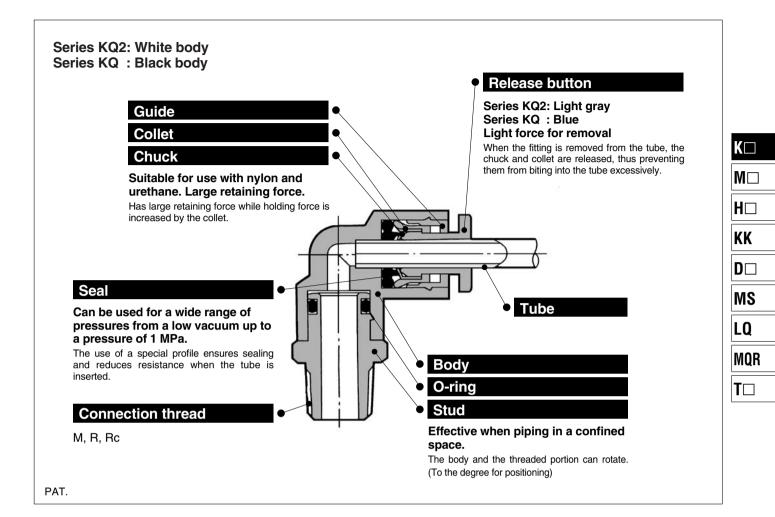


One-touch Fittings Series KQ2 Applicable Tubing: Metric Size Connection Thread: M, R, Rc

		How to Or			
KQ 2	Η	06-01S-			
					Made to Order
					Refer to page 58 for deta
One-touch				 With thread sealant (Ma 	le thread only)
fittings				Nil None	
intings				S With thread sealant	
Product's color				Note) Port size with	
Symbol Body Release button				sealant: Only R 1/8	
2 White Light gray				R1⁄4	
Nil Black Blue				R 3/8	
Nii Didek Dide				R1/2_	
		Applicable P		e/Applicable tubing O.D.	
		tubing O.D.	M5	M5 x 0.8	
		23 Ø3.2	M6	M6 x 1.0	
		04 ø4 E	01	R 1/8, Rc 1/8	
		06 ø6 op	02	R 1/4, Rc 1/4	
		08 Ø8 8	03	R 3/8, Rc 3/8	
		10 ø10 É	04	R 1/2, Rc 1/2	
		12 Ø12 5	00	Same dia. tubing	
		16 ø16 to	04		
			06 08	ø4 ø6 ø8 ø10 ø12 ø16	
			10	End dia transformed by the second sec	
		Bc	12	ø10 ø12	
			16	ø16	
		Z3 Ø3.2 Ø4 Ø4 Ø6 Ø6	99	Same dia. rod	
		lodel			
		Male connector		Male branch tee	-
	н	Straight union	т	Union tee	-
	п	Different diameter straight	- ·	Different diameter tee*	-
	s	Hex. socket head male connector	тw	Cross*	-
	F	Female connector	TX	Different diameter cross*	-
	-	Male elbow	TY	Different diameter cross*	-
		Union elbow	Y	Male run tee	-
	L	Plug-in elbow		Male delta union	1
		Reducer elbow	D	Delta union	1
		Male branch connector		Branch "Y"	1
	LU	Branch union elbow	. .	Union "Y"	1
	К	45° male elbow	U	Different dia. union "Y"	1
	V	Universal male elbow		Plug-in "Y"	
	VS	Hexagon socket head universal male elbow	UD	Delta branch	
Accessory	VF	Universal female elbow		Different dia. double union "Y"	
Symbol Name	LF	Female elbow	XD	Double plug-in "Y"	
Nipple	VD	Double universal male elbow	X	Different diameter plug-in "Y"	
KQ2N Reducer nipple	VT	Triple universal male elbow	R	Plug-in reducer	4
Adaptor	Z	Branch universal male elbow	E	Bulkhead union	4
KQ2C Tube cap	ZF	Branch universal female elbow		Bulkhead connector	4
KQ2C Color cap	ZD	Double branch universal male elbow	LE	Bulkhead male elbow	
KQ2P Plug (White)	ZT	Triple branch universal male elbow	-		
KQP Plug (Blue)	w	Extended plug-in elbow	4		
		Extended male elbow			

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



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





Applicable Tubing

FEP, PFA, Nylon, Soft nylon ⁽¹⁾ , Polyurethane
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

