8	KQ2H01-00	9.6	31.5	15.5	2.5	3
5/32	KQ2H03-00	10.4	32.5	16	3	3
3/16	KQ2H05-00	11.4	34	16.5	3.5	4
1/4	KQ2H07-00	13.2	34.5	17	4.6	4
5/16	KQ2H09-00	15.2	38.5	18.5	6	6
3/8	KQ2H11-00	17.9	42.5	21	7	11
1/2	KQ2H13-00	21.7	44.5	22	9.6	16



K□

M□

 $H\square$

KK

 $\mathsf{D}\Box$

MS

LQ

MQR

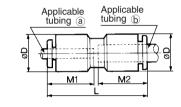
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Note) ØD: Max. diameter

Different Diameter Straight: KQ2H



in (in	tubing O.D.	Model	Note) Ø D	L	M1	M2	Min. port	Mass (g)									
<u>a</u>	(b)						size	(3)									
1/8	5/32	KQ2H01-03	10.4	32.5	15.5	16	2.5	3_									
78	1/4	KQ2H01-07	13.2	34.5	15.5	17	2.5	5									
5/32	3/16	KQ2H03-05	11.4	34	40	4.0	4.0	4.0	10	4.0	4.0	4.0	40	40	16.5	3	4
932	1/4	KQ2H03-07	13.2	34.5	16	17	٥	4									
3/16	1/4	KQ2H05-07	13.2	34.5	16.5	17	3.5	5									
1/4	5/16	KQ2H07-09	15.2	38.5	47	17	18.5	4.6	6								
74	3/8	KQ2H07-11	17.9	42	17	21	4.0	11									
5/16	3/8	KQ2H09-11	17.9	42	10.5	21	_	11									
916	1/2	KQ2H09-13	21.7	44	18.5	22	6	16									
3/8	1/2	KQ2H11-13	21.7	44	21	22	7	17									



Note) øD: Max. diameter

Male Elbow: KQ2L







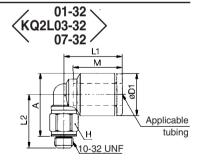


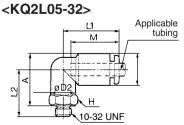
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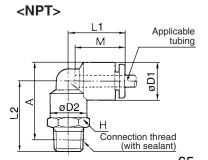


_												
	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
		10-32 UNF	KQ2L01-32	7	8.4	_	15.3	13.2	14.5	12.7	2.3	2.5
	1/8	1/16	KQ2L01-33S	11.11				21.5	22.5			8
	1/8	1/8	KQ2L01-34S	11.11	9.6	10	17.5	20.6	22.5	15.5	2.5	L°.
		1/4	KQ2L01-35S	14.29				25	24.5			18
		10-32 UNF	KQ2L03-32	7	9.3	_	15.6	13.7	15.4	12.7	2.3	2.7
	5/32	1/16	KQ2L03-33S	11.11				22	23			8
	9/32	1/8	KQ2L03-34S	11.11	10.4	10	18	21.1	2	16	3	9_
		1/4	KQ2L03-35S	14.29				25.5	25			18
		10-32 UNF	KQ2L05-32	11.11				20	22		2.3	5_
	3/16	1/8	KQ2L05-34S	11.11	11.4	10	19.5	21.6	24	16.5	3.5	10
		1/4	KQ2L05-35S	14.29				26	26		3.3	19
		10-32 UNF	KQ2L07-32	7	12	_	16.1	15.1	18.1	13.6	2.3	3.2
	1/4	1/8	KQ2L07-34S	11.11				22.6	26			10
	74	1/4	KQ2L07-35S	14.29	13.2	10	20.5	27	28	17	4.6	20
		3/8	KQ2L07-36S	17.46				28.4	30			32
		1/8	KQ2L09-34S	12.7				23.6	28			12
	5/16	1/4	KQ2L09-35S	14.29	15.2	12	23.5	28	30	18.5	6	20
		3/8	KQ2L09-36S	17.46				29.4	31.5			28
		1/8	KQ2L11-34S					25.6	31.5		6	16
	3/8	1/4	KQ2L11-35S	17.46	17.9	17	25.5	29	32.5	21		23
	9/8	3/8	KQ2L11-36S		17.3	''	20.0	30.4	34	۲۱	7	33
		1/2	KQ2L11-37S	22.23				34.6	36.5			59
		1/4	KQ2L13-35S	17.46				31	36.5		9	28
	1/2	3/8	KQ2L13-36S	17.40	21.7	17	28	32.4	38.5	22	9.6	36
		1/2	KQ2L13-37S	22.23				36.6	40		9.0	62
			. D-4		-11				T 41-			—

* Reference dimensions after NPT thread installation. Note) øD1: Max. diameter









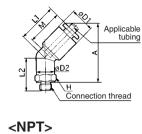
45° Male Elbow: KQ2K

<10-32 UNF>

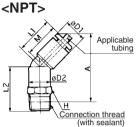




•	3/ZIX											
	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	(Width across flats)	Note) Ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
	1/8	10-32 UNF	KQ2K01-32	8	9.6	8	16.5	15	25.5	15.5	2.3	4
	1/8	1/8	KQ2K01-34S	11.11	9.0	10	16.5	21.6	33	15.5	2.5	9
	5/32	10-32 UNF	KQ2K03-32	8	10.4	8	17	14.5	26	16	2.3	4
	9/32	1/8	KQ2K03-34S	11.11	10.4	10	17	19.6	32	10	2.8	9
	3/16	1/8	KQ2K05-34S	11.11	11.4	10	18	19.6	32.5	16.5	3.6	10
		10-32 UNF	KQ2K07-32	11.11				18	32		2.3	8
	1/4	1/8	KQ2K07-34S	11.11	13.2	10	19	19.6	34	17	2.3 8 1 4.6 1 3 1	10
	74	1/4	KQ2K07-35S	14.29	13.2	10	19	24	36	17	4.6	19
		3/8	KQ2K07-36S	17.46				25.4	37.5			32
		1/8	KQ2K09-34S	12.7				21.1	37		2.3 8 10 4.6 19 32 8.5 6 19 32	11
	5/16	1/4	KQ2K09-35S	14.29	15.2	12	20.5	25.5	39	18.5		19
		3/8	KQ2K09-36S	17.46				26.9	41			32
		1/8	KQ2K11-34S					23.1	42		6	25
	3/8	1/4	KQ2K11-35S	17.46	17.9	47	00.5	26.5	43	04		25
	9/8	3/8	KQ2K11-36S	17.46	17.9	17	23.5	27.9	44.5	21	7	32
		1/2	KQ2K11-37S					32.1	46.5			58
		1/4	KQ2K13-35S	17.46				27	46.5		8	27
	1/2	3/8	KQ2K13-36S	17.46	21.7	17	25.5	28.4	48	22	0.6	35
		1/2	KQ2K13-37S	22.23				32.6	50		9.6	61



<10-32 UNF>





 \ast Reference dimensions after NPT thread installation. Note) øD1: Max. diameter

Universal Male Elbow: KQ2V

<10-32 UNF>

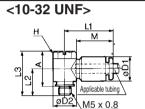


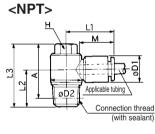
<NPT>



U	OW: NG	!ZV												
	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	L3	A*	М	Min. port size	Mass (g)	
	1/8	10-32 UNF	KQ2V01-32	8	8.4	9.8	17.2	11	18.5	15	12.7	2.3	5	
	1/8	1/8	KQ2V01-34S	٥	9.6	13.4	21.5	13.6	25.6	22.5	15.5	2.5	14	
	5/32	10-32 UNF	KQ2V03-32	8	10.4	9.8	20.5	11	18.5	15	16	2.3	6	
	9/32	1/8	KQ2V03-34S	°	10.4	13.4	22	13.6	25.6	22.5	16	2.8	14	
	3/16	1/8	KQ2V05-34S	8	11.4	13.4	23	13.6	25.6	22.5	16.5	3.5	15	
		10-32 UNF	KQ2V07-32			13.4	24	12	24	20.5		2.3	13	
1/4	1/8	KQ2V07-34S	8	13.2	13.4	24	13.6	25.6	22.5	17	4.0	15		
		1/4	KQ2V07-35S			15.3	23.5	18.5	32	26.5		4.6	25	
		1/8	KQ2V09-34S	44 44		17.0	28.5	14.6	27.6	24.5			24	
	5/16	1/4	KQ2V09-35S	11.11	15.2	17.6	28.5	18	31	25.5	18.5	6	30	
5/16		3/8	KQ2V09-36S	12.7		20.6	27.5	19.4	35.4	30			46	
	3/6	1/4	KQ2V11-35S	40.7	47.0	00.0	20.5	19	35	29.5		_	40	
3/8	3/8	KQ2V11-36S	12.7	17.9	20.6	30.5	19.4	35.4	30	21	7	48		
	1/	3/8	KQ2V13-36S	17.40	01.7		25.5	20.4	34.9	30	-00		68	
1/2	1/2	KQ2V13-37S	17.46	21.7	27	35.5	23.6	38.1	31	22	9	85		

* Reference dimensions after NPT thread installation.
Note) øD1: Max. diameter





Hexagon Socket Head Universal Male Elbow: KQ2VS

<10-32 UNF>

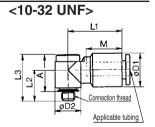


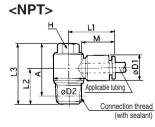
<NPT>



Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	(Width across flats)	Note) ø D1	ø D2	L1	L2	L3	A *	М	Min. port size	Mass (g)
1/	10-32 UNF	KQ2VS01-32	4	8.4	9.8	17.2	10.9	18.5	15	12.7	2.3	5
1/8	1/8	KQ2VS01-34S	6.35	9.6	13.4	21.5	13.6	25.6	22.5	15.5	2.5	14
5/32	10-32 UNF	KQ2VS03-32	4	10.4	9.8	20.5	11	18.5	15	16	2.3	6
9/32	1/8	KQ2VS03-34S	6.35	10.4	13.4	22	13.6	25.6	22.5	16	2.8	14
3/16	1/8	KQ2VS05-34S	8	11.4	13.4	23	13.6	25.6	22.5	16.5	3.5	15
	10-32 UNF	KQ2VS07-32			10.4	24	12	24	19		2.3	13
1/4	1/8	KQ2VS07-34S	6.35	13.2	13.4	24	13.6	25.6	00.5	17	4.0	15
	1/4	KQ2VS07-35S			15.3	23.5	18.5	28	22.5		4.6	22
	1/8	KQ2VS09-34S			17.0	00.5	14.6	26.1	23			21
5/16	1/4	KQ2VS09-35S	8	15.2	17.6	28.5	18	29.5	24	18.5	6	27
	3/8	KQ2VS09-36S			20.6	27.5	19.4	31.4	26			39
2/	1/4	KQ2VS11-35S	8	17.9	20.6	31	19	31	25.5	21	7	33
3/8	3/8	KQ2VS11-36S	0	17.9	20.6	31	19.4	31.4	26	21	/	42
1.4	3/8	KQ2VS13-36S	0.50	21.7	27	34.5	20.4	33.4	28.5	22	9	63
1/2	1/2	KQ2VS13-37S	9.53	21./	21	34.5	23.6	36.6	29.5	22	9	81
			11	Refer					NPT	threa	d insta	llation.

* Reference dimensions a Note) øD1: Max. diameter





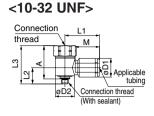
Universal Female Elbow: KQ2VF

<10-32 UNF>

<NPT>



	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	L3	A *	М	Min. port size	Mass (g)
	1.4	10-32 UNF	KQ2VF01-32	8	8.4	9.8	17.2	10	20	16.5	12.7	2.3	5
	1/8	1/8	KQ2VF01-34S	14.29	9.6	13.4	21.5	13.1	28.6	25.5	15.5	2.5	18
	5/32	10-32 UNF	KQ2VF03-32	8	10.4	9.8	20.5	11	20	16	16	2.5	6
	9/32	1/8	KQ2VF03-34S	14.29	10.4	13.4	22	14.6	28.6	25.5	10	2.8	18
	3/16	1/8	KQ2VF05-34S	14.29	11.4	13.4	23	13.1	28.6	25.5	16.5	3.5	19
		10-32 UNF	KQ2VF07-32			10.4	24	11.5	27	23.5		2.3	16
	1/4	1/8	KQ2VF07-34S	14.29	13.2	13.4	24	13.1	28.6	25.5	17	4.0	19
		1/4	KQ2VF07-35S	17.46		17.6	25	17	38	32.5		4.6	37
		1/8	KQ2VF09-34S	47.40		17.0	00.5	16.1	30.1	27			30
	5/16	1/4	KQ2VF09-35S	17.46	15.2	17.6	28.5	19.5	38	32.5	18.5	6	38
		3/8	KQ2VF09-36S	22.23		25.2	29.5	19.4	43.9	39			67
	2/	1/4	KQ2VF11-35S		17.0	20.6	31	17	40.5	35	0.1	7	60
	3/8	3/8	KQ2VF11-36S	22.23	17.9	25.2	31.5	18.4	43.9	39	21	/	70
	1/	3/8	KQ2VF13-36S	22.23	01.7		٥	19.9	40.9	39			85
3/ ₈ 1/ ₂	1/2	1/2	KQ2VF13-37S	25.4	21.7	27	35.5	23.1	49.1	41.5	22	9	104



