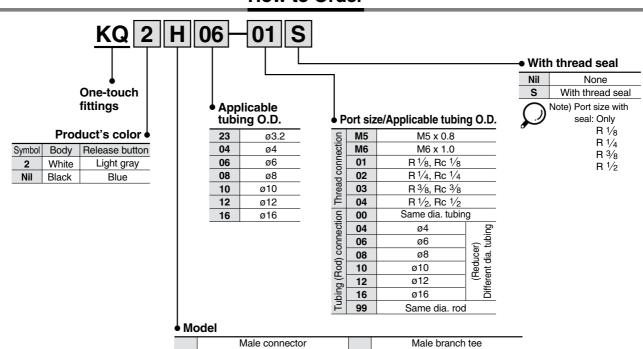


# One-touch Fittings Series KQ2

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

### **How to Order**



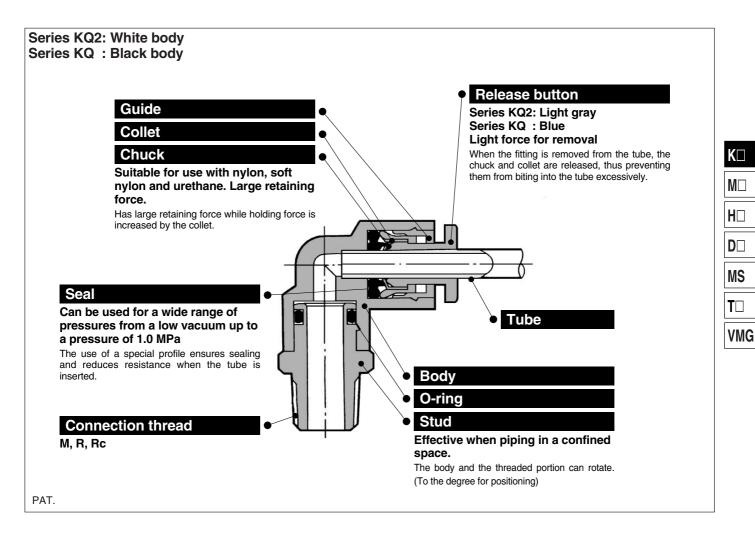
Accessory								
Accessory								
Symbol Name								
Nipple								
KQ2N Reducer nipple								
Adaptor								
KQ2C Tube cap								
KQ2C Color cap								
KQ2P Plug (White)								
KQP Plug (Blue)								

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

	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			
LU	Male branch connector		Branch			
	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	UD	Delta branch			
۷F	Universal female elbow	שט	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	E	Bulkhead connector			
ZD	Double branch universal male elbow	LE	Bulkhead male elbow			
ZT	Triple branch universal male elbow					
147	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 operatin	g pressure	1.0 MPa				
Operating vacuum	pressure	−100 kPa				
Proof pressure		3.0 MPa				
Ambient and fluid t	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 portion	on)	With seal or none				
<u> </u>						

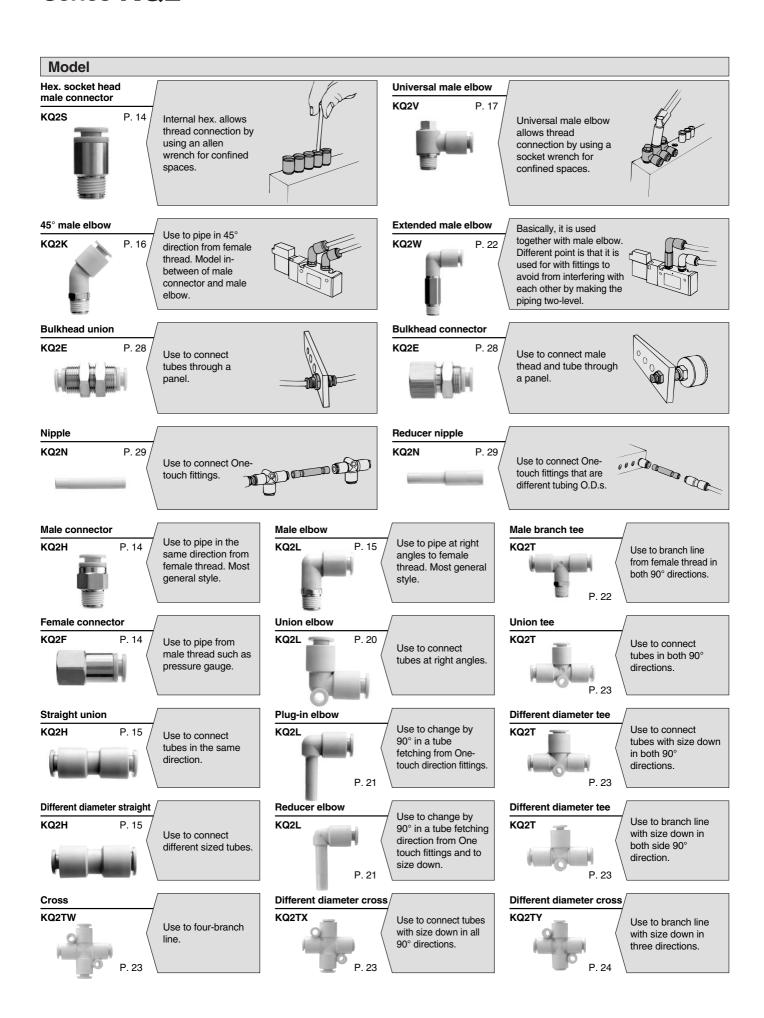
Note) Applicable for general industrial water. Please consult with SMC if using for other kinds of fluid. Also, the surge pressure must be under the maximum operating pressure.

