

How to Order

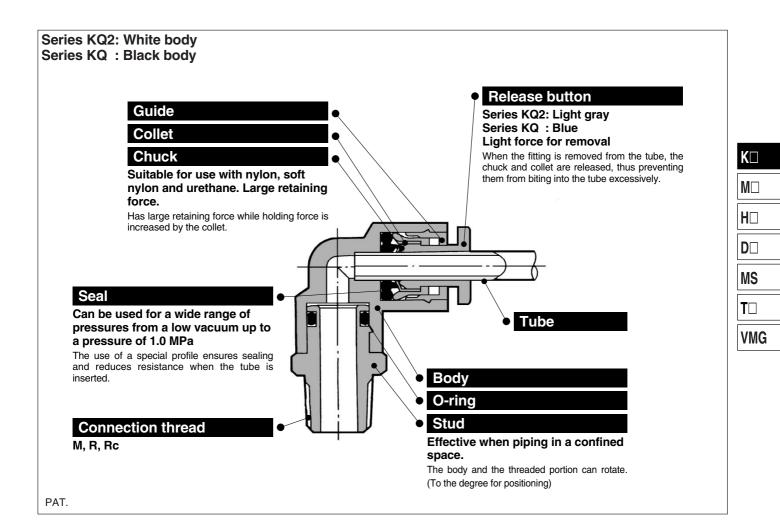


the gasket for M5 and M6 threads. Gasket for M5 thread: M-5G2 Gasket for M6 thread: M-6G

* 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

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

Applications for metric size tubing

 Applicable tubing material-Nylon, Soft nylon, Polyurethane



Product's Color

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

Specifications

Fluid		Air/Water Note)								
Maximum operating	pressure	1.0 MPa								
Operating vacuum p	ressure	–100 kPa								
Proof pressure		3.0 MPa								
Ambient and fluid ter	nperature	-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)	With seal or none								
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.										

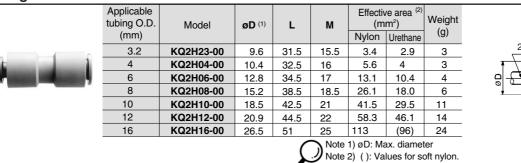
Principal Parts Material

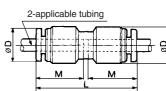
Body	C3604BD, PBT, PP
Stud	C3604BD (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304, C3604BD, POM
Collet, Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



One-touch Fittings Series KQ2

Straight Union: KQ2H





K□

 $\mathsf{M}\square$

ΗD

D

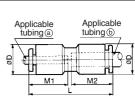
MS

TΠ

VMG

Different Diameter Straight: KQ2H

		-									
	Applic tubing O	cable .D. (mm)	Model	Note) ØD	L	M1	M2		/e area m²)	Weight	
0	a	b						Nylon	Urethane	(g)	
í de la compañía de	3.2	4	KQ2H23-04	10.4	32.5	15.5	16	3.4	2.9	3	
STREET, STREET, STREET, ST.	4	6	KQ2H04-06	12.8	34.5	16	17	5.6	5.6	5	
	6	8	KQ2H06-08	15.2	38.5	17	18.5	13.1	10.4	6	
	8	10	KQ2H08-10	18.5	42	18.5	21	26.1	18.0	11	
	10	12	KQ2H10-12	20.9	44.5	21	22	41.5	29.5	14	
	12	16	KQ2H12-16	26.5	56.5	22	25	58.3	46.1	47	
							\bigcirc	Note) øl	D: Max. di	iameter	