K□

M□

 $H\square$

KK

 $\mathsf{D}\Box$

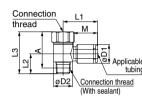
MS

LQ

MQR

 $\mathsf{T}\Box$

<NPT>

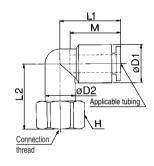


* Reference dimensions after NPT thread installation. Note) øD1: Max. diameter

Female Elbow: KQ2LF



~												
	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	М	Min. port size	Mass (g)	
	1/8	1/8	KQ2LF01-34	14.29	9.6	10	17.5	20	15.5	2.5	12	
	1/8	1/4	KQ2LF01-35	17.46	9.0	10	17.5	23.5	15.5	2.5	20	
	5/32	1/8	KQ2LF03-34	14.29	10.4	10	18	20.5	16	3	12	
		1/4	KQ2LF03-35	17.46	10.4	10	10	24	10	3	20	
		1/8	KQ2LF07-34	14.29				22			13	
	1/4	1/4	KQ2LF07-35	17.46	13.2	10	20.5	25.5	17	4.6	21	
		3/8	KQ2LF07-36	22.23				26			33	
		1/4	KQ2LF11-35	17.46				27.5			28	
	3/8	3/8	KQ2LF11-36	22.23	17.9	17	25.5	28	21	7	40	
3/8		1/2	KQ2LF11-37	23.81				32			45	
	1/6	3/8	KQ2LF13-36	22.23	21.7	17	28	30	22	9.6	44	
	1/2	1/2	KQ2LF13-37	23.81	21.7	' /	20	34	22	9.0	49	





Note) øD1: Max. diameter

Double Universal Male Elbow: KQ2VD

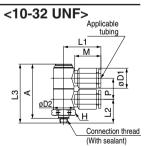


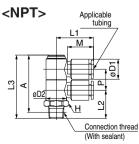




Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	(Width across flats)	Note) Ø D1	ø D2	L1	L2	L3	A *	М	Р	Min. port size	Mass (g)
1/8	10-32 UNF	KQ2VD01-32	14.29	9.6	13.4	22	15.5	38.5	35	15.5	13.4	2.3	24
1/8	1/8	KQ2VD01-34S	14.29	9.0	13.4	22	17.1	40.1	37	15.5	13.4	2.5	23
5/32	10-32 UNF	KQ2VD03-32	14.29	10.4	13.4	22	15.5	38.5	35	16	13.4	2.3	24
9/32	1/8	KQ2VD03-34S	14.29	10.4	13.4	22	17.6	40.1	37	10	13.4	3	23
3/16	1/8	KQ2VD05-34S	14.29	11.4	13.4	23	17.1	40.1	37	16.5	13.4	3.5	24
	10-32 UNF	KQ2VD07-32					15.5	39	35.5				26
1/4	1/8	KQ2VD07-34S	14.29	13.2	13.4	24	17.6	40.6	37.5	17	13.8		25
74	1/4	KQ2VD07-35S		13.2	13.4	24	22.1	44	38.5	17	13.0	4.6	31
	3/8	KQ2VD09-36S	17.46				22.4	45.4	40.5				44
	1/8	KQ2VD09-35S	19				23.1	50.1	45				49
5/16	1/4	KQ2VD09-36S	19	15.2	17.6	28.5	24.5	51.5	45.5	18.5	15.9	6	57
	3/8	KQ2VD09-37S	22.23				27.4	54.4	47.5				81
	1/4	KQ2VD11-35S					25.5	57.5	52				76
3/8	3/8	KQ2VD11-36S	22.23	17.9	20.6	31	25.9	57.9	52.5	21	19.2	7	77
	1/2	KQ2VD11-37S					29.1	61.1	54				94
1/2	3/8	KQ2VD13-36S	25.4	21.7	27	35.5	30.9	65.4	60.5	22	22.3	9.6	142
72	1/2	KQ2VD13-37S	25.4	21.7	21	33.5	34.1	68.6	61.5	22	22.3	5.0	159

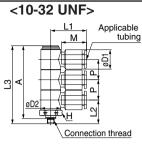
* Reference dimensions after NPT thread installation. Note) øD1: Max. diameter



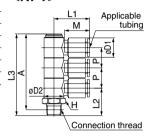


Triple Universal Male Elbow: KQ2VT

<10-32 UNF>	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	(Width across flats)	Note) Ø D1	ø D2	L1	L2	L3	A *	М	P	Min. port size	Mass (g)	<10-
-	1./-	10-32 UNF	KQ2VT01-32	14.29	9.6	13.4	22	15.5	52	48.5	15 5	13.4	2.3	32	
	1/8	1/8	KQ2VT01-34S	14.29	9.0	13.4	22	17.1	53.6	50.5	15.5	13.4	2.5	30	1 1
	5/32	10-32 UNF	KQ2VT03-32	14.29	10.4	13.4	22	15.5	52	48.5	16	13.4	2.3	32	
1	9/32	1/8	KQ2VT03-34S	14.29	10.4	13.4	22	17.6	53.6	50.5	10	13.4	3	29	დ ∢
The second second	3/16	1/8	KQ2VT05-34S	14.29	11.4	13.4	23	17.1	53.6	50.5	16.5	13.4	3.5	31	ا ات
The second of		10-32 UNF	KQ2VT07-32					15.5	53	49.5				35	øD2
	1/4	1/8	KQ2VT07-34S	14.29	100	10.4	24	17.6	54.6	51.5	17	100	4.6	33	<u>, </u>
*	74	1/4	KQ2VT07-35S		13.2	13.4	24	22.1	58	52.5	17	13.8	4.6	39	·
		3/8	KQ2VT07-36S	17.46				22.4	59.4	54				52	
		1/4	KQ2VT09-35S	19				23.1	66.1	61				59	
<npt></npt>	5/16	3/8	KQ2VT09-36S	1 19	15.2	17.6	28.5	24.5	67.5	61.5	18.5	15.9	6	70	<np< td=""></np<>
-		1/2	KQ2VT09-37S	22.23				27.4	70.4	63.5				94	~
Account to		1/4	KQ2VT11-35S					25.5	77	71.5				98	
Married W.	3/8	3/8	KQ2VT11-36S	22.23	17.9	20.6	31	25.9	77.4	72	21	19.2	7	98	
		1/2	KQ2VT11-37S					29.1	80.6	73				114	1 1
Girman de	1/2	3/8	KQ2VT13-36S	25.4	21.7	27	25.5	30.9	87.9	83	22	22.3	9.6	188	
	72	1/2	KQ2VT13-37S	25.4	21.7	21	35.5	34.1	91.1	84	22	22.3	9.6	203	
Marine 4					<u>"</u> *	Refer	ence	dimer	nsions	after	NPT	threa	d insta	llation.	EJ V







.) Note) øD1: Max. diameter

Branch Universal Male Elbow: KQ2Z



<10-32 UNF>



<NPT>

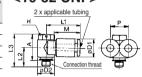


C	II IVIAIC	LIDUW.	NGZZ												
	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	(Width across flats)	Note) Ø D1	ø D2	L1	L2	L3	A *	М	Р	Min. port size	Mass (g)	
	1/-	10-32 UNF	KQ2Z01-32	8	8.4	9.8	16	11.2	18.5	15	12.7	8.4	2.3	6	
	1/8	1/8	KQ2Z01-34S	•	9.6	13.4	20.5	13.6	25.6	22.5	15.5	9.6	2.5	16	
	5/32	10-32 UNF	KQ2Z03-32	8	10.4	9.8	19.5	11	18.5	15	16	10.4	2.3	8	
	9/32	1/8	KQ2Z03-34S	•	10.4	13.4	21	13.6	25.6	22.5	16	10.4	2.8	16	
	3/16	1/8	KQ2Z05-34S	8	11.4	13.4	21.5	13.6	25.6	22.5	16.5	11.4	3.5	17	
		10-32 UNF	KQ2Z07-32	8	13.2	13.4	21.5	12	24	20.5			2.3	15	
	1/4	1/8	KQ2Z07-34S	8	13.2	13.4	21.5	13.6	25.6	22.5	17	13.2	4.0	17	
		1/4	KQ2Z07-35S	11.11	15.2	17.6	26	18	31	25.5			4.6	33	
		1/8	KQ2Z09-34S	11.11		17.6	26	14.6	27.6	24.5				27	
	5/16	1/4	KQ2Z09-35S	11.11	15.2	17.6	20	18	31	25.5	18.5	15.2	6	33	
		3/8	KQ2Z09-36S	12.7		20.6	27	19.4	35.4	30				49	
	3/8	1/4	KQ2Z11-35S	40.7	47.0		00.5	19	35	29.5		47.0	_	46	•
	9/8	3/8	KQ2Z11-36S	12.7	17.9	20.6	28.5	19.4	35.4	30	21	17.9	7	55	
	1/	3/8	KQ2Z13-36S	17.40	01.7	07	00	20.4	34.9	30	00	01.7	0	76	
	1/2	1/2	KQ2Z13-37S	17.46	21.7	27	33	23.6	38.1	31	22	21.7	9	93	

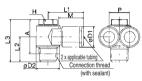


* Reference dimensions after NPT thread installation. Note) øD1: Max. diameter

<10-32 UNF>







Double Branch Universal Male Elbow: KQ2ZD



01111010	ai iiiaic														
Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	L3	A *	М	P1	P2	Min. port size	Mass (g)	
1/8	1/8	KQ2ZD01-34S	14.29	9.6	13.4	20.5	17.1	40.1	37	15.5	13.4	9.6	2.5	26	
5/32	1/8	KQ2ZD03-34S	14.29	10.4	13.4	21	17.6	40.1	37	16	13.4	10.4	3	26	
3/16	1/8	KQ2ZD05-34S	14.29	11.4	13.4	21.5	17.1	40.1	37	16.5	13.4	11.4	3.5	29	
	1/8	KQ2ZD07-34S	14.29				17.6	40.6	37.5					30	
1/4	1/4	KQ2ZD07-35S	14.29	13.2	13.4	21.5	22.1	44	38.5	17	13.8	13.2	4.6	36	
	3/8	KQ2ZD07-36S	17.46				22.4	45.4	40.5					49	
	1/4	KQ2ZD09-35S	10				23.1	50.1	45					56	
5/16	3/8	KQ2ZD09-36S	19	15.2	17.6	26	24.5	51.5	45.5	18.5	15.9	15.2	6	64	۳.
	1/2	KQ2ZD09-37S	22.23				27.4	54.4	47.5					88	
	1/4	KQ2ZD11-35S					25.5	57.5	52					88	
3/8	3/8	KQ2ZD11-36S	22.23	17.9	20.6	28.5	25.9	57.9	52.5	21	19.2	17.9	7	90	
	1/2	KQ2ZD11-37S					29.1	61.1	54					106	
1/4	3/8	KQ2ZD13-36S	05.4	04.7		-00	30.9	65.4	60.5			04.7	0.0	158	
1/2	1/2	KQ2ZD13-37S	25.4	21.7	27	33	34.1	68.6	61.5	22	22.3	21.7	9.6	176	



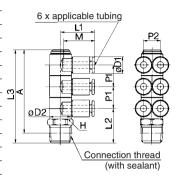
* Reference dimensions after NPT thread installation. Note) øD1: Max. diameter



Triple Branch Universal Male Elbow: KQ2ZT



Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	L3	A *	М	P1	P2	Min. port size	Mass (g)	
1/8	1/8	KQ2ZT01-34S	14.29	9.6	13.4	20.5	17.1	53.6	50.5	15.5	13.4	9.6	2.5	34	
5/32	1/8	KQ2ZT03-34S	14.29	10.4	13.4	21	17.6	53.6	50.5	16	13.4	10.4	3	34	
3/16	1/8	KQ2ZT05-34S	14.29	11.4	13.4	21.5	17.1	53.6	50.5	16.5	13.4	11.4	3.5	38	
	1/8	KQ2ZT07-34S	14.29				17.6	54.6	51.5					40	
1/4	1/4	KQ2ZT07-35S	14.29	13.2	13.4	21.5	22.1	58	52.5	17	13.8	13.2	4.6	46	
	3/8	KQ2ZT07-36S	17.46				22.4	59.4	54					59	
	1/4	KQ2ZT09-35S	10				23.1	66.1	61					70	
5/16	3/8	KQ2ZT09-36S	19	15.2	17.6	26	24.5	67.5	61.5	18.5	15.9	15.2	6	80	
	1/2	KQ2ZT09-37S	22.23				27.4	70.4	63.5					104	
	1/4	KQ2ZT11-35S					25.5	77	71.5					116	
3/8	3/8	KQ2ZT11-36S	22.23	17.9	20.6	28.5	25.9	77.4	72	21	19.2	17.9	7	116	
	1/2	KQ2ZT11-37S					29.1	80.6	73					132	
1/2	3/8	KQ2ZT13-36S	05.4	01.7	07	-00	30.9	87.9	83	00	00.0	01.7	0.0	213	
72	1/2	KQ2ZT13-37S	25.4	21.7	27	33	34.1	91.1	84	22	22.3	21.7	9.6	228	
					D-4		11:			£4 N	IDT 4		1 : 4 - 1		