Fluid		Air/Water (2)						
Operating press	sure range (3)	-100 kPa to 1 MPa						
Proof pressure		3 MPa						
Ambient and flu	uid temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)						
Thread	Mounting section	JIS B0203 (Taper thread for piping) JIS B0205 (Metric coarse thread)						
	Nut section	JIS B0205 (Metric fine thread)						
Seal on the thre	eads	With sealant or none						



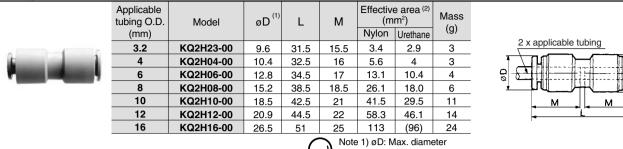
Note 2) The surge pressure must be under the maximum operating pressure.Note 3) Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Principal Parts Material

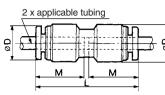
Body	C3604, PBT, PP
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304, C3604, PBT
Collet, Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



Straight Union: KQ2H



Note 2) (): Values for soft nylon.



K□

M

H

KK

D

MS

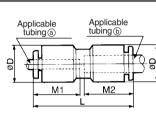
LQ

MQR

TΠ

Different Diameter Straight: KQ2H

	Applicable tubing O.D. (mm)		Model	Note) Ø D	L	M1	M2	Effecti (m	Mass		
	a	b						Nylon	Urethane	(g)	
de l d	3.2	4	KQ2H23-04	10.4	32.5	15.5	16	3.4	2.9	3	
Name and Address of the	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	
							\mathcal{Q}) ^{Note) ø}	D: Max. d	iameter	



Male Elbow: KQ2L

<m5></m5>	Applicable tubing O.D. (mm)	Connection thread R M	Model	H (width across flats)	ø D1	ø D2	L1	L2	A *	м	Effective (mi Nylon	m²)	Mass (g)	<m5, m6=""></m5,>
		M5 x 0.8	KQ2L23-M5	7	8.5	_	15.3	13.2	14.3	12.7	2.6	2.2	2.5	
	3.2	1/8	KQ2L23-01S	10	9.6 10			20.6	22.5				8	
		1/4	KQ2L23-02S	14		10	17.5	25	24.5	15.5	3	2.5	18	
		M5 x 0.8	KQ2L04-M5	7				13.7					2.7	
<m6></m6>	4	M6 x 1.0	KQ2L04-M6	8	9.3	—	15.6	14.7	15.3	12.7	3.5	3.5	3.6	
	4	1⁄8	KQ2L04-01S	10	10.4	4.0	10	21.1	23		4.0	10	Applicable tubing	
		1/4	KQ2L04-02S	14	10.4	10	18	25.5	25	16	4.2	4.2	19	
		M5 x 0.8	KQ2L06-M5	7	11.6	1.6 —	16.1	14.7	17.4	10 5	3.5	3.5	3.2	
		M6 x 1.0	KQ2L06-M6	8	11.0	_	10.1	15.7	17.4	13.5	3.5	3.5	4.1	Connection thread
	6	1⁄8	KQ2L06-01S	10	12.8	10		22.1	25.5		11.4		12	
		1/4	KQ2L06-02S	14			20	26.5	27.5	17		9.0	22	<r></r>
		3⁄8	KQ2L06-03S	17				27.9	29				33	Applicable
		1⁄8	KQ2L08-01S	12		5.2 12	23	23.6	28	18.5	21.6	14.9	13	L1 tubing
<r></r>	8	1/4	KQ2L08-02S	14	15.2			28	30				21	
6		3⁄8	KQ2L08-03S	17				29.4	31.5				35	
and the second se		1⁄8	KQ2L10-01S					26.1	32		21.6	14.9	25	
No. of Concession, Name	10	1/4	KQ2L10-02S	17	18.5	17	26.5	29.5	33	21			26	
		3/8	KQ2L10-03S					30.9	34.5		35.2	25.0	36	
		1/2	KQ2L10-04S	22				35.1	37				63	
		1/4	KQ2L12-02S	17				30.5	35.5				28	
	12	3/8	KQ2L12-03S		20.9	17	28.5		37	22	50.2	39.7	38	(With sealant)
		1/2	KQ2L12-04S	22				36.1	39.5				65	(with sealant)
	16	3/8	KQ2L16-03S	22	26.5	20.9	34	36.9	44.5	25	71	(71)	101	
		1/2	KQ2L16-04S					40.1	46		100	(84)	105	
									nsions		R threa	d instal	lation.	



Note 1) øD1: Max. diameter

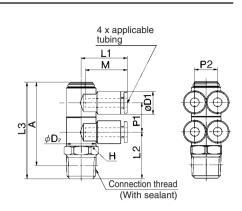
Note 2) (): Values for soft nylon.