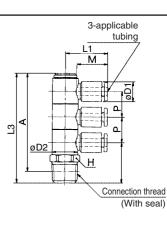
Male Elbow: KQ2L

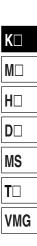
<m5></m5>	Applicable tubing O.D.	Connection thread	Model	H (width across	(1) ø D1	øD2	L1	L2	A *	м	(mi		Weight	<m5, m6=""></m5,>
	(mm)	R		flats)							Nylon	Urethane	(g)	M
		M5 x 0.8	KQ2L23-M5	7	8.5	_	15.3	13.2		12.7	2.6	2.2	2.5	
	3.2	1⁄8	KQ2L23-01S	10	9.6	10	17.5		22.5	15.5	3	2.5	8	₹ tata
		1/4	KQ2L23-02S	14			17.0		24.5	10.0	Ŭ	2.0	18	
		M5 x 0.8	KQ2L04-M5	7	9.3	_	15.6	13.7	15.3	12.7	3.5	3.5	2.7	
	4	M6 x 1.0	KQ2L04-M6	8	0.0		10.0	14.7		12.7	0.0	0.0	3.6	
<m6></m6>		1/8	KQ2L04-01S	10	10.4	10	18	22	23	16	4.2	4.2	10	Applicable tubing
		1/4	KQ2L04-02S	14		-		26	25				19	
and the second se		M5 x 0.8	KQ2L06-M5	7	11.6	_	16.1	14.7	17.4	13.5	3.5	3.5	3.2	Connection thread
Management of	0	M6 x 1.0	KQ2L06-M6	8				15.7					4.1	
	6	1/8	KQ2L06-01S	10	10.0	10	00	23	25.5	17		~ ~	12	_
-		1/4	KQ2L06-02S KQ2L06-03S	14	12.8	10	20	27	27.5	17	11.4	9.0	22	<r></r>
		3/8 1/8	KQ2L08-035	17				29 24.5	29 28				33	L1 Applicable
_	8	1/8	KQ2L08-013	12 14	15.0	12	23	24.5 28.5		18.5	21.6	14.9	13	L M J / tubing
<r></r>	0	^{1/4} 3/8	KQ2L08-025	14	15.2	12	23		31.5	10.5	21.0	14.9	21 35	
i i		9/8 1/8	KQ2L10-035	17				30.5 27	31.5		21.6	14.9	25	
and the second se		1/4	KQ2L10-015	17				30	33		21.0	14.3	26	
	10	3/8	KQ2L10-03S	17	18.5	17	26.5	32	34.5	21	35.2	25.0	36	øD2
Town 1		1/2	KQ2L10-04S	22				36	37		00.2	20.0	63	
		1/4	KQ2L12-02S					31	35.5				28	
	12	3⁄8	KQ2L12-03S	17	20.9	17	28.5	33	37	22	50.2	39.7	38	Connection thread
		1/2	KQ2L12-04S	22				37	39.5				65	(With seal)
		3/8	KQ2L16-03S		00.5			38	44.5		71	(71)	101	
	16	1/2	KQ2L16-04S	22	26.5	20.9	34	41	46	25	100		105	
					\frown	* Refe	erence	dime	nsions	after	R threa			
					9	Note ⁻	1) øD	1: Ma	k. dian s for s	neter				

Triple Universal Male Elbow: KQ2VT



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A *	М	Ρ	Weight (g)
	1⁄8	KQ2VT04-01S	14				18.5	54.5	50.5			29
4	1⁄4	KQ2VT04-02S	14	10.4	13.4	22	21.5	57.5	51.5	16	13.4	34
	3⁄8	KQ2VT04-03S	17				23.5	59.5	53.5			48
	1⁄8	KQ2VT06-01S	14				18.5	54.5	50.5			31
6	1⁄4	KQ2VT06-02S	14	12.8	13.4	24.5	21.5	57.5	51.5	17	13.4	37
	3⁄8	KQ2VT06-03S	17				23.5	59.5	53.5			50
	1⁄8	KQ2VT08-01S					21	64	60			71
8	1⁄4	KQ2VT08-02S	19	15.2	17.6	00 F	24	67	61	10 5	15.9	66
0	³ ⁄8	KQ2VT08-03S	15.2	0.11	28.5	25	68	61.5	18.5	13.9	75	
	1/2	KQ2VT08-04S	21				28.5	71.5	63.5			96
	1⁄4	KQ2VT10-02S					26.5	77.5	71.5			94
10	3⁄8	KQ2VT10-03S	21	18.5	20.6	31.5	27.5	78.5	72	21	19.2	34
	1/2	KQ2VT10-04S					30.5	81.5	73.5			111
	1⁄4	KQ2VT12-02S					28.5	86	80			153
12	3⁄8	KQ2VT12-03S	26	20.9	25.2	34	29.5	87	80.5	22	21.6	142
	1/2	KQ2VT12-04S					32.5	90	82			154
			\bigcirc		erenc øD1:				er R th	nread	instal	lation.





Branch Universal Male Elbow: KQ2Z

tubing O.D.