 \mathcal{Q}

* Reference dimensions after NPT thread installation. Note) øD1: Max. diameter

D□

MS

LQ

MQR

 $\mathsf{T}\Box$

 $\mathsf{K}\square$

M□

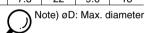
 $H\square$

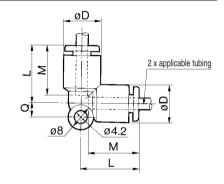
KK





Applicable tubing O.D. (inch)	Model	ø D	L	Q	М	Min. port size	Mass (g)	
1/8	KQ2L01-00	9.6	17.5	4.3	15.5	2.5	3	
5/32	KQ2L03-00	10.4	18	4.5	16	3	4	
3/16	KQ2L05-00	11.4	19.5	4.8	16.5	3.5	5	
1/4	KQ2L07-00	13.2	20.5	5.3	17	4.6	5	
5/16	KQ2L09-00	15.2	23	6	18.5	6	7	
3/8	KQ2L11-00	17.9	26	6.6	21	7	13	
1/2	KQ2L13-00	21.7	29	7.8	22	9.6	18	

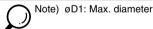


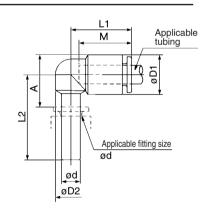


Plug-in Elbow: KQ2L



Applicable tubing O.D. (inch)	Applicable fitting size ød (inch)	Model	ø D1	ø D2	L1	L2	A	М	Min. port size	Mass (g)
1/8	1/8	KQ2L01-99	9.6	7	17	24.5	14	15	2.2	3
5/32	5/32	KQ2L03-99	10.4	8	18	25	14.5	16	2.5	3
3/16	3/16	KQ2L05-99	11.4	10	19.5	34	23.5	16.5	3.5	7
1/4	1/4	KQ2L07-99	13.2	10	20	27.5	17.5	17	4.6	8
5/ ₁₆	5/16	KQ2L09-99	15.2	12	22.5	31.5	21	18.5	6	6
3/8	3/8	KQ2L11-99	17.9	13.6	25	35	23	21	7	19
1/2	1/2	KQ2L13-99	21.7	17	28.8	44.7	34	22	9.6	27



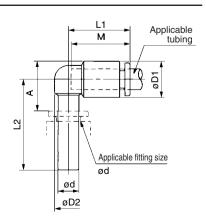


Reducer Elbow: KQ2L



Applicable tubing O.D. (inch)	Applicable fitting size ød (inch)	Model	ø D1	ø D2	L1	L2	A	М	Min. port size	Mass (g)
1/8	5/32	KQ2L01-03	9.6	7	17	25	13.5	15.5	2.2	3
78	3/16	KQ2L01-05	9.0	10	17.5	33	21.5	13.3	2.5	7
5/32	3/16	KQ2L03-05	10.4	10	18	33.5	22.5	16	3	6
9/32	1/4	KQ2L03-07	10.4	8	10	26	14.5	10	2.5	3
3/16	1/4	KQ2L05-07	11.4	10	19	26.5	15.5	16.5	3.5	8
9 16	5/16	KQ2L05-09	11.4	10	19.5	35.5	23	10.5	3.5	11
1/4	5/16	KQ2L07-09	13.2	10	20.5	36.5	24.5	17	4.6	12
'/4	3/8	KQ2L07-11	13.2	10	20.5	39.5	23.5	17	4.0	17
5/16	3/8	KQ2L09-11	15.0	10	00.5	40.5	27.5	18.5	6	17
9/16	1/2	KQ2L09-13	15.2	12	23.5	41.5	27.5	16.5	U	30
3/8	1/2	KQ2L11-13	17.9	17	25.5	43	30	21	7	25

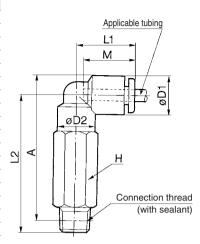
Note) øD1: Max. diameter

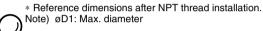


Extended Male Elbow: KQ2W



Applicable tubing O.D. (inch)	Connection thread NPT	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
1/8	1/8	KQ2W01-34S	11.11	9.6	10	17.5	36.1	38	15.5	2.5	19
78	1/4	KQ2W01-35S	14.29	9.0	10	17.5	42.5	42	13.3	2.5	41
5/32	1/8	KQ2W03-34S	11.11	10.4	10	18	36.6	38.5	16	3	19
9/32	1/4	KQ2W03-35S	14.29	10.4	10	0	43	42.5	10	3	41
3/16	1/8	KQ2W05-34S	11.11	11.4	10	19.5	37.1	40	16.5	3.5	41
916	1/4	KQ2W05-35S	14.29	11.4	10	19.5	43.5	43.5	10.5	3.5	19
	1/8	KQ2W07-34S	11.11				39.6	43			20
1/4	1/4	KQ2W07-35S	14.29	13.2	10	20.5	46	47	17	4.6	42
	3/8	KQ2W07-36S	17.46				47.4	49			69
	1/8	KQ2W09-34S	12.7				42.6	47			30
5/16	1/4	KQ2W09-35S	14.29	15.2	12	23.5	49	51	18.5	6	47
	3/8	KQ2W09-36S	17.46				50.4	53			74
	1/4	KQ2W11-35S	17.46				55.5	59			69
3/8	3/8	KQ2W11-36S	17.40	17.9	17	25.5	56.9	61	21	7	76
	1/2	KQ2W11-37S	22.23				63.6	65.5			147
	1/4	KQ2W13-35S	17.46				57.5	63		9	72
1/2	3/8	KQ2W13-36S	17.40	21.7	17	28	58.9	64.5	22	9.6	78
	1/2	KQ2W13-37S	22.23				65.6	69		9.0	149





Male Branch Tee: KQ2T

<10-32 UNF>

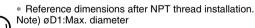




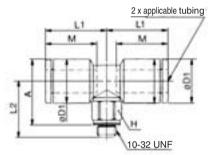




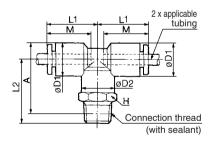
. IVQZ I											
Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	(Width across flats)	Note) Ø D1	ø D2	L1	L2	A	M	Min. port size	Mass (g)
	10-32 UNF	KQ2T01-32	7	8.4	_	15.3	13.2	14.4	12.7	2.3	3.2
1/8	1/16	KQ2T01-33S	11.11				21.5	22.5*			10
1/8	1/8	KQ2T01-34S	11.11	9.6	10	17.5	20.6	22.5	15.5	2.5	10
	1/4	KQ2T01-35S	14.29				25	24.5*			20
	10-32 UNF	KQ2T03-32	7	9.3	_	15.6	13.7	15.4	12.7	2.3	3.5
5/32	1/16	KQ2T03-33S	11.11				22	23*			10
9/32	1/8	KQ2T03-34S	11.11	10.4	10	18	21.1	20	16	3	11_
	1/4	KQ2T03-35S	14.29				25.5	25*			20
3/16	1/8	KQ2T05-34S	11.11	11.4	10	19.5	21.6	24*	16.5	3.5	12
9/16	1/4	KQ2T05-35S	14.29	11.4	10	19.5	26	26*	10.5	3.3	21
	10-32 UNF	KQ2T07-32	7	12	_	16.1	15.1	18.1	13.6	2.3	4.4
1/4	1/8	KQ2T07-34S	11.11				22.6	26*			11_
74	1/4	KQ2T07-35S	14.29	13.2	10	20.5	27	28*	17	4.6	21
	3/8	KQ2T07-36S	17.46				28.4	30*			34
	1/8	KQ2T09-34S	12.7				23.6	28*			15_
5/ ₁₆	1/4	KQ2T09-35S	14.29	15.2	12	23	28	30*	18.5	6	23
	3/8	KQ2T09-36S	17.46				29.4	31.5*			35
	1/8	KQ2T11-34S					25.6	31.5*		6	31
3/8	1/4	KQ2T11-35S	17.46	17.9	17	25.5	29	32.5*	21		29
98	3/8	KQ2T11-36S		17.3	''	20.0	30.4	34.5*	۷1	7	38
	1/2	KQ2T11-37S	22.23				34.6	36.5*			64
	1/4	KQ2T13-35S	17.46				31	36.5*		9	34
1/2	3/8	KQ2T13-36S	17.40	21.7	17	28	32.4	38.5*	22	9.6	43
	1/2	KQ2T13-37S	22.23				36.6	40*		9.0	69
		. D-4		allian i			N.I.	T 41-		4 - 11	



<10-32 UNF>



<NPT>

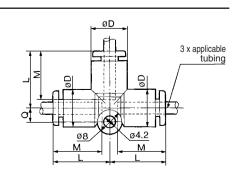


Union Tee: KQ2T



_									
	Applicable tubing O.D. (inch)	Model	ø D	L	Q	М	Min. port size	Mass (g)	
	1/8	KQ2T01-00	9.6	17.5	4.3	15.5	2.5	5	
	5/32	KQ2T03-00	10.4	18	4.5	16	3	4	
	3/16	KQ2T05-00	11.4	19.5	4.8	16.5	3.5	7	
	1/4	KQ2T07-00	13.2	20.5	5.3	17	4.6	8	
	5/16	KQ2T09-00	15.2	23	6	18.5	6	11	
	3/8	KQ2T11-00	17.9	26	6.6	21	7	18	
	1/2	KQ2T13-00	21.7	29	7.8	22	9.6	26	

Note) øD: Max. diameter

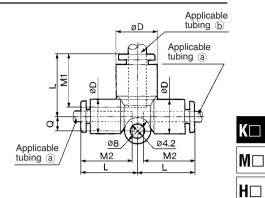




Different Diameter Tee: KQ2T



	tubing O.D. ch)	Model	Note) Ø D	L	Q	M1	M2	Min. port	Mass (g)
a	Ю							size	(9)
1/8	5/32	KQ2T01-03	10.4	18	4.5	16	15.5	2.5	5
1/8	1/4	KQ2T01-07	13.2	20.5	5.3	17	15.5	2.5	8
5/32	3/16	KQ2T03-05	11.4	19.5	4.8	16.5	16	3	6
932	1/4	KQ2T03-07	13.2	20.5	5.3	17	10	٥	8
3/16	1/4	KQ2T05-07	13.2	20.5	5.3	17	16.5	3.5	8
1/4	5/16	KQ2T07-09	15.2	23	6	18.5	17	4.6	11
74	3/8	KQ2T07-11	17.9	26	6.6	21	' '	4.0	17
5/16	3/8	KQ2T09-11	17.9	26	6.6	21	18.5	6	17
∀ 16	1/2	KQ2T09-13	21.7	29	7.8	22	10.5	٥	26
3/8	1/2	KQ2T11-13	21.7	29	7.8	22	21	7	28





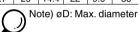
Note) øD: Max. diameter

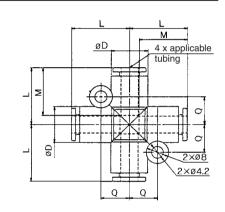
KK

Cross: KQ2TW



Applicable tubing O.D. (inch)	Model	ø D	L	Q	М	Min. port size	Mass (g)	_
5/32	KQ2TW03-00	10.4	18	8.7	16	3	6	
1/4	KQ2TW07-00	13.2	20.5	10.1	17	4.6	10	
5/16	KQ2TW09-00	15.2	23	11.1	18.5	6	14	
3/8	KQ2TW11-00	17.9	26	12.5	21	7	25	
1/2	KQ2TW13-00	21 7	29	14 4	22	96	36	





 $\mathsf{D}\Box$

MS

LQ

MQR

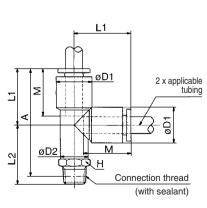
 $\mathsf{T}\Box$

Male Run Tee: KQ2Y



GZ I											
Applicable tubing O.D. (inch)	Connection thread NPT	Model	(Width across flats)	ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
1/8	1/16	KQ2Y01-33S KQ2Y01-34S	11.11	9.6	10	17.5	21.5 20.6	35	15.5	2.5	10
	1/4	KQ2Y01-35S	14.29				25	37			20
	1/16	KQ2Y03-33S	44 44				22	36			10
5/32	1/8	KQ2Y03-34S	11.11	10.4	10	18	21.1	36	16	3	11
	1/4	KQ2Y03-35S	14.29				25.5	38			20
3/16	1/8	KQ2Y05-34S	11.11	11.4	10	19.5	21.6	38	16.5	3.5	12
7 10	1/4	KQ2Y05-35S	14.29	11.4	10	13.5	26	40	10.5	0.0	21
	1/8	KQ2Y07-34S	11.11				22.6	40			11
1/4	1/4	KQ2Y07-35S	14.29	13.2	10	20.5	27	42	17	4.6	21
	3/8	KQ2Y07-36S	17.46				28.4	44			34_
	1/8	KQ2Y09-34S	12.7				23.6	44			15
5/ ₁₆	1/4	KQ2Y09-35S	14.29	15.2	12	23.5	28	46	18.5	6	23_
	3/8	KQ2Y09-36S	17.46				29.4	48			35
	1/4	KQ2Y11-35S	17.46				29	49			29
3/8	3/8	KQ2Y11-36S	17.40	17.9	17	25.5	30.4	51	21	7	38_
	1/2	KQ2Y11-37S	22.23				34.6	53			64
	1/4	KQ2Y13-35S	17.46				31	53.5		9	34_
1/2	3/8	KQ2Y13-36S	17.40	21.7	17	28	32.4	55.5	22	9.6	43
	1/2	KQ2Y13-37S	22.23				36.6	57		0.0	69

