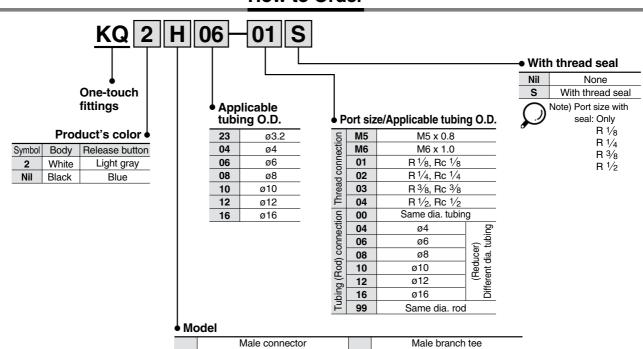


# One-touch Fittings Series KQ2

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

#### **How to Order**



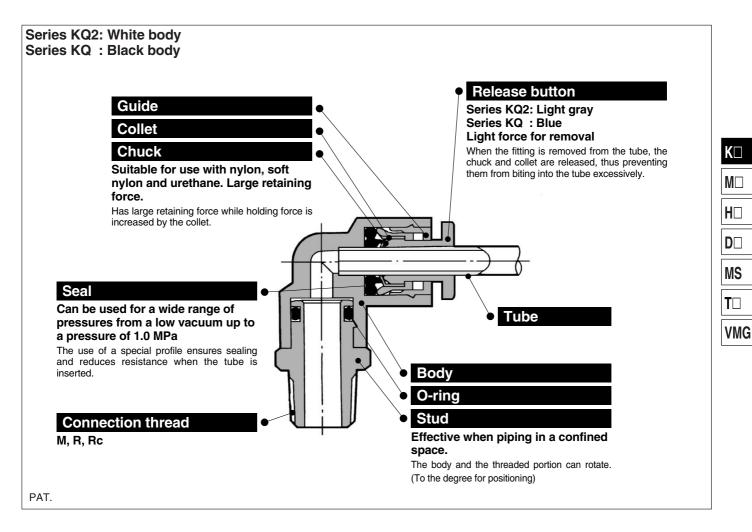
Accessory								
Symbol Name								
	Nipple							
KQ2N	Reducer nipple							
	Adaptor							
KQ2C	Tube cap							
KQ2C	Color cap							
KQ2P	Plug (White)							
KQP	Plug (Blue)							

Use the below part number to order the gasket for M5 and M6 threads. Gasket for M5 thread: M-5G2 Gasket for M6 thread: M-6G

● Me	odel		
	Male connector		Male branch tee
н	Straight union	Т	Union tee
	Different diameter straight		Different diameter tee * Note)
S	Hex. socket head male connector	TW	Cross*
F	Female connector	TX	Different diameter cross*
	Male elbow	TY	Different diameter cross*
	Union elbow	Υ	Male run tee
L	Plug-in elbow	_	Male delta union
	Reducer elbow	D	Delta union
	Male branch connector		Branch
LU	Branch union elbow		Union "Y"
K	45° male elbow	U	Different dia. union "Y"
٧	Universal male elbow		Plug-in "Y"
vs	Hexagon socket head universal male elbow	IID.	Delta branch
۷F	Universal female elbow	UD	Different dia. double union "Y"
LF	Female elbow	XD	Double plug-in "Y"
۷D	Double universal male elbow	Х	Different diameter plug-in "Y"
VT	Triple universal male elbow	R	Plug-in reducer
Z	Branch universal male elbow	_	Bulkhead union
ZF	Branch universal female elbow	Е	Bulkhead connector
ZD	Double branch universal male elbow	LE	Bulkhead male elbow
ZT	Triple branch universal male elbow		
١٨/	Extended plug-in elbow		
W	Extended male elbow		

 \* Available only for white color body.
 Note) KQT06-04, KQT08-06, KQT10-08, and KQT12-10 are available as made to order.