(mm)

4

6

8

10

12

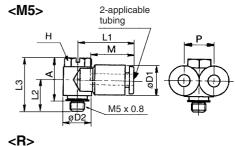
Applicable Connection

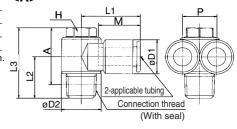


<R>



Connection thread R	Model	H (width across flats)	Note) ØD1	øD2	L1	L2	L3	A *	м	Ρ			Weight (g)
M5 x 0.8	KQ2Z04-M5	8	10.4	9.8	19.5	11	18.5	15	10	10.4	3.4	3.4	8
1⁄8	KQ2Z04-01S	0	10.4	13.4	21	14.5	26.5	22.5	16	10.4	4.7	4.7	16
1⁄8	KQ2Z06-01S	8		13.4	22	14.5	26.5	22.5					17
1/4	KQ2Z06-02S	14	12.8	20.6	25.5	19.5	35.5	29.5	17	12.8	10.8	8.6	39
3⁄8	KQ2Z06-03S	14		20.0	20.0	20.5	36.5	30					47
1⁄8	KQ2Z08-01S	12		17.6	26	15.5	28.5	24.5					27
1/4	KQ2Z08-02S	12	15.2	17.0	-	18.5	31.5	25.5	18.5	15.2	20.5	14.2	33
3⁄8	KQ2Z08-03S	14		20.6	27	20.5	36.5	30					49
1/4	KQ2Z10-02S	14	10 5	20.6	20	19.5	35.5	29.5		40 5			46
3⁄8	KQ2Z10-03S	14	18.5	20.0	29	20.5	36.5	30	21	18.5	31.8	22.6	54
3⁄8	KQ2Z12-03S	17	20.0	25.2	20 E	22	39	32.5		~ ~ ~		05.0	71
1/2	KQ2Z12-04S		20.9	25.2	32.5	25	42	34	22	20.9	44.6	35.3	88
		\mathcal{O}			nce o 1: M				ter R	thre	ad in	stall	ation.





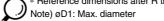
Branch Universal Female Elbow: KQ2ZF

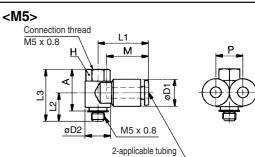
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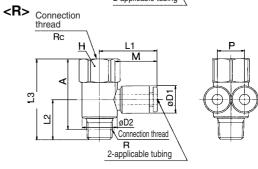
<R>



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Applicable tubing O.D. (mm)	Connection thread R RC	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A *	м	Ρ	Weight (g)	
4	M5 x 0.8	KQ2ZF04-M5	8	10.4	9.8	19.5	11	20	16.5	10	10.4	8	
4	1⁄8	KQ2ZF04-01S	14	10.4	13.4	21	15.5	29.5	25.5	16	10.4	21	
6	1⁄8	KQ2ZF06-01S	14	10.0	13.4	22	15.5	29.5	25.5	17	10.0	21	
0	1/4	KQ2ZF06-02S	19	12.8	20.6	25.5	22	41	35	17	12.8	47	
8	1⁄8	KQ2ZF08-01S	17	15.0	17.6	25.5	17	31	27	10.5	15.0	32	
0	1/4	Model (width across flats) KQ2ZF04-M5 8 KQ2ZF04-01S 14 KQ2ZF06-01S 14 KQ2ZF06-02S 19		15.2	20.6	27	22	41	35	18.5	15.2	49	
10	1/4	KQ2ZF10-02S	19	40.5	20.6	29	22	41	35		40.5	54	
10	3⁄8	KQ2ZF10-03S	22	18.5	25.2	31.5	24.5	45.5	39	21	18.5	74	
10	3/8	KQ2ZF12-03S	22		25.2	32.5	24.5	45.5	39			77	
12	1/2	KQ2ZF12-04S	24	20.9	27	33	25	50	42	22	20.9	101	•
			Refere	ence	dime	ensio	ns af	ter R	thre	ad in	stalla	ation.	