* Reference dimensions after NPT thread installation.
Note) øD1: Max. diameter

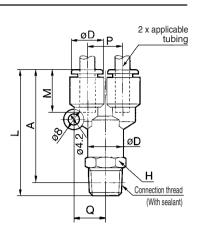




Branch "Y": KQ2U



Applicable tubing O.D. (inch)	Connection thread NPT	Model	H (Width across flats)	Note) Ø D	L	P	Q	A *	М	Min. port size	Mass (g)
1/8	1/8	KQ2U01-34S	12.7	9.6	39.6	9.6	9	36.5	15.5	2.5	14
/ 0	1/4	KQ2U01-35S	14.29	3.0	44	3.0	3	38.5	13.3	2.5	'
5/32	1/8	KQ2U03-34S	12.7	10.4	41.1	10.4	9.7	38	16	3	16
7.32	1/4	KQ2U03-35S	14.29	10.4	45.5	10.4	9.1	40	10	3	10
3/16	1/8	KQ2U05-34S	12.7	11.4	43.1	11.4	10.6	40	16.5	3.5	18
916	1/4	KQ2U05-35S	14.9	11.4	48	11.4	10.0	42.5	10.5	3.5	10
	1/8	KQ2U07-34S	14.00		45.6			42.5			
1/4	1/4	KQ2U07-35S	14.29	13.2	49	13.2	12	43.5	17	4.6	19
	3/8	KQ2U07-36S	17.46		50.4			45			
	1/8	KQ2U09-34S			51.6			48.5			21
5/16	1/4	KQ2U09-35S	17.46	15.2	55	15.2	13.7	49.5	18.5	6	22
	3/8	KQ2U09-36S			55.4			50			35
	1/4	KQ2U11-35S	10.05		59.5			54			42
3/8	3/8	KQ2U11-36S	19.05	17.9	59.9	17.9	15.6	54.5	21	7	43
	1/2	KQ2U11-37S	22.23		63.6			56.5			56
	1/4	KQ2U13-35S			64			58.5			31
1/2	3/8	KQ2U13-36S	22.23	21.7	64.4	21.7	18.8	59	22	9.6	41
	1/2	KQ2U13-37S			67.6			60.5			68





 \ast Reference dimensions after NPT thread installation. Note) $\,$ ØD: Max. diameter

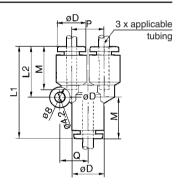
Union "Y": KQ2U



_											
	Applicable tubing O.D. (inch)	Model	Note) Ø D	L1	L2	Р	Q	М	Min. port size	Mass (g)	
	1/8	KQ2U01-00	9.6	33	17.5	9.6	9	15.5	2.5	6	
	5/32	KQ2U03-00	10.4	34	18	10.4	9.7	16	3	7	
	3/16	KQ2U05-00	11.4	36.5	20.5	11.4	10.6	16.5	3.5	9	
	1/4	KQ2U07-00	13.2	38	21.5	13.2	12	17	4.6	9	
	5/16	KQ2U09-00	15.2	42.5	24.5	15.2	13.7	18.5	6	11	
	3/2	KU3111-00	170	10	27.5	170	15.6	21	7	16	



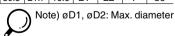
Note) øD: Max. diameter

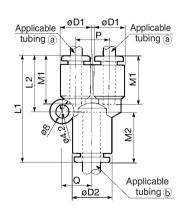


Different diameter union "Y": KQ2U



Applicable (inc		Model	Note) Ø D1	Note) Ø D2	L1	L2	Р	Q	M1	M2	Min. port	Mass (g)
(a)	Ь										size	(9)
1/-	5/32	KQ2U01-03	9.6	10.4	33.5	17.5	9.6	9	15.5	16	2.5	5
1/8	1/4	KQ2U01-07	9.0	13.2	38	21.5	13.2	12	15.5	17	2.5	9
5/32	3/16	KQ2U03-05	10.4	11.4	36.5	20.5	11.4	10.6	16	16.5	3	8
932	1/4	KQ2U03-07	10.4	13.2	38	21.5	13.2	12	10	17	٥	10
3/16	1/4	KQ2U05-07	11.4	13.2	38	21.5	13.2	12	16.5	17	3.5	9
1/4	5/16	KQ2U07-09	13.2	15.2	42.5	24.5	15.2	13.7	17	18.5	4.0	12
74	3/8	KQ2U07-11	13.2	17.9	47	27.5	17.9	15.6	17	21	4.6	23
5/16	3/8	KQ2U09-11	15.2	17.9	47	27.5	17.9	15.6	10 E	21	_	22
9/16	1/2	KQ2U09-13	10.2	21.7	51	30	21.7	18.8	18.5	22	6	34
3/8	1/2	KQ2U11-13	17.9	21.7	51.5	30.5	21.7	18.8	21	22	7	36



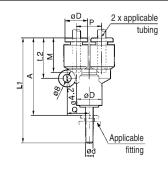


Plug-in "Y": KQ2U



Applicable tubing O.D. (inch)	Applicable fitting size ød (inch)	Model	Note) Ø D	L1	L2	Р	Q	A	М	Min. port size	Mass (g)
1/8	1/8	KQ2U01-99	9.6	50	17.5	9.6	9	35	15.5	2	10
5/32	5/32	KQ2U03-99	10.4	51.5	18	10.4	9.7	35.5	16	2.5	12
3/16	3/16	KQ2U05-99	11.4	56	20.5	11.4	10.6	39.5	16.5	3.5	17
1/4	1/4	KQ2U07-99	13.2	56.5	21.5	13.2	12	39.5	17	4.6	18
5/16	5/16	KQ2U09-99	15.2	64.5	24.5	15.2	13.7	46	18.5	6	21

Note) øD: Max. diameter



Different Diameter Plug-in "Y": KQ2X



Applicable tubing O.D. (inch)	Applicable fitting size ø d	Model	Note) Ø D	L1	L2	А	Р	Q	М	Min. port size	Mass (g)	
1/8	5/32	KQ2X01-03	10.4	51.5	18	35.5	10.4	9.7	15.5	2.5	5	
5/32	3/16	KQ2X03-05	11.4	56	20.5	39.5	11.4	10.6	16	3.5	10	
3/16	1/4	KQ2X05-07	13.2	56.5	21.5	39.5	13.2	12	16.5	4.6	9	
1/4	5/16	KQ2X07-09	15.2	64.5	24.5	46	15.2	13.7	17	6	21	

2 x applicable tubing Note) øD: Max. diameter Applicable fitting size ød Q.

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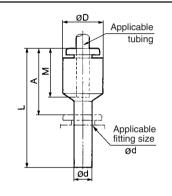
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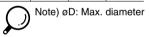
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Plug-in Reducer: KQ2R



	KQ2R								
	Applicable tubing O.D. (inch)	Applicable fitting size ø d (inch)	Model	ø D	L	A	М	Min. port size	Mass (g)
		5/32	KQ2R01-03	9.6	34.5	18.5			2
	1/8	3/16	KQ2R01-05	9.2	34	17.5	15.5	2.5	7
		1/4	KQ2R01-07	9.2	34	17			9
	5/32	3/16	KQ2R03-05	10	34	47.5	16	3	8
	9/32	1/4	KQ2R03-07	10.4	34.5	17.5	16	3	9
	3/16	1/4	KQ2R05-07	11.4	34.5	18.5	10.5	3.5	4
	916	5/16	KQ2R05-09	10.7	36.5	18	16.5	3.5	14
	1/4	5/16	KQ2R07-09	13.2	37	18.5	47	4.0	17
	74	3/8	KQ2R07-11	13.2	40	19.5	17	4.6	19
	5/16	3/8	KQ2R09-11	14	40	10	10.5	(24
9/16		1/2	KQ2R09-13	14	41	19	18.5	6	32
	3/8	1/2	KQ2R11-13	17.9	44	22	21	7	32

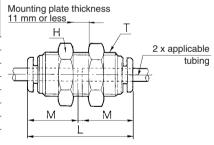




Bulkhead Union: KQ2E



-										
	Applicable tubing O.D. (inch)	Model	T (UNF)	H (Width across flats)	L	Mounting hole	М	Min. port size	Mass (g)	
	1/8	KQ2E01-00	1/2-20	17.46	32.5	13.5	15.5	2.5	26	
	5/32	KQ2E03-00	1/2-20	17.46	32.5	13.5	16	3	26	
	3/16	KQ2E05-00	9/16-18	17.46	34	15	16.5	3.5	33	
	1/4	KQ2E07-00	9/16 - 18	17.46	34.5	15	17	4.6	33	
	5/16	KQ2E09-00	3/4-16	22.23	38	20	18.5	6	52	
	3/8	KQ2E11-00	⁷ /8-14	25.4	42.5	23	21	7	70	
	1/2	KQ2E13-00	1-12	28.6	44.5	26	22	9.6	97	

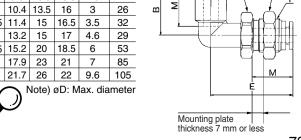


øD

Bulkhead Male Elbow: KQ2LE



Applica tubir O.D (incl	Model	T (UNF)	H1 (Width across flats)	H2 (Width across flats)	В	E	Note) Ø D	Mounting hole	М	Min. port size	Mass (g)
1/8	KQ2LE01-00	1/2-20	17.46	17.46	17.5	31	9.6	13.5	15.5	2.5	27
5/32	KQ2LE03-00	1/2-20	17.46	17.46	18	31	10.4	13.5	16	3	26
3/16	KQ2LE05-00	9/16-18	17.46	17.46	19.5	34.5	11.4	15	16.5	3.5	32
1/4	KQ2LE07-00	9/16-18	17.46	17.46	20.5	35	13.2	15	17	4.6	29
5/16	KQ2LE09-00	3/4-16	22.23	22.23	23.5	38.5	15.2	20	18.5	6	53
3/8	KQ2LE11-00	7/8-14	25.4	25.4	25.5	43	17.9	23	21	7	85
1/2	KQ2LE13-00	1-12	28.6	28.6	28	46	21.7	26	22	9.6	105



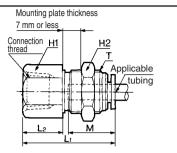
Applicable

tubing

Bulkhead Connector: KQ2E

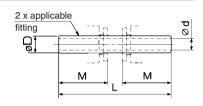


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Applicable tubing O.D. (inch)	Connection thread NPT	Model	Connection thread (UNF)	H1 (Width across flats)	H2 (Width across flats)	L1	L2	M	Min. port size	Mounting hole	Mass (g)
1/8	1/4	KQ2E01-35	1/2-20	17.46	17.46	31	15	15.5	2.5	13.5	36
5/32	1/4	KQ2E03-35	1/2-20	17.46	17.46	31	15	16	3	13.5	36
3/16	1/8	KQ2E05-34	9/16-18	17.46	17.46	28	10	16.5	3.5	15	34
1/4	1/4	KQ2E07-35	9/ ₁₆ -18	17.46	17.46	32.5	14.5	17	4.6	15	34
5/16	3/8	KQ2E09-36	3/4-16	22.23	22.23	35	15	18.5	6	20	52
3/8	3/8	KQ2E11-36	7/8-14	25.4	25.4	37	14.5	21	7	23	96
1/2	3/8	KQ2E13-36	1-12	28.6	28.6	37	14	22	9.6	26	125
72	1/2	KQ2E13-37	1-12	∠0.0	20.0	41.5	18	22	9.6	∠0	128



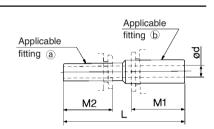
Nipple: KQ2N

Applicable fitting	Model	L	М	ø d	Mass (g)
1/8	KQ2N01-99	36	15.5	2.2	0.2
3/16	KQ2N05-99	38	16.5	3.5	0.4
1/4	KQ2N07-99	39	17	4.6	1
3/8	KQ2N11-99	49	21	7.5	10
1/2	KQ2N13-99	51	22	10	15



Reducer Nipple: KQ2N

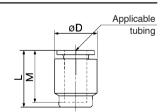
	fitting O.D. ch)	Model	L	M1	M2	ø d	Mass (g)
a	Ф						(9)
1/8	5/32	KQ2N01-03	36.5	16	15.5	2.2	0.2
¹ /8	3/16	KQ2N01-05	37	16.5	15.5	2.2	0.4
5/32	3/16	KQ2N03-05	37.5	16.5	16	2.5	0.4
932	1/4	KQ2N03-07	38	17	10	2.5	0.6
3/16	1/4	KQ2N05-07	38.5	17	16.5	3.5	0.6
916	5/16	KQ2N05-09	41	18.5	10.5	3.5	1
1/4	5/16	KQ2N07-09	41.5	18.5	17	4.6	1
'/4	3/8	KQ2N07-11	45	21	17	4.0	1
5/16	3/8	KQ2N09-11	46.5	21	18.5	6	11
916	1/2	KQ2N09-13	47.5	22	10.5	Ü	22
3/8	1/2	KQ2N11-13	50	22	21	7	24



Tube Cap: KQ2C



Applicable tubing O.D. (inch)	Model	ø D 1	L	М	Mass (g)	
5/32	KQ2C03-00	10.4	17	16	1	
1/4	KQ2C07-00	13.2	18	17	2	
⁵ /16	KQ2C09-00	15.2	20.5	18.5	3	
3/8	KQ2C11-00	17.9	22.5	21	6	



Plug: KQ2P, KQP



Applicable fitting size Ød (inch)	Mode	Note)	ø D	L	A	Mass (g)
1/8	KQ2P-01	KQP-01	5	31.5	16	1
5/32	KQ2P-03	KQP-03	6	32	16	1
3/16	KQ2P-05	KQP-05	6.8	34	17.5	1
1/4	KQ2P-07	KQP-07	8.5	35	18	1
5/16	KQ2P-09	KQP-09	10	39	20.5	2
3/8	KQ2P-11	KQP-11	11.5	43	22	3.5
1/2	KQ2P-13	KQP-13	15	46	24	5

Applicable fitting

Note) KQ2P and KQP: Orange



Made to Order Specifications Please contact SMC for detailed dimensions, specifications, and delivery.