Series KQ2

Double Branch Universal Male Elbow: KQ2ZD



Applicable tubing O.D. (mm)	Connection threads R	Model	H (width across flats)	Note) Ø D1	ø D2	L1	L2	L3	A *	м	P1	P2	Mass (g)
	1⁄8	KQ2ZD04-01S	14				17.6	40.1	37		13.4	10.4	25
4	1⁄4	KQ2ZD04-02S	14	10.4	13.4	21	21	43.5	38	16			31
	3⁄8	KQ2ZD04-03S	17				22.4	44.9	40				44
	1⁄8	KQ2ZD06-01S	14	12.8			17.6	40.1	37		13.4	12.8	27
6	1⁄4	KQ2ZD06-02S	14		13.4	22	21	43.5	38	17			33
	3⁄8	KQ2ZD06-03S	17				22.4	44.9	40				46
	1⁄8	KQ2ZD08-01S	19	15.2	17.6	26	20.1	47.1	44	18.5	15.9		56
8	1⁄4	KQ2ZD08-02S					23.5	50.5	45			15.2	54
Ŭ	3⁄8	KQ2ZD08-03S				20	23.5	50.9	45.5				62
	1/2	KQ2ZD08-04S	21				27.6	54.6	47.5				85
	1⁄4	KQ2ZD10-02S				29	26	57.5	52				83
10	3⁄8	KQ2ZD10-03S	21	18.5	20.6		26.4	57.9	53				85
	1/2	KQ2ZD10-04S					29.6	61.1	54				102
	1⁄4	KQ2ZD12-02S					28	64	58.5				134
12	3⁄8	KQ2ZD12-03S	26	20.9	25.2	32	28.5	64.4	59	22	21.6	20.9	130
	1/2	KQ2ZD12-04S					31.6	67.6	60				141
		\mathcal{O}			ence D1: N				ter R	thre	ad in	istalla	ation.

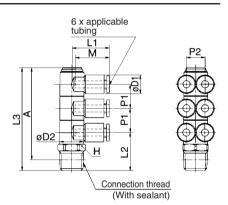


Triple Branch Universal Male Elbow: KQ2ZT

Apj tubi (n



oplicable bing O.D. mm)	Connection threads R	Model	H (width across flats)	Note) ø D1	ø D2	L1	L2	L3	A *	М	P1	P2	Mass (g)
	1⁄8	KQ2ZT04-01S	14		13.4		16.7	53.6	50.5				34
4	1⁄4	KQ2ZT04-02S	14	10.4		21	20.5	57	51.5	16	13.4	10.4	40
	3⁄8	KQ2ZT04-03S	17				22.4	58.4	53.5				53
	1⁄8	KQ2ZT06-01S	14	12.8	13.4	22	17.6	53.6	50.5			12.8	38
6	1⁄4	KQ2ZT06-02S	14				21	57	51.5	17	13.4		43
	3⁄8	KQ2ZT06-03S	17				22.4	58.4	53.5				57
	1⁄8	KQ2ZT08-01S	19	15.2	17.6	26	20.1	63.1	60	18.5	15.9	15.2	76
8	1⁄4	KQ2ZT08-02S					23.5	66.5	61				72
0	3⁄8	KQ2ZT08-03S					23.5	66.9	61.5				81
	1/2	KQ2ZT08-04S	21				27.6	70.6	63.5				102
	1⁄4	KQ2ZT10-02S			20.6	29	26	77	71.5				111
10	3⁄8	KQ2ZT10-03S	21	18.5			26.4	77.4	72	21	19.2	18.5	
	1/2	KQ2ZT10-04S					29.6	80.6	73.5				128
	1⁄4	KQ2ZT12-02S					28	85.5	80				178
12	3⁄8	KQ2ZT12-03S	26	20.9	25.2	32	28.5	85.9	80.5	22	21.6	20.9	167
	1/2	KQ2ZT12-04S					31.6	89.1	82				179
			* R	lefere	ence	dime	ensio	ns af	ter R	thre	ad ir	stalla	ation.



* Reference dimensions after R thread installation Note) øD1: Max. diameter

Union Elbow: KQ2L

Applicable tubing O.D. (mm)	Model	ø D (1)	L	Q	м	Effective area ⁽²⁾ (mm ²) Nylon Urethane		Mass (g)	
. ,		0.0	175	4.0	45.5	,			
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	
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	
16	KQ2L16-00	26.5	34	10	25	100	(84)	29	
							ax. diame ves for so		