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

- Applications for metric size tubing
- Applicable tubing material-Nylon, Soft nylon, **Polyurethane**



Tubing material	Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16

#### **Product's Color**

Series	Body	Release button
Series KQ2	White	Light gray
Series KQ	Black	Blue

#### Specifications

opecinications —										
Fluid		Air/Water Note)								
Maximum operating	pressure	1.0 MPa								
Operating vacuum	pressure	−100 kPa								
Proof pressure		3.0 MPa								
Ambient and fluid to	emperature	-5 to 60°C, Water: 0 to 40°C (No freezing)								
Thread	Mounting section	JIS B 0203 (Taper thread for piping) JIS B 0209 Class 2 (Metric coarse thread)								
	Nut section	JIS B 0211 Class 2 (Metric fine thread)								
Seal (Thread portio	n)	With seal or none								
<u> </u>										

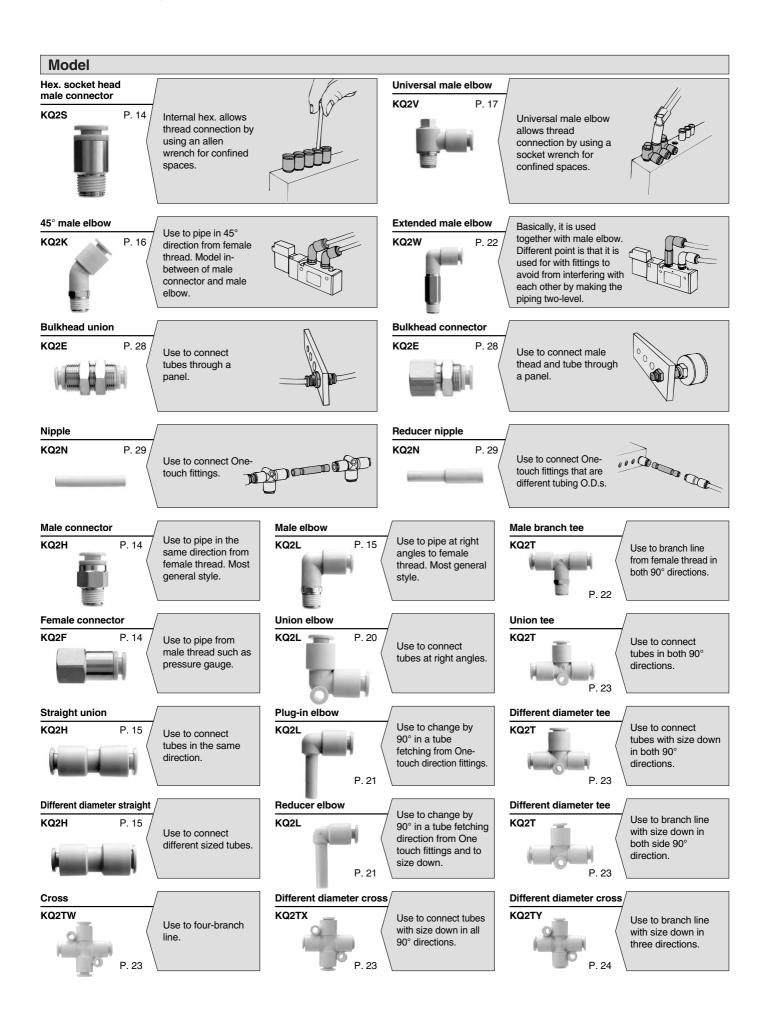
Note) Applicable for general industrial water. Please consult with SMC if using for other kinds of fluid. Also, the surge pressure must be under the maximum operating pressure.