1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X29	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Copper-free (With electroless nickel plated)
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Clean (Copper-free, air blow, double package, resin body: white)
X94	Grease-free Rubber material: FKM (With fluorine coating) Release button color: Light blue

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2 Other Specifications

Symbol	Specifications			
X2 Copper-free (With electroless nickel plated)				
X12	Lubricant: White Vaseline Release button color: White			
X23	Metal material: Stainless steel 303 Width across flats: Metric size			
X34 Rubber material: FKM				
X41 With fixed throttle Note)				

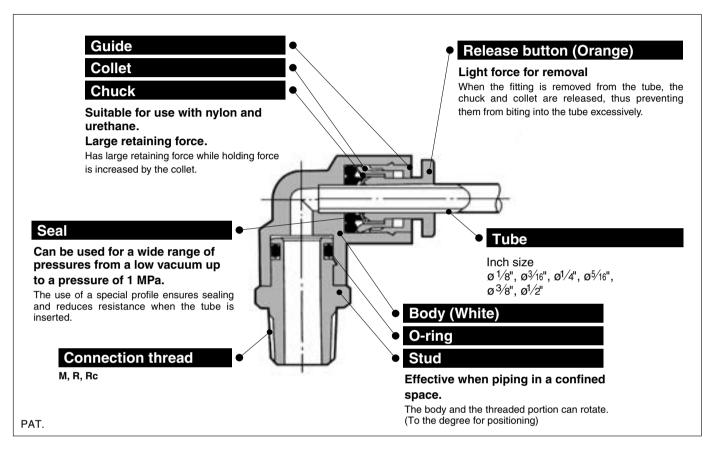
Note) Compatible with male connector and male elbow only Consult SMC separately for the available fixed throttle diameters.

Spare Parts

Description	Part no.	Applicable thread	Material	Applicable model
Gasket	M-10/32G	10-32 UNF	Stainless steel 304, NBR	_
	KQ01-P01	_	_	KQ2E01-00, KQ2E03-00, KQ2E01-35 KQ2E03-35, KQ2LF01-00, KQ2LE03-00
Ding nut	KQ05-P01	_		KQ2E05-00, KQ2E07-00, KQ2E05-34 KQ2E07-35, KQ2LF05-00, KQ2LE07-00
Pipe nut	KQ09-P01	_	_	KQ2E09-00, KQ2E09-36, KQ2LE09-00
	KQ11-P01	_		KQ2E11-00, KQ2E11-36, KQ2LE11-00
	KQ13-P01	_	_	KQ2E13-00, KQ2E13-36 KQ2E13-37, KQ2LE13-00

Inch-size One-touch Fittings Series KQ2

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





Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon (1), Polyurethane
Tubing O.D.	ö¹/8, ø³∕₁6," ø¹/4", ø⁵∕₁6," ø³∕8", ø¹/2"

Note 1) Soft nylon tubing is not compatible with water.

Specifications

<u> </u>		
Fluid		Air/Water (2)
Operating pressure r	ange (3)	-100 kPa to 1 MPa
Proof pressure		3 MPa
Ambient and fluid ter	mperature	-5 to 60°C, Water: 0 to 40°C (No freezing)
Thread	Mounting section	JIS B0203 (Taper thread for piping)
Tiffead	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.

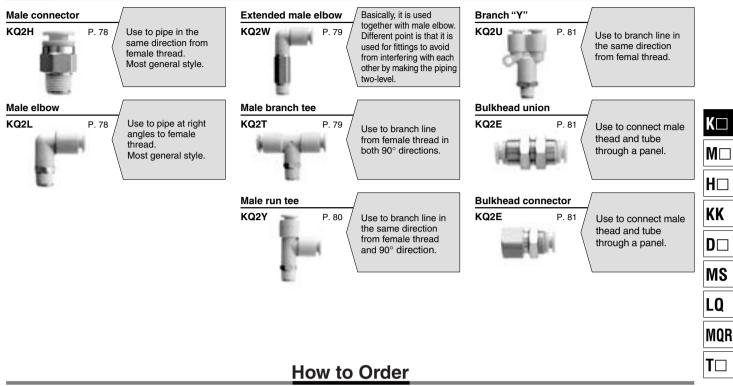
Principal Parts Material

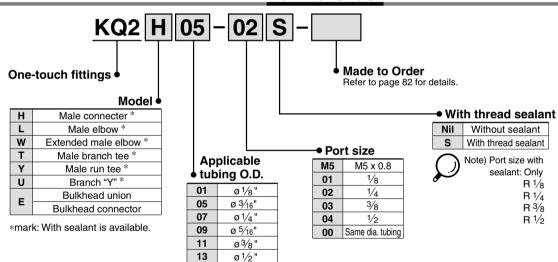
Body	C3604, PBT, PP
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304, C3604, PBT
Collet	POM
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



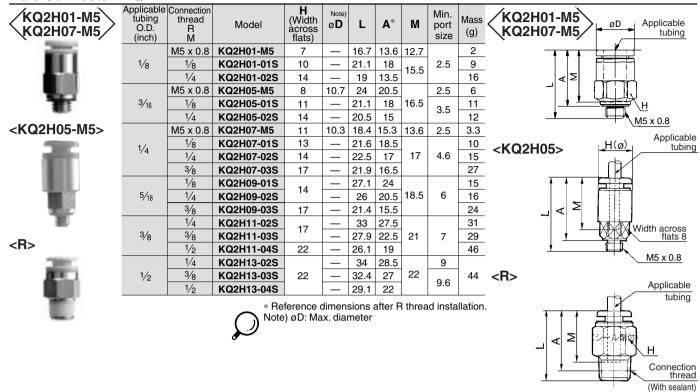


Model





Male Connector: KQ2H

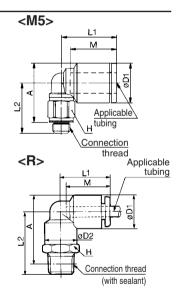


Male Elbow: KQ2L



Applicable tubing O.D. (inch)	Connection thread R M	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
1/8	M5 x 0.8	KQ2L01-M5	7	8.4	_	15.3	13.2	14.3	12.7	2.3	2.5
3/16	1/8	KQ2L05-01S	10	11.4	10	19.5	21.6	24	16.5	3.5	10
9/16	1/4	KQ2L05-02S	14	11.4	10	19.5	26	26	10.5	3.5	19
	M5 x 0.8	KQ2L07-M5	7	12	_	16.1	15.1	18	13.6	2.3	3.2
1/.	1/8	KQ2L07-01S	10				22.6	26			10
1/4	1/4	KQ2L07-02S	14	13.2	10	20.5	27	28	17	4.6	20
	3/8	KQ2L07-03S	17				28.4	29.5			32
	1/8	KQ2L09-01S	12				23.6	28			12
5/16	1/4	KQ2L09-02S	14	15.2	12	23.5	28	30	18.5	6	20
	3/8	KQ2L09-03S	17				29.4	31.5			28
	1/4	KQ2L11-02S	17				29	32.5			23
3/8	3/8	KQ2L11-03S	17	17.9	17	25.5	30.4	34	21	7	33
	1/2	KQ2L11-04S	22				34.6	36.5			59
	1/4	KQ2L13-02S	17				31	36.5		9	28
1/2	3/8	KQ2L13-03S	17	21.7	17	28	32.4	38.5	22	9.6	36
	1/2	KQ2L13-04S	22				36.6	40		9.0	62

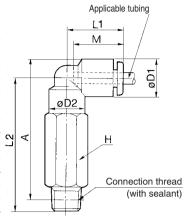




Extended Male Elbow: KQ2W



_													
	Applicable tubing O.D. (inch)	Connection thread R	Model	(Width across flats)		ø D2	L1	L2	A *	M	Min. port size	Mass (g)	
	3/16	1/8	KQ2W05-01S	10	11.4	10	19.5	37.1	40	16.5	3.5	19	
	9/16	1/4	KQ2W05-02S	14	11.4	10	19.5	43.5	43.5	10.5	3.5	41	
		1/8	KQ2W07-01S	10				39.6	43			20	
	1/4	1/4	KQ2W07-02S	14	13.2	10	20.5	46	47	17	4.6	45	
		3/8	KQ2W07-03S	17				47.4	49			69	
		1/8	KQ2W09-01S	12				42.6	47			30	
	5/ ₁₆	1/4	KQ2W09-02S	14	15.2	12	23.5	49	51	18.5	6	47	
		3/8	KQ2W09-03S	17				50.4	53			74	
		1/4	KQ2W11-02S	17				55.5	59			69	S
	3/8	3/8	KQ2W11-03S	17	17.9	17	25.5	56.9	61	21	7	76	
		1/2	KQ2W11-04S	22				63.6	65.5			147	
		1/4	KQ2W13-02S	17				57.5	63		9	72	
	1/2	3/8	KQ2W13-03S	''	21.7	17	28	58.9	64.5	22	0.6	78	
		1/2	KQ2W13-04S	22				65.6	69		9.6	149	
								. —	, –				



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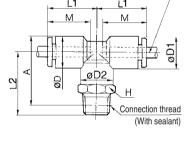
* Reference dimensions after R thread installation.

Note) øD1: Max. diameter

Male Branch Tee: KQ2T



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Applicable tubing O.D. (inch)	Connection thread R	Model	(Width across flats)	ø D1	ø D2	L1	L2	A *	M	Min. port size	Mass (g)	
3/16	1/8	KQ2T05-01S	10	11.4	10	19.5	21.6	24	16.5	3.5	12	
916	1/4	KQ2T05-02S	14	11.7	10	13.5	26	26	10.5	3.5	21	
	1/8	KQ2T07-01S	10				22.6	26			11	
1/4	1/4	KQ2T07-02S	14	13.2	10	20.5	27	28	17	4.6	21	
	3/8	KQ2T07-03S	17				28.4	30			34	
	1/8	KQ2T09-01S	12				23.6	28			15	
5/16	1/4	KQ2T09-02S	14	15.2	12	23	28	30	18.5	6	23	
	3/8	KQ2T09-03S	17				29.4	31.5			35	
	1/4	KQ2T11-02S	17				29	32.5			29	
3/8	3/8	KQ2T11-03S	17	17.9	17	25.5	30.4	34.5	21	7	38	
	1/2	KQ2T11-04S	22				34.6	36.5			64	
	1/4	KQ2T13-02S	17				31	36.5		9	34	
1/2	3/8	KQ2T13-03S	L''_	21.7	17	28	32.4	38.5	22	9.6	43	
	1/2	KQ2T13-04S	22				36.6	40		3.0	69	



2 x applicable tubing

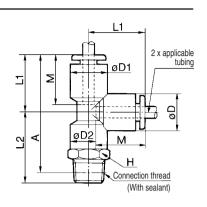
* Reference dimensions after R thread installation. Note) øD1: Max. diameter



Male Run Tee: KQ2Y



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Applicable tubing O.D. (inch)	Connection thread R	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	A *	M	Min. port size	Mass (g)
3/16	1/8	KQ2Y05-01S	10	11.4	10	19.5	21.6	38	16.5	3.5	12
9/16	1/4	KQ2Y05-02S	14	11.4	10	19.5	26	40	10.5	3.5	21
	1/8	KQ2Y07-01S	10				22.6	40			11
1/4	1/4	KQ2Y07-02S	14	13.2	10	20.5	27	42	17	4.6	21
	3/8	KQ2Y07-03S	17				28.4	44			34
	1/8	KQ2Y09-01S	12				23.6	40			15
5/16	1/4	KQ2Y09-02S	14	15.2	12	23.5	28	40	18.5	6	23
	3/8	KQ2Y09-03S	17				29.4	48			35
	1/4	KQ2Y11-02S	17				29	49			29
3/8	3/8	KQ2Y11-03S	17	17.9	17	25.5	30.4	51	21	7	38
	1/2	KQ2Y11-04S	22				34.6	53			64
	1/4	KQ2Y13-02S	17				31	53.5		9	34
1/2	3/8	KQ2Y13-03S	17	21.7	17	28	32.4	55.5	22	9.5	43
	1/2	KQ2Y13-04S	22				36.6	57		9.5	69



