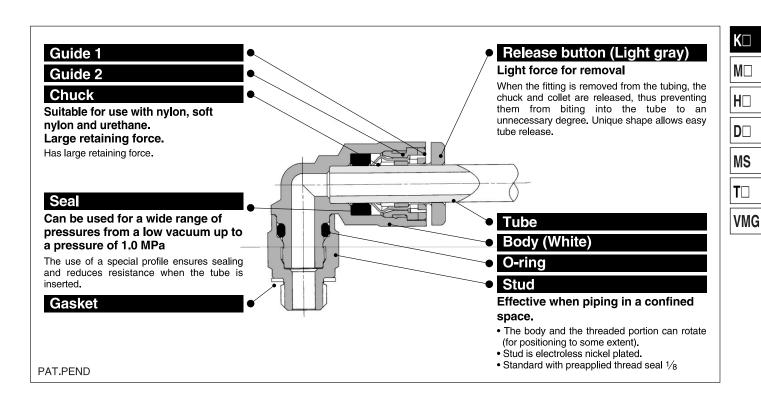
CAD

Miniature One-touch Fittings One-touch Mini Series KJ

Applicable Tubing: ø3.2, ø4, ø6 Connection Thread: M3, M5, R 1/8



Optimum piping in less space with 20% reduction of the outside diameter

Thread seal is standard.

Copper-free specifications (With electroless nickel plated.)

Possible to use in vacuum to –100 kPa



Applicable Tubing

Tubing material	Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø3 . 2, ø4, ø6

Specifications

-p								
Fluid		Air/Water Note)						
Maximum operating p	ressure	1.0 MPa						
Operating vacuum pro	essure	–100 kPa						
Proof pressure		3.0 MPa						
Ambient and fluid tem	perature	-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)						
Thread seal (Standar	d)	With thread seal						
Copper-free (Standar	d)	Brass parts are all electroless nickel plated.						

Note) Applicable for general industrial water. Please consult with SMC if using for other kinds of fluid.

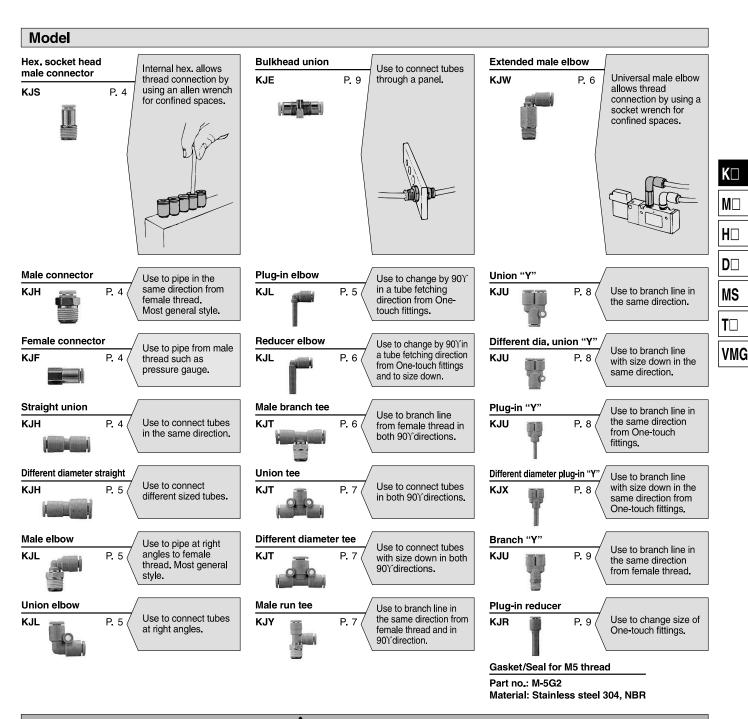
Also, the surge pressure must be under the maximum operating pressure.

Principal Parts Material

Body	Stainless steel 303, C3604BD, PBT
Stud	C3604BD (Thread portion)
Chuck, Guide 2	Stainless steel 304
Release button, Guide 1	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



Miniature One-touch Fittings Series KJ



Be sure to read before handling.

Refer to pages 15-18-3 to 15-18-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 15-1-10 to 15-1-11 for Precautions on every series.

Interchangeability of Series KJ and KQ

⚠ Caution

- Do not use the plug-in KQ Series with the KJ Series, it will not hold.
- **2.** For combinations other than the plug-in KQs, they are interchangeable.