#### **Principal Parts Material**

Body	C3604BD, PBT, PP						
Stud	C3604BD (Thread portion)						
Chuck	Stainless steel 304						
Guide	Stainless steel 304, C3604BD, POM						
Collet, Release button	POM						
Seal, O-ring	NBR						
Gasket	Stainless steel 304, NBR						



### Series KQ2



## One-touch Fittings Series KQ2

#### **Union Tee: KQ2T**



Applicable tubing O.D.	Model	øD <sup>(1)</sup>	L	Q	М	(m	Effective area <sup>(2)</sup> (mm²)		
(mm)						Nylon	Urethane	(g)	
3.2	KQ2T23-00	9.6	17.5	4.3	15.5	3.4	2.9	5	
4	KQ2T04-00	10.4	18	4.5	16	6.4	4.4	7	
6	KQ2T06-00	12.8	20	5.3	17	13.4	10.6	10	
8	KQ2T08-00	15.2	23	6	18.5	25.6	17.7	15	
10	KQ2T10-00	18.5	26.5	6.8	21	40	28.4	25	
12	KQ2T12-00	20.9	28.5	7.5	22	57.4	45.4	29	
16	KQ2T16-00	26.5	34	10	25	100	(84)	40	

3-applicable tubing

 $\mathsf{K}\square$ 

 $\mathsf{M}\square$ 

 $H\square$ 

 $\mathsf{D}\Box$ 

MS

 $\mathsf{T}\Box$ 

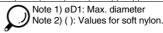
**VMG** 

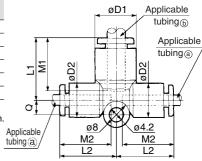
Note 1) ØD: Max. diameter Note 2) ( ): Valves for soft nylon.

#### **Different Diameter Tee: KQ2T**



Applicab O.D.	le tubing (mm)	Model	øD1	øD2	L1	L2	Q	M1	M2		e area <sup>(2)</sup> m²)	Weight
<b>a</b>	<b>b</b>									Nylon	Urethane	(g)
3.2	4	KQ2T23-04	10.4	9.6	18	17.5	4.3	16	15.5	3.8	3.5	5
4	6	KQ2T04-06	12.8	10.4	19.5	18	4.5	17	16	7.1	6.5	5
6	8	KQ2T06-08	15.2	12.8	22.5	20	5.3	18.5	17	16.4	16.4	8
8	10	KQ2T08-10	18.5	15.2	26.5	23	6	21	18.5	36	27.2	14
10	12	KQ2T10-12	20.9	18.5	28.5	26.5	6.8	22	21	56	44.5	21
12	16	KQ2T12-16	26.5	26.5	34	39	10	25	22	108.5	(92.2)	88





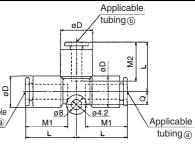
#### **Different Diameter Tee: KQ2T**



O.D. (mm)		Model	Note) ØD	L	Q	М1	M2	Lifective area (mm²)		Weight	
<b>a</b>	<b>b</b>							Nylon	Urethane	(g)	
6	4	KQ2T06-04	12.8	20	5.3	17	16	6.4	4.4	10	
8	6	KQ2T08-06	15.2	23	6	18.5	17	13.4	10.6	15	
10	8	KQ2T10-08	18.5	26.5	7.5	21	18.5	25.6	17.7	25	
12	10	KQ2T12-10	20.9	28.5	7.5	22	21	40	28.4	29	

5 22 21 40 28.4 29 5 Note) ØD: Max. diameter

Applicable tubing @

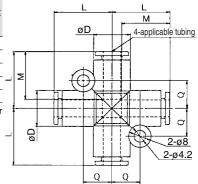


#### **Cross: KQ2TW**



Applicable tubing O.D.	Model	Note) Ø <b>D</b>	L	Q	М	Effective area (mm²)		Weight	
(mm)						Nylon	Urethane	(g)	
4	KQ2TW04-00	10.4	18	8.7	16	6.4	4.4	9	
6	KQ2TW06-00	12.8	20	9.9	17	13.4	10.6	13	
8	KQ2TW08-00	15.2	23	11.1	18.5	25.6	17.7	20	
10	KQ2TW10-00	18.5	26.5	12.8	21	40	28.4	33	_
12	KQ2TW12-00	20.9	28.5	13.9	22	57.4	45.4	39	