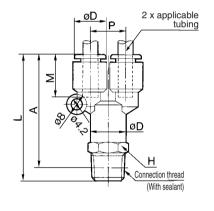


* Reference dimensions after R thread installation. Note) øD1: Max. diameter

Branch "Y": KQ2U



Applicable tubing O.D. (inch)	Connection thread R	Model	(Width across flats)	Note) Ø D	L	Р	A *	M	Min. port size	Mass (g)
3/16	1/8	KQ2U05-01S	12	11.4	43.1	11.4	40	16.5	3.5	18
9/16	1/4	KQ2U05-02S	14	11.4	48	11.4	42.5	10.5	3.5	18
	1/8	KQ2U07-01S	14		45.6		40.5			19
1/4	1/4	KQ2U07-02S	14	13.2	49	13.2	42.5	17	4.6	19
	3/8	KQ2U07-03S	17		50.4		45			19
	1/8	KQ2U09-01S			51.6		48.5			21
5/16	1/4	KQ2U09-02S	17	15.2	55	15.2	49.5	18.5	6	22
	3/8	KQ2U09-03S			55.4		50			35
	1/4	KQ2U11-02S	19		59.5		54			42
3/8	3/8	KQ2U11-03S	19	17.9	59.9	17.9	54.5	21	7	43
	1/2	KQ2U11-04S	22		63.6		56.5			56
	1/4	KQ2U13-02S			64		58.5			31
1/2	3/8	KQ2U13-03S	22	21.7	64.4	21.7	59	22	9.5	41
	1/2	KQ2U13-04S			67.6		60.5			68



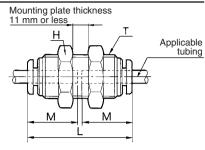
* Reference dimensions after R thread installation. Note) øD: Max. diameter



Bulkhead Union: KQ2E



•	NGZL									
	Applicable tubing O.D. (inch)	Model	T (M)	(Width across flats)	L	Mounting hole	M	Min. port size	Mass (g)	
	3/16	KQ2E05-00M	M14 x 1	17	34	15	16.5	3.5	30	
	1/4	KQ2E07-00M	M14 x 1	17	34.5	15	17	4.6	30	
	5/ ₁₆	KQ2E09-00M	M16 x 1	19	38	17	18.5	6	48	
	3/8	KQ2E11-00M	M20 x 1	24	42.5	21	21	7	62	
	1/2	KQ2E13-00M	M22 x 1	27	44.5	23	22	9.6	85	



$\mathsf{K}\square$

M□











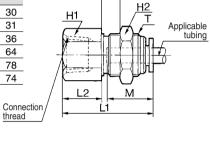




Bulkhead Connector: KQ2E



Applicable tubing O.D. (inch)	Connection thread Rc	Model	T (M)		H2 (Width across flats)		L2	М	Min. port size	Mounting hole	Mass (g)
3/16	1/8	KQ2E05-01	M14 x 1	17	17	28	11.5	16.5	3.5	15	30
1/4	1/4	KQ2E07-02	M14 x 1	17	17	32.5	14.5	17	4.6	15	31
5/16	3/8	KQ2E09-03	M16 x 1	19	19	35	15	18.5	6	17	36
3/8	3/8	KQ2E11-03	M20 x 1	22	24	35	14.5	21	7	21	64
1/-	3/8	KQ2E13-03	M22 x 1	24	27	37	14.5	22	9.6	23	78
1/2	1/2	KQ2E13-04	M22 x 1	24	21	41.5	18.5		9.0	23	74



Mounting plate thickness 7 mm or less

Made to Order Specifications Please contact SMC for detailed dimensions, specifications, and delivery.



1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X29	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Copper-free (With electroless nickel plated)
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Clean (Copper-free, air blow, double package, resin body: white)
X94	Grease-free Rubber material: FKM (With fluorine coating) Release button color: Light blue

2 Other Specifications

Symbol	Specifications				
X2	X2 Copper-free (With electroless nickel plated)				
X12	X12 Lubricant: White Vaseline Release button color: White				
X34	Rubber material: FKM				
X41 With fixed throttle Note)					

Note) Compatible with male connector and male elbow only Consult SMC separately for the available fixed throttle diameters.

Spare Parts

	_			
Description	Part no.	Applicable thread	Material	Applicable model
Gasket	M-5G2	M5	Stainless steel 304, NBR	_
	KQ06-P01	_	_	KQ2E05-01, KQ2E07-02 KQ2E05-00M, KQ2E07-00M
Pipe nut	KQ08-P01	_	1	KQ2E09-03, KQ2E09-00M
	KQ10-P01	_	<u> </u>	KQ2E11-03, KQ2E11-00M
	KQ12-P01	_	<u> </u>	KQ2E13-03, KQ2E11-04, KQ2E13-00M

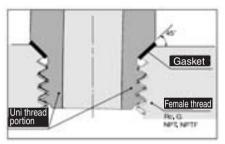
Inch-size Uni One-touch Fittings Series KQ2

Applicable Tubing: Inch Size

Connection Thread: Rc, G, NPT, NPTF

New-stand male thread for piping that reduces the screw-in time by 1/3.





Uni thread ridge shape

A gasket made of a stainless sheet covered with laminated NBR on both sides is seated on the chamfer of a female thread for a perfect sealing construction irrespective of the difference in thread

diameters due to the difference in the types of female threads, variation in tolerance, or difference in the size of chamfer.

(It is applicable to any female thread with an ordinary chamfer.)

A ridge shape has been created as a Uni thread for common applications for Rc, G, NPT and NPTF.

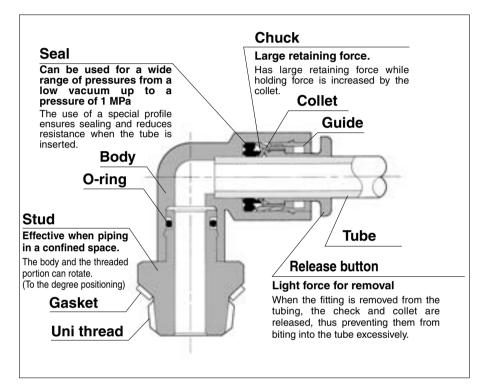
The male thread for piping drastically cuts piping man-hours.



Product's Color

Series	Body	Release button
Series KQ2	White	Orange
Series KQ	Black	Red





Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon (1), Polyurethane
Tubing O.D.	ø1/8", ø5/32", ø3/ ₁₆ ", ø1/ ₄ ", ø5/ ₁₆ ", ø3/ ₈ ", ø1/ ₂ "
11	

Note 1) Soft nylon tubing is not compatible with water.

guaranteed for zero leakage.

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)

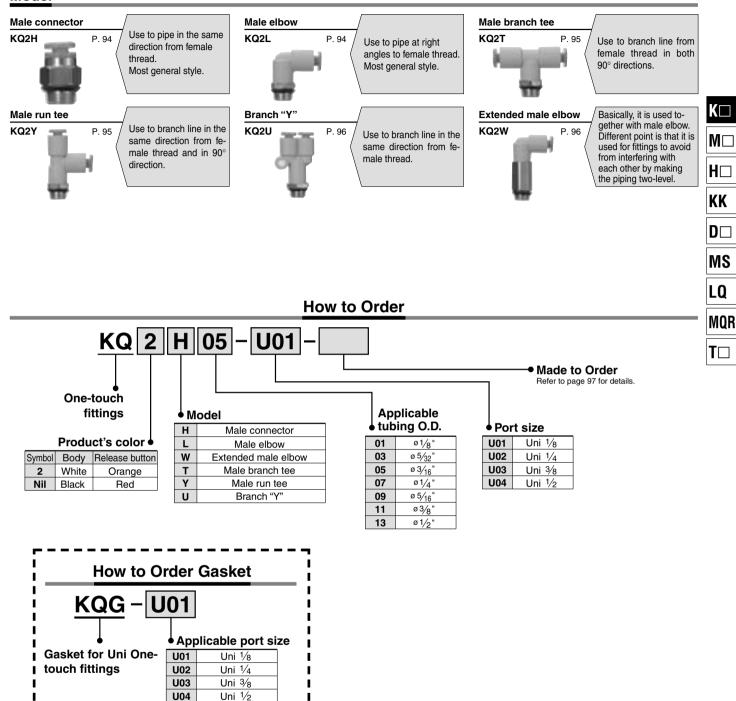
Note 2) The surge pressure must be under the maximum operating pressure.

Note 3) Do not use the fittings with a leak tester or for vacuum retention because they are not

Principal Parts Material

Body	C3604, PBT
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

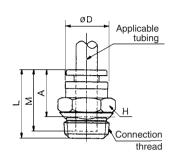
Model



Male Connector: KQ2H



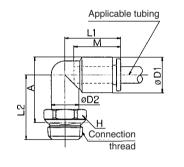
Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	L	A *	М	Min. port size	Mass (g)
1/	1/8	KQ2H01-U01	11.11	18.5	13.5	45.5		7
1/8	1/4	KQ2H01-U02	14.29	16	10	15.5	2.5	10
5/32	1/8	KQ2H03-U01	11.11	18.5	13.5			6
932	1/4	KQ2H03-U02	14.29	16.5	10.5	16	3	10
3/16	1/8	KQ2H05-U01	12.7	18.5	13.5	16	3.5	7
9/16	1/4	KQ2H05-U02	14.29	17	11	- 16	ა.5	9
	1/8	KQ2H07-U01	12.7	22.5	17.5		4.6	9
1/4	1/4	KQ2H07-U02	14.29	20.5	14.5	17		11
	3/8	KQ2H07-U03	17.46	17.5	11.5			16
	1/8	KQ2H09-U01	14.00	25	20.5			12
5/16	1/4	KQ2H09-U02	14.29	21.5	15.5	18.5	6	9
	3/8	KQ2H09-U03	17.46	19.5	13.5			16
	1/4	KQ2H11-U02	17.46		00			19
3/8	3/8	KQ2H11-U03	17.40	28	22	21	7	16
	1/2	KQ2H11-U04	22.23	22	14			30
	1/4	KQ2H13-U02		30	24		9	33
1/2	3/8	KQ2H13-U03	22.23	28.5	22.5	22		30
	1/2	KQ2H13-U04		25	17		9.6	28



Male Elbow: KQ2L



Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)		ø D2	L1	L2	A *	M	Min. port size	Mass (g)
1/8	1/8	KQ2L01-U01	11.11		4.0	47.5	20	20.5	45.5	ا م ا	6
	1/4	KQ2L01-U02	14.29	9.6	10	17.5	22	21	15.5	2.5	13
5/32	1/8	KQ2L03-U01	11.11		10	18	20	21.5	16	3	7
932	1/4	KQ2L03-U02	14.29	10.4			22.5	21.5			13
3/	1/8	KQ2L05-U01	11.11	11.4	10	19.5	20.5	22.5	16	3.5	8
3/16	1/4	KQ2L05-U02	14.29				23	22.5			14
1/4	1/8	KQ2L07-U01	11.11		10	20.5	21.5	24 24.5 25	17	4.6	8
	1/4	KQ2L07-U02	14.29	13.2			23.5				15
	3/8	KQ2L07-U03	17.46				24.5				21
	1/8	KQ2L09-U01	12.7		12	23.5	22.5	25.5		6	10
5/16	1/4	KQ2L09-U02	14.29	15.2			24.5	26.5	18.5		15
	3/8	KQ2L09-U03	17.46				25.5	27			17
	1/4	KQ2L11-U02					26.5	29.5			18
3/8	3/8	KQ2L11-U03	17.46	17.9	17	25.5	27	30	21	7	22
	1/2	KQ2L11-U04					30	31			41
	1/4	KQ2L13-U02	17.46				28.5	33		9	23
1/2	3/8	KQ2L13-U03	17.40	21.7	17	28	28.5	33.5	22		31
	1/2	KQ2L13-U04	22.23				32	35		9.6	44



^{*} Reference dimensions after Uni thread installation.

^{*} Reference dimensions after Uni thread installation.

Inch-size Uni One-touch Fittings $\,$ Series $\,$ KQ2

Male Branch Tree: KQ2T



Applicable tubing O.D.	thread	Model	H (Width across	ø D 1	ø D2	L1	L2	A *	М	Min. port	Mass (g)
(inch)	Uni thread		flats)							size	(9)
1/8	1/8	KQ2T01-U01	11.11	9.6	10	17.5	20	21	15.5	2.5	88
78	1/4	KQ2T01-U02	14.29	9.0	10		22				15
5/32	1/8	KQ2T03-U01	11.11	10.4	10	18	20	21.5	4.0	3	9
9/32	1/4	KQ2T03-U02	14.29				22.5	21.5	16		15
3/16	1/8	KQ2T05-U01	11.11	11.4	10	19.5	20.5	22.5	16.5	3.5	10
9/16	1/4	KQ2T05-U02	14.29	9			23	22.5	16.5		16
1/4	1/8	KQ2T07-U01	11.11		10	20.5	21.5	24	17	4.6	10
	1/4	KQ2T07-U02	14.29	13.2			23.5	24.5			17
	3/8	KQ2T07-U03	17.46				24.5	25			24
	1/8	KQ2T09-U01	12.7			23.5	22.5	26	18.5	6	14
5/16	1/4	KQ2T09-U02	14.29	15.2	12		24.5	26.5			19
	3/8	KQ2T09-U03	17.46				25.5	27			25
	1/4	KQ2T11-U02	17.46			25.5	26.5	29.5			24
3/8	3/8	KQ2T11-U03	17.46	17.9	17		27	30	21	7	27
	1/2	KQ2T11-U04	22.23				30	31			46
	1/4	KQ2T13-U02	17.46				00.5	33		9	29
1/2	3/8	KQ2T13-U03	17.46	21.7	17	28	28.5	33.5	22		32
	1/2	KQ2T13-U04	22.23				32	35		9.6	51
* Referen	ce dime	ensions after l	Jni thr	ead ir	nstalla	tion.					