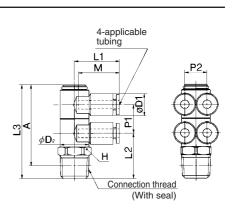


Series KQ2

Double Branch Universal Male Elbow: KQ2ZD



Applicable tubing O.D. (mm)	Connection threads R	Model	H (width across flats)	Note) øD1		L1	L2	L3	A *	м	P1	P2	Weight (g)
()	1/8	KQ2ZD04-01S	,				18.5	41	37				34
4	1/4	KQ2ZD04-02S	14	10.4	13.4	21	21.5	44	38	16	13.4	10.4	40
	3⁄8	KQ2ZD04-03S	17	1			23.5	46	40				53
	1⁄8	KQ2ZD06-01S	14				18.5	41	37				38
6	1⁄4	KQ2ZD06-02S	14	12.8	13.4	22	21.5	44	38	17	13.4	12.8	43
	³ ⁄8	KQ2ZD06-03S	17				23.5	46	40				57
	1⁄8	KQ2ZD08-01S		15.2	17.6	26	21	48	44				76
8	1⁄4	KQ2ZD08-02S	19				24	51	45	10 5	15.9	15.2	72
0	3⁄8	KQ2ZD08-03S				20	25	52	45.5	18.5			81
	1/2	KQ2ZD08-04S	21				28.5	55.5	47.5				102
	1/4	KQ2ZD10-02S				29	26.5	58	52				111
10	3⁄8	KQ2ZD10-03S	21	18.5	20.6		27.5	59	53	21	19.2	18.5	' ' '
	1/2	KQ2ZD10-04S					30.5	62	54				128
	1⁄4	KQ2ZD12-02S					28.5	64.5	58.5				178
12	3⁄8	KQ2ZD12-03S	26	20.9	25.2	32	29.5	65.5	59	22	21.6	20.9	167
	1/2	KQ2ZD12-04S					32.5	68.5	60				179
	* Reference dimensions after R thread installation. Note) øD1: Max. diameter												



Triple Branch Universal Male Elbow: KQ2ZT

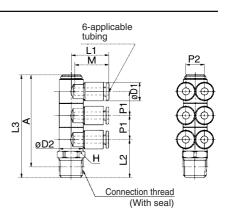
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Applicable Connection



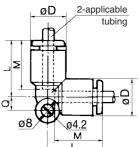
ubing O.D. (mm)	threads R	Model	across flats)	øD1	øD2	L1	L2	L3	A *	м	P1	P2	(g)
(((((((((((((((((((((((((((((((((((((((1/8	KQ2ZT04-01S	natoj				18.5	54.5	50.5				25
	-		14			~							
4	1/4	KQ2ZT04-02S		10.4	13.4	21		57.5		16	13.4	10.4	31
	3⁄8	KQ2ZT04-03S	17				23.5	59.5	53.5				44
	1⁄8	KQ2ZT06-01S	14				18.5	54.5	50.5				27
6	1/4	KQ2ZT06-02S	14	12.8	13.4	22	21.5	57.5	51.5	17	13.4	12.8	33
	3⁄8	KQ2ZT06-03S	17				23.5	59.5	53.5				46
	1⁄8	KQ2ZT08-01S					21	64	60				56
8	1⁄4	KQ2ZT08-02S	19	15.2	17.6	26	24	67	61	18.5	15.9	15.2	54
0	8	KQ2ZT08-03S					25	68	61.5				62
	1/2	KQ2ZT08-04S	21				28.5	71.5	63.5				85
	1/4	KQ2ZT10-02S					26.5	77.5	71.5				83
10	3⁄8	KQ2ZT10-03S	21	18.5	20.6	29	27.5	78.5	72	21	19.2	18.5	85
	1/2	KQ2ZT10-04S					30.5	81.5	73.5				102
	1/4	KQ2ZT12-02S					28.5	86	80				134
12	3⁄8	KQ2ZT12-03S	26	20.9	25.2	32	29.5	87	80.5	22	21.6	20.9	130
	1/2	KQ2ZT12-04S					32.5	90	82				141
		(<u></u> ∗ F	Refer	ence	dim	ensio	ons a	fter F	R thre	ead ii	nstall	ation.
		5	.クNo	te) ø	D1: I	Max.	dian	neter					

H (width Note)



Union Elbow: KQ2L

	Applicable tubing O.D. (mm)	Model	ø D (1)	L	Q	м	Effective area ⁽²⁾ (mm ²) Nylon Urethane		Weight (g)	
	3.2	KQ2L23-00	9.6	17.5	4.3	15.5	3	2.5	3	+
	4	KQ2L04-00	10.4	18	4.5	16	4.2	4.2	6	
	6	KQ2L06-00	12.8	20	5.3	17	11.4	9.0	6	2
	8	KQ2L08-00	15.2	23	6	18.5	21.6	14.9	10	
	10	KQ2L10-00	18.5	26.5	6.8	21	35.2	25.0	17	
	12	KQ2L12-00	20.9	28.5	7.5	22	50.2	39.7	21	o;
	16	KQ2L16-00	26.5	34	10	25	100	(84)	29	
	Note 1) øD: Max. diameter									



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

Weight