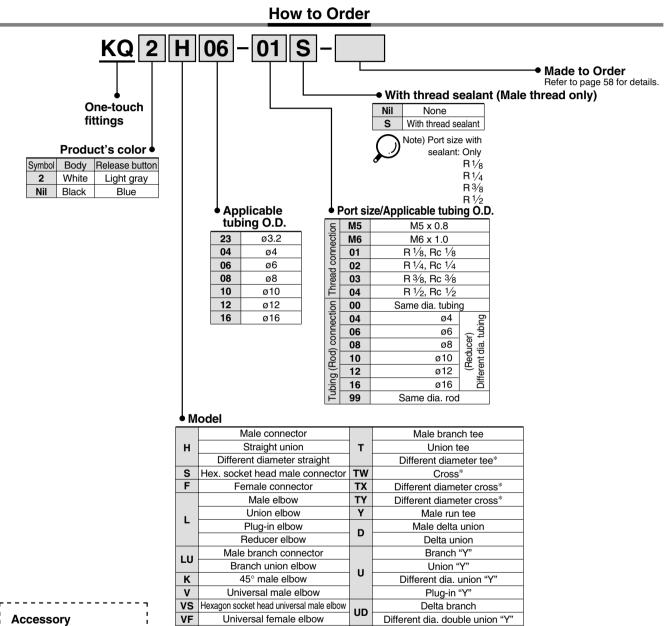
# **One-touch Fittings** Series KQ2

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



Symbol	Name						
	Nipple						
KQ2N	Reducer nipple						
	Adaptor						
KQ2C	Tube cap						
KQ2C	Color cap						
KQ2P	Plug (White)						
KQP	Plug (Blue)						
	<u> </u>						

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

Female elbow

Double universal male elbow

Triple universal male elbow

Branch universal male elbow

Branch universal female elbow

Double branch universal male elbow

Triple branch universal male elbow

Extended plug-in elbow Extended male elbow

LF

۷D

۷T

Z

ZF

ZD

ZT



XD

X

R

F

LE

Double plug-in "Y"

Different diameter plug-in "Y"

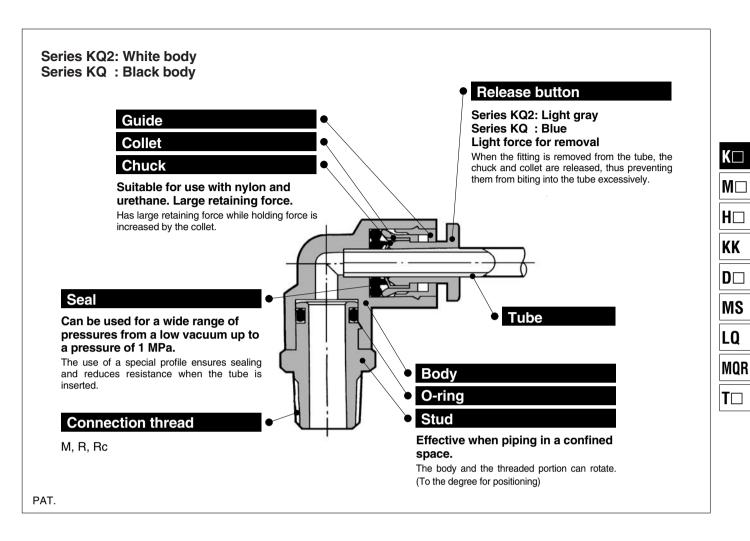
Plug-in reducer

Bulkhead union

**Bulkhead** connector

Bulkhead male elbow

<sup>\*</sup> Available only for white color body.



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





### **Applicable Tubing**

Tubing material	FEP, PFA, Nylon, Soft nylon (1), Polyurethane
Tubing O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16

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

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

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

### **Specifications**

p						
Fluid		Air/Water (2)				
Operating press	ure range (3)	-100 kPa to 1 MPa				
Proof pressure		3 MPa				
Ambient and flu	id temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)				
	Mounting section	JIS B0203 (Taper thread for piping)				
Thread	Mounting Section	JIS B0205 (Metric coarse thread)				
	Nut section	JIS B0205 (Metric fine thread)				
Seal on the threa	ads	With sealant 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, Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