² x applicable tubing

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KK

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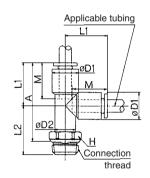
MQR

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Male Run Tree: KQ2Y



Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
1/	1/8	KQ2Y01-U01	11.11		,	47.5	20	33.5	45.5		8
1/8	1/4	KQ2Y01-U02	14.29	9.6	10	17.5	22	33.5	15.5	2.5	15
5/32	1/8	KQ2Y03-U01	11.11				20	34			9
932	1/4	KQ2Y03-U02	14.29	10.4	10	18	22.5	34.5	16	3	15
3/16	1/8	KQ2Y05-U01	11.11	11.4	10	10.5	20.5	36	10.5	3.5	10
9/16	1/4	KQ2Y05-U02	14.29	11.4		19.5	23	36.5	16.5		16
	1/8	KQ2Y07-U01	11.11	13.2	2 10	20.5	21.5	38		4.6	10
1/4	1/4	KQ2Y07-U02	14.29				23.5	37.5	17		17
	3/8	KQ2Y07-U03	17.46				24.5	39			24
	1/8	KQ2Y09-U01	12.7				22.5	42			14
5/16	1/4	KQ2Y09-U02	14.29	15.2	15.2 12	23.5	24.5	42	18.5	6	19
	3/8	KQ2Y09-U03	17.46				25.5	43			25
	1/4	KQ2Y11-U02	47.40				26.5	46			24
3/8	3/8	KQ2Y11-U03	17.46	17.9	17	25.5	27	46.5	21	7	27
	1/2	KQ2Y11-U04	22.23				30	47.5	1		46
	1/4	KQ2Y13-U02	17.46				28.5	E0 E		9	29
1/2	3/8	KQ2Y13-U03		21.7	17	17 28	3 28.5	50.5	22		32
	1/2	KQ2Y13-U04	22.23				32	52		9.6	51



^{*} Reference dimensions after Uni thread installation.

Series KQ2

Branch "Y": KQ2U



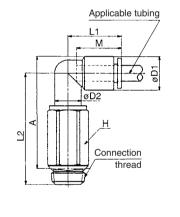
Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	ø D	L	P	A *	М	Min. port size	Mass (g)
1/	1/8	KQ2U01-U01	12.7		38.5		34.5	45.5	2.5	10
1/8	1/4	KQ2U01-U02	14.29	9.6	40.5	9.6	34.5	15.5		
5/32	1/8	KQ2U03-U01	12.7	40.4	40	40.4	36	16	3	40
932	1/4	KQ2U03-U02	14.29	10.4	42	10.4	36			12
3/16	1/8	KQ2U05-U01	12.7	11.4	42	11.4	38	16.5	3.5	14
916	1/4	KQ2U05-U02	14.29	11.4	44.5	11.4	39			
1/4	1/8	KQ2U07-U01	14 29	13.2	44.5	13.2	40.5	17	4.6	15
	1/4	KQ2U07-U02			46		40			
	3/8	KQ2U07-U03	17.46		46.5		40.5			
	1/8	KQ2U09-U01		15.2	50.5	15.2	46.5	18.5	6	20
5/16	1/4	KQ2U09-U02			52		46			18
	3/8	KQ2U09-U03			51.5		45.5			25
	1/4	KQ2U11-U02	19.05		56.5		50.5			37
3/8	3/8	KQ2U11-U03	19.05	17.9	56.5	17.9	50.5	21	7	32
	1/2	KQ2U11-U04	22.23		59		51			38
	1/4	KQ2U13-U02								26
1/2	3/8	KQ2U13-U03	22.23	21.7	61	21.7	55	22	9.6	30
	1/2	KQ2U13-U04			62.7		54.7			50
* Reference dimensions after Uni thread installation										

Applicable tubing

Extended Male Elbow: KQ2W



	Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
	1/	1/8	KQ2W01-U01	11.11		4.0	17.5	34.5	34	45.5	2.5	17
	1/8	1/4	KQ2W01-U02	14.29	9.6	10		36.5	35.5	15.5		26
	5/32	1/8	KQ2W03-U01	11.11	40.4		18	34.5	35.5		3	18
	932	1/4	KQ2W03-U02	14.29	10.4	10		37	36.1	16		26
	3/16	1/8	KQ2W05-U01	11.11	11.4		19.5	35	36	16.5	3.5	19
	916	1/4	KQ2W05-U02	14.29	11.4	10	19.5	40	39.5			27
		1/8	KQ2W07-U01	11.11			20.5	36	37.5	17	4.6	21
	1/4	1/4	KQ2W07-U02	14.29	13.2	10		41	41.5			31
		3/8	KQ2W07-U03	17.46				41.5	42			39
		1/8	KQ2W09-U01	12.7	15.2			43.5	46.5	18.5	6	26
	5/16	1/4	KQ2W09-U02	14.29		12	23.5	45.5	47			35
		3/8	KQ2W09-U03	17.46				46	48			39
		1/4	KQ2W11-U02	17.46				52.5	55.5			59
	3/8	3/8	KQ2W11-U03	17.40	17.9	17	25.5	52	55	21	7	55
		1/2	KQ2W11-U04	22.23				54.5	55.5			97
		1/4	KQ2W13-U02	17.46				E1			9	64
	1/2	3/8	KQ2W13-U03		21.7	17	28	54 59	59	22	0.0	64
		1/2	KQ2W13-U04	22.23				56			9.6	100



^{*} Reference dimensions after Uni thread installation.

Series KQ2

Made to Order Specifications Please contact SMC for detailed dimensions, specifications, and delivery.



1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X29	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Copper-free (With electroless nickel plated)
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Clean (Copper-free, air blow, double package, resin body: white)

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KK

 $\mathbf{D} \sqcap$

MS

LQ

MQR

$\mathsf{T}\Box$

2 Other Specifications

Symbol	Specifications			
X2	Copper-free (With electroless nickel plated)			
X12	Lubricant: White Vaseline Release button color: White			
X41	With fixed throttle Note)			

Note) Compatible with male connector and male elbow only Consult SMC separately for the available fixed throttle diameters.

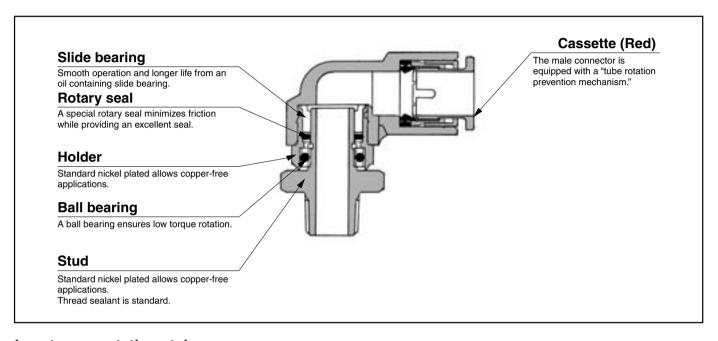
Spare Parts

Description	Part no.	Applicable thread
	KQG-U01	Uni 1/8
Gasket	KQG-U02	Uni 1/4
Gaskei	KQG-U03	Uni 3/8
	KQG-U04	Uni 1/2

Inch-size Rotary One-touch Fittings Standard Type

Series KS

Applicable Tubing: Inch Size



Low-torque rotation style rotary One-touch fittings Applicable to use for oscillating and rotating sections in robots.

Applicable to non-copper type (With electroless nickel plated)

Thread sealant is standard.



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø ⁵ / ₃₂ ", ø ¹ / ₄ ", ø ⁵ / ₁₆ ", ø ³ / ₈ "

Specification

Fluid	Air
Operating pressure range 1)	-100 kPa to 1 MPa
Proof pressure	3 MPa
Ambient and fluid temperature	−5 to 60°C (No freezing)
Thursd	ANSI/ASMEB1. 20. 1 (NPT thread)
Thread	JIS B 0212 (UNF thread)



Note 1) Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Also, when using in a vacuum, grease may enter the inside due to the nature of its construction.

Rotating Torque/Allowable Number of Rotations

Applicable tubing O.D.	ø5/ ₃₂ "	ø¹/4"	ø5/16"	ø3/8"
Rotating torque (N·m) (2)	0.006	0.012	0.014	0.020
Allowable number of rotations (S-1) (3)	8.3	8.3	6.7	5

Note 2) Rotating torque under pressure 0.5 MPa

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

Principal parts	Series KS
Body	PBT
Stud, Holder, Guide	Stainless steel 304, C3604 (With electroless nickel plated), PBT
Chuck, Retainer	Stainless steel 304
Collet, Release button, Snap ring	Polyacetal
O-ring, Packing	NBR
Rotary seal	NBR
Slide bearing	Oil-containing polyacetal
Scraper	_
Ball bearing	Bearing steel
Gasket	Stainless steel 304, NBR

Series KS

Model	Connection thread	Applicable tubing O.D. (inch)							
Model	Connection thread	ø5/32"	ø1/4 "	ø ⁵ /16"	ø ³ /8"				
	1	,							
Male connector KSH	10-32 UNF	+							
Ü	NPT ½	+	<u> </u>	•					
	NPT 1/4		<u> </u>	•					
-	NPT 3/8				<u> </u>				
Male elbow KSL	10-32 UNF	—							
	NPT ½	—		<u> </u>					
#	NPT 1/4			<u> </u>					
	NPT 3/8								

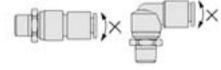
APrecautions

Be sure to read before handling.

Refer to front matters 58 and 59 for Safety Instructions and pages 13 to 16 for Fittings and Tubing Precautions.

∧ Caution

 Implement the tube piping in such a way that lateral load should not be applied on the ball bearings at the rotating part, otherwise it may adversely affect the life expectancy.
 A flexible polyurethane tube is recommended when lateral load is applied.



- Do not use in an environment where it will be exposed to water.Contact with water will cause outflow of the lubricating oil used in the ball bearings, and adversely affect rotating performance and equipment lifespan.
- 3. Fluorine based grease is used on the rotating portions.



















Series KS

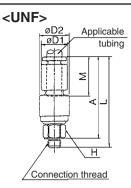
Male Connector: KSH (Standard)

<UNF>



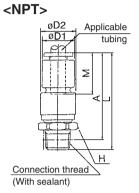
		•											
	Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	(Width across flats)	D1	D2	L	A *	М	Min. port size	Effectiv (mi Nylon	m²)	Mass (g)
	5/32	10-32 UNF	KSH03-32	8	10.4	12	36.5	33	16	2.5	4.0	4.0	9
		1/8	KSH03-34S	12.7			37.6	34.5					14
1/4	1/8	KSH07-34S	14.29	13.2	14	38.6	35.5	17	4	13.4	10.4	17	
	74	1/4	KSH07-35S	14.29	10.2	14	42	36.5	17	-	13.4	10.4	23
	5/16	1/8	KSH09-34S	17.46	15.2	17	43.1	40	18.5	6	26.1	18.0	23
3/16	1/4	KSH09-35S	17.40	15.2	17	46.5	41	10.5	0	20.1	10.0	29	
3/8	1/4	KSH11-35S	22.23	17.9	17.9 22	53.5	48	21	7	36.3	29.5	55	
	3/8	KSH11-36S	22.20			53.9	48.5					63	
	* Reference dimensions after NPT thread installation												

^{*} Reference dimensions after NPT thread installation.



<NPT>





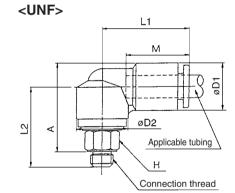
Male Elbow: KSL (Standard)

-11	N	F>
V	1.4	_



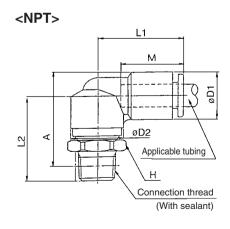
	Applicable tubing	thread	Model	H (Width	D1	D2	L1	L2	Δ*	м	Min. port	Effectiv (m)		Mass	
	O.D. (inch)	UNF NPT	Model	across flats)								Nylon	Urethane	(g)	
	5/32	10-32 UNF	KSL03-32	8	10.4	12	21	20.5	22	16	2.5	3.5	3.5	9	
l	9/32	1/8	KSL03-34S	12.7	10.4	12	21	21.1	23.5	16	2.5	3.5	3.5	14	
	1/4	1/8	KSL07-34S	14.29	13.2	14	23.5	22.1	25.5	17	4	8.6	8.6	17	
	'/4	1/4	KSL07-35S	14.29	13.2	14	23.5	25.5	26.5	17	4	0.0	0.0	23	
	5/16	1/8	KSL09-34S	17.46	15.2	17	26	25.6	30	18.5	6	21.6	14.9	23	
	9/16	1/4	KSL09-35S	17.40	15.2	17	20	29	31	10.5	0	21.0	14.9	29	
	3/8	1/4	KSL11-35S	22.23	17.9	22	31.5	33.5	37	21	7	30.5	25.0	56	
	9/8	3/8	KSL11-36S	22.20	17.9	22	31.5	33.9	38	21	′	30.5	25.0	64	

^{*} Reference dimensions after NPT thread installation.