#### **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



## Series KQ2

#### Male Connector: KQ2H

<M5, M6>



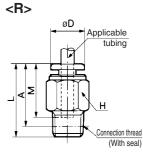






	Applicable tubing O.D.	Connection thread <b>R</b>	Model	H (width across	ø <b>D</b>	L	<b>A</b> *	М	Effective area (2) (mm²)		Weight (g)	
	(mm)		1/001100 145	flats)		10 =	10.0	40 =	Nylon	Urethane		
		M5 x 0.8	KQ2H23-M5	7	7	16.7	13.6	12.7	3	2.5	2.1	
	3.2	1/8	KQ2H23-01S	10		22	18	15.5	3.4	2.9	9	
		1/4	KQ2H23-02S	14	_	19.5	13.5		0.1		16	
		M5 x 0.8	KQ2H04-M5	8	<del>-</del> 8 ⊦	17	13.9	12.7	4	4	2.4	
	4	M6 x 1.0	KQ2H04-M6	8	8	18	10.0				2.5	
	·	1/8	KQ2H04-01S	10	_	22	18	16	5.6	4	9	
		1/4	KQ2H04-02S	14	_	19.5 13.	13.5	10	3.0	7	16	
		M5 x 0.8	KQ2H06-M5	10	10	17.8	14.7	13.5	4	4	3.3	
		M6 x 1.0	KQ2H06-M6	10		19	14.9				3.4	
6	6	1/8	KQ2H06-01S	12	_	22.5	18.5				16	
		1/4	KQ2H06-02S	14	_	23	17	17	13.1	10.4	14	
		3/8	KQ2H06-03S	17	_	22	15.5				27	
		1/8	KQ2H08-01S	14	-	28	24	18.5	26.1	18.0	21	
	8	1/4	KQ2H08-02S			26.5	20.5				19	
		3/8	KQ2H08-03S	17		22	15.5				26	
		1/8	KQ2H10-01S			30	26		26.1	26.1	19	
	10	1/4	KQ2H10-02S	17	17		33.5	27.5	21			30
	10	3/8	KQ2H10-03S		-	29	22.5	2	41.5	29.5	30	
		1/2	KQ2H10-04S	22		27	19				53	
		1/4	KQ2H12-02S	19		34.5	28.5				42	
	12	3/8	KQ2H12-03S	19	19	_	00	23.5	22	58.3	46.1	34
		1/2	KQ2H12-04S	22		30	22				51	
	16	3/8	KQ2H16-03S	24			39.5	33	0.5	81	(81)	61
	16	1/2	KQ2H16-04S		25.7	35.5	27.5	25	113	(96)	47	
	* Reference dimensions after R thread installation.											

<M5, M6> øD Applicable tubina Connection thread



KQ2S16

αD1

Applicable tubing

Applicable

tubing

Connection Connection thread (With sealant) @D2

Note 1) D: Max. diameter Note 2) (): Values for soft nylon.

#### **Hexagon Socket Head Male Connector: KQ2S**

<M5, M6>



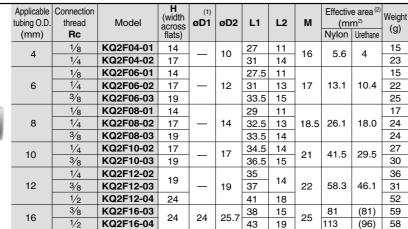




						-										
,	Applicable tubing O.D. (mm)	Connection thread	Model	H (width across	ø <b>D1</b>	øD2	L	<b>A</b> *	М	Effective (mr Nylon		Weight (g)				
	(111111)	M5 x 0.8	KQ2S04-M5	flats) 2.5			18.7	15.6		INVIOIT	Ulethane	2.7				
	4	M6 x 1.0	KQ2S04-M6		8	8	8	8	_	18.2	14.1	12.7	4	4	2.8	
	7	1/8	KQ2S04-01S	3	3 9.8		23	19	16	4.1	3.6	8				
		M5 x 0.8	KQ2S06-M5	2.5			19.5	16.4	13.5			3.3				
		M6 x 1.0	KQ2S06-M6		10		19.1	15		4	4	3.4	_			
	6	1/8	KQ2S06-01S		11.8	<del> </del>	24	20		10.0	9.9	9				
		1/4	KQ2S06-02S	4	4	13.8		24	18	17	10.7	10.0	15	1		
	8	1/8	KQ2S08-01S	5		_	28	24		17.2	10.0	12				
		1/4	KQ2S08-02S	6	14		25.5	19.5	18.5		16.2	11				
		3/8	KQ2S08-03S				27.5	21		23.3		24				
		1/8	KQ2S10-01S	5	17		30	26		17.2	16.2	18				
		1/4	KQ2S10-02S				27.5	21.5			26.6	12				
	10	3/8	KQ2S10-03S			_		21	21	39.0		19				
		1/2	KQ2S10-04S	_			28	20	1			35				
		1/4	KQ2S12-02S	8	ρ		33.5	27.5		46.0		23				
	12	3/8	KQ2S12-03S			19	_	29	22.5	22	60.0	44.5	18			
		1/2	KQ2S12-04S	10	22		28	20		60.0		30				
	16	3/8	KQ2S16-03S	10	25.7	24	39	32.5	0.5	81	(81)	42				
		1/2	KQ2S16-04S	12	25.7	24	35	27	25	113	(96)	34				
	* Reference dimensions after R thread installation.															

dimensions after R thread installation. Note 1) ØD: Max. diameter Note 2) (): Values for soft nylon.

#### Female Connector: KQ2F





<M5, M6> <R>

Applicable

tubing

Connection thread

øD1

KQ2S04 to 12