Installation and Removal of One-touch Mini Fittings

Installing of tube

- 1. Cut the tube perpendicularly, using caution not to damage its surface. (Use tube cutter TK-1, 2 or 3. Do not cut the tube with cutting pliers, nippers, scissors, etc.)
- 2. Grasp the tube, then slowly push it until it comes to a stop.
- 3. Then, pull it back gently to make sure that it does not come out.

Removing of tube

(Use one hand for removal.)

- I. Hold the release button with the thumb and forefinger.
- **2.** Grasp the tube with the remaining three fingers and palm.
- 3. Then, pull out the tube with three fingers and palm while pushing in the release button with the thumb and the forefinger.
- 4. To reuse the released tube, cut off the damaged portion of the tube.

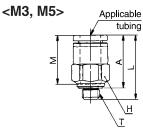


Series **KJ**

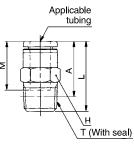
Male Connector: KJH

<m3, m5=""></m3,>
<r 1="" 8=""></r>

Applicable tubing O.D. (mm)	Connection thread T	Model	(width across flats)	L	A	M	Effective area (mm²) Nylon Urethane		Weight (g)
	M3 x 0.5	KJH23-M3 7		16.3	13.7		0.9	0.9	1.6
3.2	M5 x 0.8	KJH23-M5] '	16.7	13.6	12.7	3	2.5	2
	R1/8	KJH23-01S	10	13.8	9.8*		3		4.7
	M3 x 0.5	KJH04-M3	8	16.3	13.7		0.9	0.9	1.9
4	M5 x 0.8	KJH04-M5		17	13.9	12.7	4	4	2.4
	R1/8	KJH04-01S	10	14.8	10.8*		4	4	4.6
6	M5 x 0.8	KJH06-M5	10	17.8	14.7	13.5	4	4	3.3
6	R1/8	KJH06-01S	10	19.4	15.4*	10.5	10	10	5.2



* Reference dimensions after R thread installation. <R 1/8>



Hexagon Socket Head Male Connector: KJS



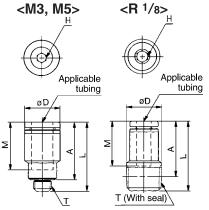


<R 1/8>



Applicable tubing O.D.	Connection thread	Model	(width across	Note) ØD	L	А	М	(mı	111/	Weight (g)
(mm)	ı		flats)					INVION	Urethane	(0)
3,2	M3 x 0.5	KJS23-M3	1.5	_	16.3	13.7	12.7	1.4	1.4	1.3
3.2	M5 x 0.8	KJS23-M5	2	'	19.7	16.6	12.7	2.5	2.5	2.8
	M3 x 0.5	KJS04-M3	1.5		16.3	13.7		1.4	1.4	1.6
4	M5 x 0.8	KJS04-M5	2.5	8	18.7	15.6	12.7	4	4	2.7
	R 1/8	KJS04-01S	3	9.8	19.7	15.7*		4		5.4
6	M5 x 0.8	KJS06-M5	2.5	10	19.5	16.4	13.5	4	4	3.3
	R 1/8	KJS06-01S	4	10	20	16*	13,5	10	10	5.2

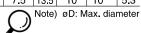
* Reference dimensions after R thread installation. Note) øD: Max. diameter

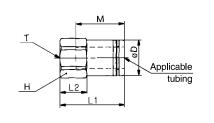


Female Connector: KJF



Applicable tubing O.D. (mm)	Connection thread T	Model	(width across flats)	Note) Ø D	L1	L2	М	Effectiv (mi Nylon	ve area m²) Urethane	(a)
3.2	M3 x 0.5	KJF23-M3	_	7	16.5	6.8	40.7	3	2.5	2.6
3,2	M5 x 0.8	KJF23-M5	′		18.8	7.9	12.7			2.8
4	M3 x 0.5	KJF04-M3			16.1	6.4	10.7		4	3.2
4 ⊢	M5 x 0.8	KJF04-M5	8	8	18.7	7.8	12.7	4	4	3.8
6	M5 x 0.8	KJF06-M5	10	10	18	7.5	13.5	10	10	5.3