<NPT>





Inch-size One-touch Fittings Manifold Series KM

Applicable Tubing: Inch size

Compact piping possible. Manifold piping possible. Many varieties (12 types) are available. One-touch fittings give the most efficient operation.

KM11

Model

	-						
Model	Por	ting	No. of	Port B	Р	ort A siz	ze
Model	Port A	Port B	Port A	size	ø5/32"	ø 1/4"	ø5/ ₁₆ "
				ø 5/16"	•		
KM11	One-touch fitting	One-touch fitting	6, 10	ø3/8"		•	
				ø 1/2"			•
KM12	One-touch fitting	NPT thread	6 10	NPT 1/4	•	•	
IXIVI I Z	One-touch litting	INFILITEAU	6, 10	NPT 3/8			•

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon (1), Polyurethane
Tubing O.D.	ø5/32", ø1/4", ø5/16", ø3/8", ø1/2"

Note 1) Soft nylon tubing is not compatible with water.

Specifications

Model	KM11	KM12				
Fluid	Air/Water (2)					
Maximum operating pressure	1 N	1 Pa				
Proof pressure	3 MPa					
Ambient and fluid temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)					
Thread	_	ANSI/ASMEB1.20. 1-1983 (NPT thread)				



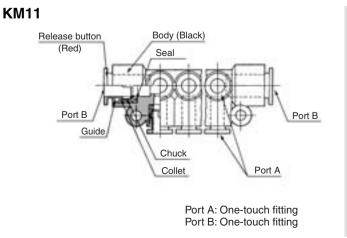
Note 2) The surge pressure must be under the maximum operating pressure.

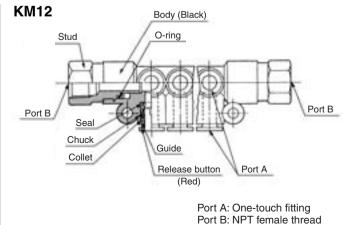


Principal Parts Material

Model	KM11	KM12				
Body	PI	BT .				
Stud	-	C3604				
Chuck	Stainless	Stainless steel 304				
Guide	Stainless stee	el 304, C3604				
Collet, Release button	PC	MC				
Seal, O-ring	NI	3R				

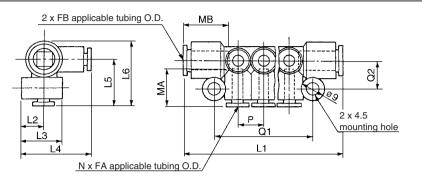
Construction





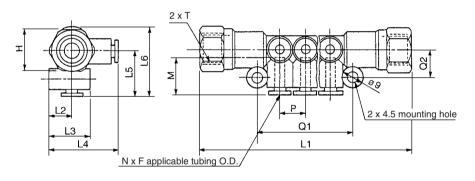
Dimensions

KM11



Applicable tubing O.D. (inch)		Madal	N	L1	L2	L3	L4	L5	L6	Р	Q1	Q2	МА	МВ	Port B	Mass
FA	FB	Model	IN	LI	LZ	LJ	L4	Lo	LO	r	QI	Q2	IVIA	IVID	Min. port size	(g)
5/32	5/16	KM11-03-09-6	6	65	10	10	20 5	29.5 19.5	27	10.6	40	12	16	18.5	6	19
9/32	9/16	KM11-03-09-10	10	86	10	18	29.5				61.5	12	16			26
17.	3/8	KM11-07-11-6	6	77.8	10	10.5	9.5 31.5	21.5	30.5	13.2	48	13	17	21	7	30
1/4		KM11-07-11-10	10	104	10	19.5					73.5	13	17			40
5/	1./.	KM11-09-13-6	6	85	85 10.7	23.7	37.7	25	35.9	15.2	52.8	15 1	18.5	22	9.5	41
5/16	1/2	KM11-09-13-10 10 115 12.7 23	23.7	23.1 31.1		33.9	15.2	83	15	10.5	22	9.5	57			

KM12



Applicable tubing O.D. F (inch)	Connection thread NPT	Model	N	(Width across flats)	L1	L2	L3	L4	L5	L6	Р	Q1	Q2	М	Port B Min. port size	Mass (g)
5/32	1/4	KM12-03-35-6	6	17.46	87	10	18	29.5	19.5	29	10.6	40	12	16	6	65
9/32	74	KM12-03-35-10	10	17.46	110	10 18	29.5	19.5	29	10.0	61.5	12	10	0	72	
1/.	1/4	KM12-07-35-6	6	17.46	95	10	10.5	31.5	01 5	31.25	13.2	48	13	17	7	82
1/4	74	KM12-07-35-10	10	17.40	121	10	19.5	31.5	21.5	31.23	13.2	73.5	13	17	,	92
5/	3/	KM12-09-36-6	6	22.22	102	12.7	23.7	37.7	25	37.5	15.2	52.8	15	18.5	9.5	97
5/16	3/8	KM12-09-36-10	10	22.22	132	12.7	23.7	37.7	25	37.3	13.2	83	13	10.5	9.5	112

Handling of One-touch Fittings

⚠ Caution

Refer to P. 15 "Fittings & Tubing Precautions" for the details of installation/removal of One-touch fittings.

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KK

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MS

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Series KM

Made to Order Specifications Please contact SMC for detailed dimensions, specifications, and delivery.



1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X29	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Copper-free (With electroless nickel plated)
X94	Grease-free Rubber material: FKM (With fluorine coating) Release button color: Light blue

Suffix "-X17" to the end of part number.

Example) KM11-03-09-10-X17

2 Other Specifications

Symbol	Specifications					
X2 Copper-free (With electroless nickel plated)						
X12	Lubricant: White Vaseline Release button color: White					
X34	X34 Rubber material: FKM					

Suffix "-X2" to the end of part number.

Exampe) KM11-03-09-6-X2

Inch-size Rectangular Multi-connector Series KDM

No. of Connecting Tubes: 10, 20

Multi-connector is effective in saving labor for separate transportation of the panel and the machine, and for exchanging units due to failure.

Substantial reduction in mounting space

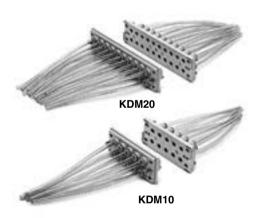
In comparison with a model requiring many union joints for panels and partitions, this model needs only a small space.

One-touch connection/disconnection of connector

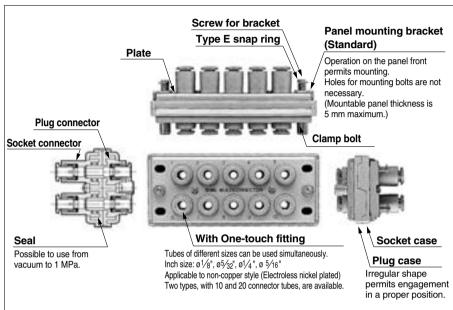
Multiple pipes can be connected/disconnected in one-touch operation without connection error. Thus man-hours for connection/dis-connection are cut down substantially.

One-touch tube connection

One-touch fittings substantially cuts down man-hours for piping.







Model

No. of connecting tubes	Tubing O.D.	Model	Weight (g)	Color of release button
	ø ½"	KDM10-01		
10	ø 5/32 "	KDM10-03	300	
10	ø 1/4"	KDM10-07		
	ø 5/ ₁₆ "	KDM10-09	520	Red
	ø 1/8"	KDM20-01		ried
20	ø 5/32 "	KDM20-03	520	
20	ø 1/4"	KDM20-07		
	ø 5/ ₁₆ "	KDM20-09	950	

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø ¹ / ₈ ", ø ⁵ / ₃₂ ", ø ¹ / ₄ ", ø ⁵ / ₁₆ "

Specifications

Fluid	Air
Operating pressure range Note)	-100 kPa to 1 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	−5 to 60°C (No freezing)
•	

Note) Please avoid using in a vacuum holding application such as a leak tester, since there is leakage.

Principal Parts Material

Plug case, Socket case		POM	
Plate, Bracket		SPCC plated	
Plug connector, Socket connector	Body	PBT, C3604BD Electroless nickel plated (ø5/16)	
	Chuck	Stainless steel 304	
	Guide	Stainless steel 304, C3604BD Electroless nickel plated, POM (ø5/16)	
	Collet, Release button	POM	
	Seal	NBR	
Clamp bolt, Screw for bracket, Cross-recessed head machine screw		SWRM (Nickel plated)	
Type E snap ring		Stainless steel 304	

Model

No. of connection	Tubing	Model		Color of
tubes	O.D.	Plug	Socket	release button
10	ø ½"	KDM10P-01	KDM10S-01	
	ø 5/ ₃₂ "	KDM10P-03	KDM10S-03	
	ø 1/4"	KDM10P-07	KDM10S-07	
	ø 5/16 "	KDM10P-09	KDM10S-09	Red
20	ø ½"	KDM20P-01	KDM20S-01	neu
	ø 5/32 "	KDM20P-03	KDM20S-03	
	ø 1/4"	KDM20P-07	KDM20S-07	
	ø 5/16 "	KDM20P-09	KDM20S-09	

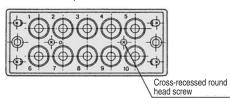
Mixed Sizes of Plug Connectors and Socket Connectors

The rectangular multi-connector permits connector exchange in any desired position, thus allowing use of different sizes of tubes.

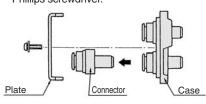
Model

Connector	Tubing O.D.	Model	Color of release button
Plug connector	ø 1/8"	KDMP-01	
	ø 5/ ₃₂ "	KDMP-03	
	ø 1/4"	KDMP-07	
	ø 5/ ₁₆ "	KDMP-09	Red
Socket connector (with seal)	ø ½"	KDMS-01	neu
	ø 5/ ₃₂ "	KDMS-03	
	ø 1/4"	KDMS-07	
	ø 5/16 "	KDMS-09	

 Loosen the cross-recessed head machine screw by using a Phillips screwdriver to remove the plate from the case.



After exchanging connectors in desired places, fix the plate to the case by using a Phillips screwdriver.

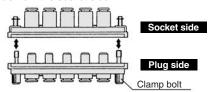


How to Use

△ Caution

Separation

Loosen the clamp bolt to separate the plug side from the socket side.



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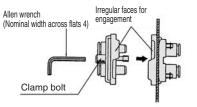
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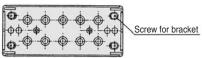
Connection

Put together the irregular faces for engagement and connect the plug case to the socket. After tightening the clamp bolt by hand, tighten it further with allen wrench (nominal width across flats: 4).

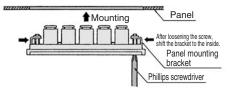


Panel mounting

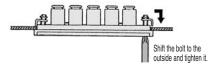
 Loosen (4) screws for bracket on the socket side using a Phillips screwdriver (JIS nominal No. 2) until the bracket touches the stop ring.



Shift the panel mounting bracket to the inside (Move the screw for bracket in the longitudinal direction of the slot) and put the connector in the panel mounting hole. (Panel-mounting hole: See Dimensions.)

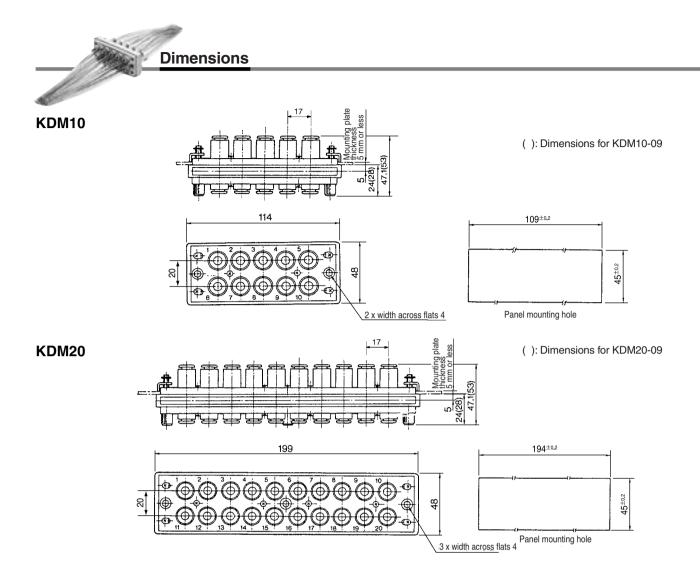


After shifting the bolt for bracket to the outside, tighten the bolt by a Phillips screwdriver to fix the socket case.



4. Loosen the screw for bracket until the bracket touches the stop ring and shift the bracket to the inside to remove the connector from the panel.

Series KDM



Handling of One-touch Fittings

⚠ Caution

Refer to "Fittings & Tubing Precautions" for the details of installation/removal of One-touch fittings on the page 15.

Series KDM

Made to Order Specifications



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MS

LQ

MQR

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Please contact SMC for detailed dimensions, specifications, and delivery.

1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Clean (Copper-free, air blow, double package)

Suffix "-X17" to the end of part number.

Example) KDM10-03-X17

2 Other Specifications

Symbol	Specifications	
X12	Lubricant: White Vaseline Release button color: White	

3 Mixed Tubing Size Type

■ Mixed Tubing Size Type

Mixed tubing size manifolds are available to meet your individual requirements. Please consult with SMC for availability.