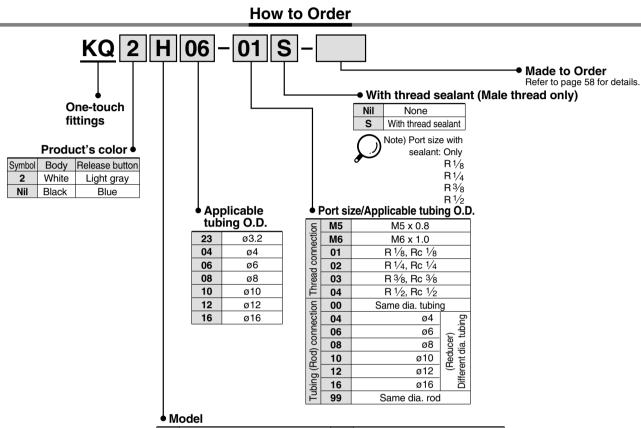
One-touch Fittings Series KQ2

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



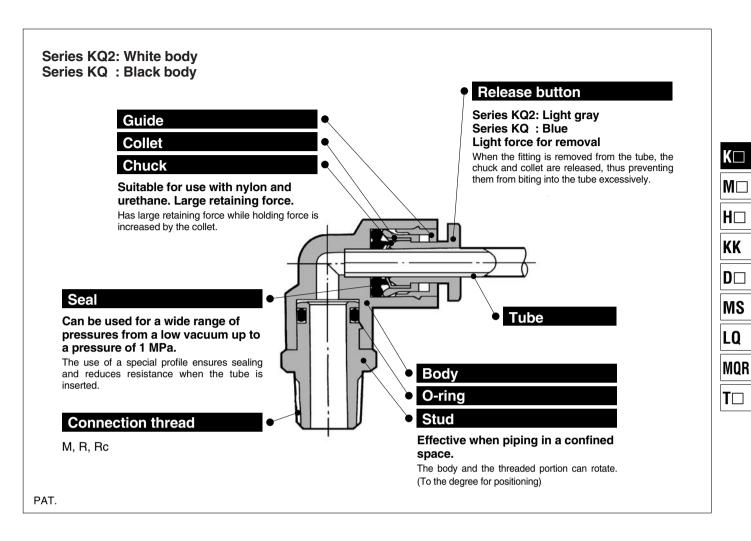
■ IVI	odei					
	Male connector		Male branch tee			
Н	Straight union	Т	Union tee			
	Different diameter straight		Different diameter tee*			
S	Hex. socket head male connector	TW	Cross*			
F	Female connector	TX	Different diameter cross*			
	Male elbow	TY	Different diameter cross*			
L	Union elbow	Υ	Male run tee			
_	Plug-in elbow	D	Male delta union			
	Reducer elbow	ט	Delta union			
LU	Male branch connector		Branch "Y"			
LU	Branch union elbow	U	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			
VF	Universal female elbow	UD	Different dia. double union "Y"			
LF	Female elbow	XD	Double plug-in "Y"			
VD	Double universal male elbow	Х	Different diameter plug-in "Y"			
VT	Triple universal male elbow	R	Plug-in reducer			
Z	Branch universal male elbow	Е	Bulkhead union			
ZF	Branch universal female elbow		Bulkhead connector			
ZD	Double branch universal male elbow	LE	Bulkhead male elbow			
ZT	Triple branch universal male elbow					

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 Extended plug-in elbow
Extended male elbow

^{*} 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	-100 kPa to 1 MPa 3 MPa -5 to 60°C, Water: 0 to 40°C (No freezing) JIS B0203 (Taper thread for piping) JIS B0205 (Metric coarse thread) JIS B0205 (Metric fine thread)				
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>