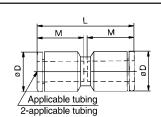


Straight Union: KJH



Applicable tubing O.D.	Model	Note) Ø D	L	М	Effectiv (m	Weight	
(mm)					Nylon	Urethane	(g)
3.2	KJH23-00	8.4	26.3	12.7	3	2.5	1.4
4	KJH04-00	9.3	26.3	12.7	4	4	1.7
6	KJH06-00	11.6	28	13.5	10	10	2.5

Note) øD: Max. diameter

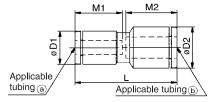


Miniature One-touch Fittings Series KJ

Different Diameter Straight: KJH



Applicable tubing O.D. (mm)		Model	Note Note		M1	M2	Effective area (mm²)		Weight (g)	
a	(b)							Nylon	Urethane	
3.2	4	KJH23-04	8.4	9.3	26.3	12.7	12.7	3	2.5	1.6
	6	KJH23-06	0.4	11.6	27.2	12.7	13.5			2
4	6	KJH04-06	9.3	11.6	27.2	12.7	13.5	4	4	2.2



 $\mathsf{K}\square$

 $\mathsf{M}\square$

 $H\square$

 $\mathsf{D}\Box$

MS

 $\mathsf{T}\Box$

VMG

Male Elbow: KJL

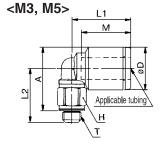






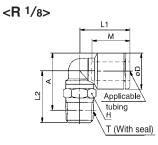


Applicable tubing O.D. (mm)	Connection threads T	Model	(width across flats)	Note) Ø D	L1	L2	Α	M	(mı	ve area m²) Urethane	Weight (g)
	M3 x 0.5	KJL23-M3	7			12.5	14.1		0.8	8.0	2.1
3.2	M5 x 0.8	KJL23-M5	7 10	8.4	8.4 15.3	13.2	14.3	12.7	2.6	2.2	2.5
	R 1/8	KJL23-01S				15.2	15.4*		2.0		6.7
	M3 x 0.5	KJL04-M3	7			13	15.1		8.0	8.0	2.2
4	M5 x 0.8	KJL04-M5	'	9.3	15.6	13.7	15.3	12.7	3.5	3.5	2.7
7	R 1/8	KJL04-01S	10			15.7	16.4*		3.5	5.	6.8
6	M5 x 0.8	KJL06-M5	7	11.6	16.1	14.7	17.4	13.5	3.5	3.5	3.2
6	R 1/8	KJL06-01S	10	11.0	17.8	16.7	18.5*	13.5	9	9	6.4
	Defended for the Control of the Cont										



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

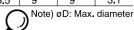
Note) øD1, øD2: Max. diameter

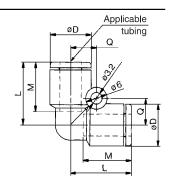


Union Elbow: KJL



oplicable oing O.D.	Model	Note) ØD L		Q	М	Effectiv (m	Weight	
(mm)						Nylon	Urethane	(g)
3.2	KJL23-00	8.4	15	5.8	12.7	2.6	2.2	1.6
4	KJL04-00	9.3	15.8	6.3	12.7	3.5	3.5	2
6	KJL06-00	11.6	17.1	7.3	13.5	9	9	3.1





Plug-in Elbow: KJL



Applicable tubing O.D.	Applicable fitting size	Model	Note) Ø D1	øD2	L1	L2	А	М	(m	''' <i>'</i>	weight
(mm)	ød								Nylon	Urethane	(9)
3.2	3.2	KJL23-99	8.4	6	14.5	23.8	15.3	12.7	2.6	2 <u>.</u> 2	1
4	4	KJL04-99	9.3	6	15.6	24.7	16.7	12.7	3.5	3.5	1.2
6	6	KJL06-99	11.6	7	16.3	26.8	19.1	13.5	9	9	2
Note) ØD1: Max. diameter										neter	

М Applicable øD2 tubing Applicable fitting ød

Series **KJ**

Reducer Elbow: KJL



Applicable tubing O.D.	Applicable fitting size	Model	Note) Ø D1	øD2	L1	L2	A	М	Effectiv (m	/e area m²)	vveignt
(mm)	ød								Nylon	Urethane	(g)
3.2	4	KJL23-04		_	115	24.3	15.8	10.7	2.6	2.2	1.1
3,2	6	KJL23-06	8.4	6	14.5	25.3	16	12.7	2.0	2.2	1.2
4	6	KJL04-06	9.3	6	15.6	25.7	16.9	12.7	3.5	3.5	1.4