Note) øD: Max. diameter



#### **Different Diameter Cross: KQ2TX**



Ö.D.	le tubing (mm)	Model	øD Note)		L	Q	M1	M2	Effectiv (m)		Weight (g)	
<b>a</b>	<b>(b)</b>							Nylon	Urethane	(9)		
6	8	KQ2TX06-08	15.2	23	11.1	18.5	17	13.4	10.6	13		
8	10	KQ2TX08-10	18.5	26.5	12.8	21	18.5	25.6	17.7	27		
10	12	KQ2TX10-12	20.9	28.5	13.9	22	21	40	28.4	36		

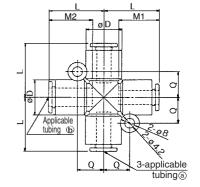
| Nylon | Urethane | (g) | Applicable tubing (a) | Applicable tubing (b) | Applicable tubing (c) | App

## Series KQ2

#### **Different Diameter Cross: KQ2TY**



Applicab O.D.	le tubing (mm)	Model	Note) Ø <b>D</b>	L	Q	M1	M2	Effective area (mm²)		
<b>a</b>	<b>b</b>							Nylon	Urethane	(g)
6	8	KQ2TY06-08	15.2	23	11.1	17	18.5	13.4	10.6	15
8	10	KQ2TY08-10	18.5	26.5	12.8	18.5	21	25.6	17.7	23
10	12	KQ2TY10-12	20.9	28.5	13.9	21	22	40	28.4	35



<M5, M6>

Note) øD: max. diameter

#### Male Run Tee: KQ2Y









<R>



_	-													
	Applicable tubing O.D.	Connection thread	Model	(width across	ø <b>D1</b>	øD2	L1	L2	L3	<b>A</b> *	М	Effective area (2) (mm²) Nylon Urethane		Weight (g)
	(mm)	R		flats)			45.4					-		
	3.2	M5 x 0.8	KQ2Y23-M5	7	8.4	_	15.4	13.2	14.8	24.9	12.7	3.2	2.7	3.2
		1/8	KQ2Y23-01S	10	9.6	10	17.5	21.5	_	35	15.5	3.4	2.9	10
		1/4	KQ2Y23-02S	14				25.5		37				20
	4	M5 x 0.8	KQ2Y04-M5	7	9.3	_	15.6	13.7	14.8	25.4	12.7	4.5	4.5	3.5
		M6 x 1.0	KQ2Y04-M6	8				14.7	14.0					6
		1/8	KQ2Y04-01S	10	10.4	10	18	22	_	36	16	6.4	4.4	13
		1/4	KQ2Y04-02S	14				26		38				19
	6	M5 x 0.8	KQ2Y06-M5	7	7 11.6	_	17.1	14.7	17.1	28.7	13.5	4.5	4.5	4.5
		M6 x 1.0	KQ2Y06-M6	8				15.7		20.7				7
		1/8	KQ2Y06-01S	10	12.8	10	20	23	_	39	17	13.4	10.6	12
		1/4	KQ2Y06-02S	14				27		41				20
		3/8	KQ2Y06-03S	17				29		42.5				34
	8	1/8	KQ2Y08-01S	12	15.2	12	23	24.5	_	43.5	18.5	25.6	17.7	14
		1/4	KQ2Y08-02S	14				28.5		45.5				22
		3/8	KQ2Y08-03S	17				30.5		47				36
	10	1/8	KQ2Y10-01S	17	18.5	17	26.5	27		49.5	21	40.0	28.4	31
		1/4	KQ2Y10-02S					30	_	50.5				29
		3/8	KQ2Y10-03S					32		52				39
		1/2	KQ2Y10-04S	22				36		54.5				66
	12	1/4	KQ2Y12-02S		17 20.9	17	28.5	31	_	53.5	22	57.4	45.4	31
		3/8	KQ2Y12-03S	1/				33		55				41
		1/2	KQ2Y12-04S	22				37		57.5				68
	16	3/8	KQ2Y16-03S	22 2			34	38		65.5	25	81	(81)	112
		1/2	KQ2Y16-04S		26.5	20.9		41		67		113	(113)	

\* Reference dimensions after R thread installation. Note 1) øD: Max. diameter Note 2) (): Values for soft nylon

2-applicable tubing
L1
M
Endowners and the connection