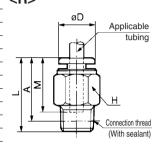






3.2	Mass (a)
(mm) M flats) Nylon Ure 3.2 M5 x 0.8 KQ2H23-M5 7 7 16.7 13.6 12.7 3 2 1/8 KQ2H23-01S 10 - 21.1 18 15.5 3.4 2 1/4 KQ2H23-02S 14 - 19 13.5 15.5 3.4 2 M5 x 0.8 KQ2H04-M5 8 8 17 13.9 12.7 4	2.5 2.1 2.9 9 16 4 2.4 2.5
3.2 1/8 KQ2H23-01S 10 - 21.1 18 15.5 3.4 2 1/4 KQ2H23-02S 14 - 19 13.5 15.5 3.4 2 M5 x 0.8 KQ2H04-M5 8 8 17 13.9 12.7 4	2.9 9 16 4 2.4 2.5 4 9
1/4 KQ2H23-02S 14 - 19 13.5 15.5 3.4 2 M5 x 0.8 KQ2H04-M5 8 8 17 13.9 12.7 4	2.9 16 4 2.4 2.5 4 9
M5 x 0.8 KQ2H04-M5 8 8 17 13.9 12.7 4	16 4 2.4 2.5 4 9
M6 x 1.0 KQ2H04-M6 8 8 18 13.9 12.7 4	4 2.5 4 9
4 M6 x 1.0 KQ2H04-M6 8 18	2.5
7	4 —
1/8 KQ2H04-01S 10 - 21.1 18 16 5.6	⁷ 16
1/4 KQ2H04-02S 14 - 19 13.5	
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 15.5 4	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	0.4 14
3/8 KQ2H06-03S 17 – 20.9 15.5	27
1/8 KQ2H08-01S 14 27.1 24	21
8 1/4 KQ2H08-02S 14 - 26 20.5 18.5 26.1 18	8.0 19
3/8 KQ2H08-03S 17 20.9 15.5	26
1/8 KQ2H10-01S 29.1 26 26.1 26	6.1 19
10 1/4 KQ2H10-02S 17 - 33 27.5 21	30
3/8 KQ2H10-03S 27.9 22.5 41.5 29	9.5 30
1/2 KQ2H10-04S 22 26.1 19	53
1/4 KQ2H12-02S 19 34 28.5	42
12 3/8 KQ2H12-03S - 28.9 23.5 22 58.3 40	6.1 34
1/2 KQ2H12-04S 22 29.1 22	51
16 3/8 KQ2H16-03S 24 25.7 38.4 33 25 81 (8	81) 61
16 1/2 KQ2H16-04S 24 25.7 34.6 27.5 25 113 (S	96) 47

<M5, M6> Applicable tubing Connection thread <R>



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

Hexagon Socket Head Male Connector: KQ2S



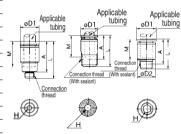




tubing O.D.	Connection thread R	Model	H (width across	ø D1	ø D2	L	A *	М	Effective area (2) (mm²)		Mass (a)	
(mm)	M		flats)						Nylon	Urethane		
	M5 x 0.8	KQ2S04-M5	2.5	8	-	18.7	15.6	12.7	4	4	2.7	
4	M6 x 1.0	KQ2S04-M6	3			18.2	14.1				2.8	
	1/8	KQ2S04-01S	0	9.8		23	19	16	4.1	3.6	8	
	M5 x 0.8	KQ2S06-M5	2.5	10		19.5	16.4	13.5	4	4	3.3	
6	M6 x 1.0	KQ2S06-M6	3			19.1	15		4	4	3.4	
J	1/8	KQ2S06-01S	4	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	1/8 KQ2S08-01S	5	14	_	28	24	18.5	17.2	16.2	12	
8	1/4	KQ2S08-02S	6	14		25.5	19.5		23.3		11	
	3/8	KQ2S08-03S		17		27.5	21				24	
	1/8	KQ2S10-01S	5			30	26	5 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			20				35	
	1/4	KQ2S12-02S	8	19		34	28	22	46.0		23	
12	3/8	KQ2S12-03S			_	29	22.5		60.0	44.5	18	
	1/2	KQ2S12-04S	10	22		28	20		00.0		30	
10	3/8	KQ2S16-03S	10	05.7	24	39	32.5	25	81	(81)	42	
16	1/2	KQ2S16-04S	12	25.7	24	35	27		113	(96)	34	

^{*} Reference dimensions after R thread installation.

<M5, M6> <R> KQ2S04 to 12 KQ2S16



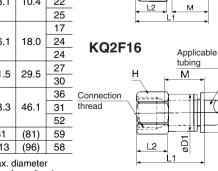


Note 1) ØD1: Max. diameter Note 2) (): Values for soft nylon.

Female Connector: KQ2F

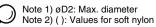


	Applicable tubing O.D.	Connection thread	Model	(width across	ø D1	ø D2	L1	L2	М		e area ⁽²⁾ m²)	Mass (g)	KQ2F
	(mm)	Rc		flats)						Nylon	Urethane	(9)	
	4	1/8	KQ2F04-01	14		10	27	11	16	5.6	4	15	Connection
	4	1/4	KQ2F04-02	17	_	10	31	14	16	5.6	4	23	thread
		1/8	KQ2F06-01	14			27.5	11				15	
	6	1/4	KQ2F06-02	17	-	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	KQ2F
		3/8	KQ2F08-03	19			33.5	14				24	NQ2F
	10	1/4	KQ2F10-02	17		17	34.5	14	21	41.5	29.5	27	
	10	3/8	KQ2F10-03	19	_	17	36.5	15	21	41.5	29.5	30	
		1/4	KQ2F12-02	10			35	4.4				36	Connection
	12	3/8	KQ2F12-03	19	-	19	37	14	22	58.3	46.1	31	thread
		1/2	KQ2F12-04	24			41	18				52	
16	3/8	KQ2F16-03	24	24	0E 7	38	15	0.5	81	(81)	59		
	1/2	KQ2F16-04	24	24	25.7	43	19	25	113	(96)	58		



KQ2F04 to 12

Applicable







^{*} Reference dimensions after R thread installation.