## Series KQ2

### Male Connector: KQ2H

<M5, M6>





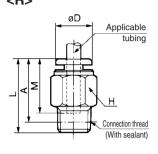


KQ2H											
	tubing O.D.	Connection thread R	Model	Model   H (width across   ØD   L   A*   N		М	Effective area (2) (mm²)		Mass (g)		
	(mm)	M		flats)					Nylon	Urethane	(9)
	M5 x 0.8	KQ2H23-M5	7	7	16.7	13.6	12.7	3	2.5	2.1	
	3.2	1/8	KQ2H23-01S	10	_	21.1	18	15.5	3.4	2.9	9
		1/4	KQ2H23-02S	14	_	19	13.5	15.5			16
		M5 x 0.8	KQ2H04-M5	8	8	17	13.9	12.7	4	4	2.4
	4	M6 x 1.0	KQ2H04-M6	8	0	18	13.9	12.7	4		2.5
	- <b>T</b>	1/8	KQ2H04-01S	10	_	21.1	18	16	5.6	4	9
		1/4	KQ2H04-02S	14	_	19	13.5	10			16
		M5 x 0.8	KQ2H06-M5	10 10	10	17.8	14.7	13.5	4	4	3.3
		M6 x 1.0	KQ2H06-M6	10	10	19	14.9				3.4
	6	1/8	KQ2H06-01S	12	-	21.6	18.5				16
		1/4	KQ2H06-02S	14	_	22.5	17	17	13.1	10.4	14
		3/8	KQ2H06-03S	17	_	20.9	15.5				27
		1/8	KQ2H08-01S	14		27.1	24	18.5	26.1	18.0	21
	8	1/4	KQ2H08-02S	14	_	26	20.5				19
		3/8	KQ2H08-03S	17		20.9	15.5				26
		1/8	KQ2H10-01S			29.1	26		26.1	26.1	19
	10	1/4	KQ2H10-02S	17		33	27.5	21	41.5		30
	10	3/8	KQ2H10-03S		_	27.9	22.5			29.5	30
		1/2	KQ2H10-04S	22		26.1	19				53
		1/4	KQ2H12-02S	19		34	28.5				42
	12	3/8	KQ2H12-03S	19	_	28.9	23.5	22	58.3	46.1	34
		1/2	KQ2H12-04S	22		29.1	22				51
	16	3/8	KQ2H16-03S	24	25.7	38.4	33	25	81	(81)	61
	10	1/2	KQ2H16-04S	24	25.7	34.6	27.5	23	113	(96)	47
		-	·								

<sup>&</sup>lt;M5, M6>

Applicable tubing

Connection thread



## $\mathcal{Q}$

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

## Hexagon Socket Head Male Connector: KQ2S



<R>

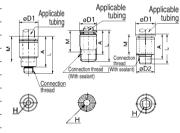


Applicable tubing O.D. (mm)	Connection thread R M	Model	H (width across flats)	ø <b>D1</b>	ø <b>D2</b>	L	<b>A</b> *	M	(m	e area <sup>(2)</sup> m²) Urethane	Mass (g)
()	M5 x 0.8	KQ2S04-M5	2.5			18.7	15.6				2.7
4	M6 x 1.0	KQ2S04-M6		9.8	_	18.2	14.1	12.7	4	4	2.8
-	1/8	KQ2S04-01S	3			23	19	16	4.1	3.6	8
	M5 x 0.8	KQ2S06-M5	2.5	2.5		19.5	16.4				3.3
	M6 x 1.0	KQ2S06-M6	3			19.1	15	13.5	4	4	3.4
6	1/8	KQ2S06-01S		11.8	_	24	20	17	10.0	9.9	9
	1/4	KQ2S06-02S	4	13.8		24	18		10.7	10.0	15
	1/8	KQ2S08-01S	5	14	_	28	24	18.5	17.2	16.2	12
8	1/4	KQ2S08-02S				25.5	19.5		23.3		11
	3/8	KQ2S08-03S	6	17		27.5	21				24
	1/8	KQ2S10-01S	5			30	26	21	17.2	16.2	18
10	1/4	KQ2S10-02S		17		07.5	21.5		39.0	26.6	12
10	3/8	KQ2S10-03S	8		_	27.5	21				19
	1/2	KQ2S10-04S		22		28	20				35
	1/4	KQ2S12-02S	8	19		34	28		46.0		23
12	3/8	KQ2S12-03S	1	19	_	29	22.5	22	60.0	44.5	18
	1/2	KQ2S12-04S	10	22		28	20		00.0		30
16	3/8	KQ2S16-03S	10	25.7	24	39	32.5	25	81	(81)	42
10	1/2	KQ2S16-04S	12	23.7		35	27	25	113	(96)	34

<sup>\*</sup> Reference dimensions after R thread installation.

# KQ2S04 to 12 KQ2S16 Applicable Applicable Applicable Applicable

<M5, M6> <R>



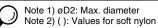


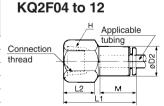
Note 1) øD1: Max. diameter Note 2) ( ): Values for soft nylon.

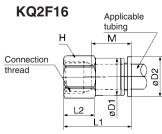
### Female Connector: KQ2F



Applicable tubing O.D.	Connection thread	Model	(width across	ø <b>D1</b>	ø <b>D2</b>	L1	L2	М	Effective area (2) (mm²)		Mass		
(mm)	Rc		flats)						Nylon	Urethane	(g)		
4	1/8	KQ2F04-01	14		10	27	11	16	5.6	4	15		
7	1/4	KQ2F04-02	17		10	31	14	10			23		
	1/8	KQ2F06-01	14	14 17 – 19		27.5	11				15		
6	1/4	KQ2F06-02	17		- 12	12	31	13	17	13.1	10.4	22	
	3/8	KQ2F06-03	19			33.5	15				25	_	
	1/8	KQ2F08-01	14			29	11				17		
8	1/4	KQ2F08-02	17	_	14	32.5	13	18.5	26.1	18.0	24	_	
	3/8	KQ2F08-03	19			33.5	14				24	_	
10	1/4	KQ2F10-02	17		_ 17	34.5	14	21	41.5	29.5	27		
10	3/8	KQ2F10-03	19	_		36.5	15				30		
	1/4	KQ2F12-02	19			35	14		58.3		36		
12	3/8	KQ2F12-03	19	_	19	37	14	22		46.1	31	- 1	
	1/2	KQ2F12-04	24			41	18				52		
16	3/8	KQ2F16-03	24	24	25.7	38	15	O.E.	81	(81)	59		
16	1/2	KQ2F16-04	24	24	25.7	43	19	25	113	(96)	58		









<sup>\*</sup> Reference dimensions after R thread installation.