øD2
Applicable tubing
Applicable fitting

Note) ØD1: Max. diameter

Extended Male Elbow: KJW



Applicable tubing O.D. (mm)	Connection thread T	Model	(width across flats)	Note) ØD	L1	L2	A	М	(ve area m²) Urethane	Weight (g)
	M3 x 0.5	KJW23-M3	7			22.5	24.1		0.8	0.8	5
3.2	M5 x 0.8	KJW23-M5	'	8.4	15.3	25.2	26.3	12.7	2.6	2.2	6.2
	R 1/8	KJW23-01S	10			25.2	25.4*		2.0	2.2	13.4
	M3 x 0.5	KJW04-M3	7			23	25.1		8.0	0.8	5.1
4	M5 x 0.8	KJW04-M5	_ ′	9.3	15.6	25.7	27.3	12.7	3.5	3.5	6.4
	R 1/8	KJW04-01S	10			25.7	26.4*		3.5	3.5	13.6
6	M5 x 0.8	KJW06-M5	7	11.6	16.1	26.7	29.4	13.5	3.5	3.5	6.9
0	R 1/8	KJW06-01S	10	11.0	17.8	28.7	30.5*	13.5	9	9	13.2

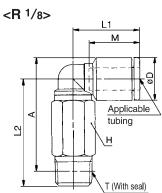
Applicable tubing

<M3, M5>





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

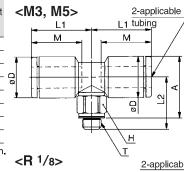


Male Branch Tee: KJT

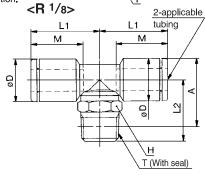


<M3, M5>

_	C. 110 I												
	Applicable tubing O.D.	Connection thread	Model	H (width across	Note) ØD	L1	L2	A	М	Effectiv (m)		Weight (g)	
	(mm)	T		flats)	-					Nylon	Urethane	(9)	
		M3 x 0.5	KJT23-M3	7			12.5	14.1		0.9	0.9	2.8	
	3.2	M5 x 0.8	KJT23-M5	_ ′	8.4	15.3	13.2	14.3	12.7	3.2	2.7	3.2	
		R 1/8	KJT23-01S	10			15.2	15.4*		0.2	2.7	7.4	_
		M3 x 0.5	KJT04-M3	7			13	15.1		0.9	0.9	3.1	Š
n	4	M5 x 0.8	KJT04-M5	_ ′	9.3	15.6	13.7	15.3	12.7	4.5	4.5	3.5	
l		R 1/8	KJT04-01S	10			15.7	16.4*		4.5	4.5	7.7	
	6	M5 x 0.8	KJT06-M5	7	11.6	16.1	14.7	17.4	13.5	4.5	4.5	4.4	
	Ö	R 1/8	KJT06-01S	10	11.0	17.8	16.7	18.5*	13.5	11	11	7.6	



,		* Reference dimensions after R thread installation
1	ال	* Reference dimensions after R thread installation Note) øD: Max. diameter
9		

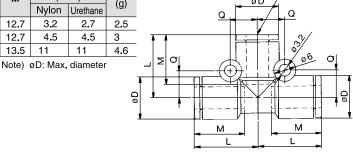


Miniature One-touch Fittings Series KJ

Union Tee: KJT



Applicable tubing O.D.	Model	Note) ØD	L	Q	М		/e area m²)	Weight (g)	
(mm)						Nylon	Urethane	(9)	
3.2	KJT23-00	8.4	15	5.8	12.7	3.2	2.7	2.5	
4	KJT04-00	9.3	15.8	6.3	12.7	4.5	4.5	3	
6	KJT06-00	11.6	17.1	7.3	13.5	11	11	4.6	



3-applicable tubing

$\mathsf{K}\square$

 $\mathsf{M}\square$ $H\square$

 $\mathsf{D}\Box$

MS

Applicable tubing_(b)

 $\mathsf{T}\Box$

VMG

Different Diameter Tee: KJT



tubing	icable g O.D. ım)	Model	Note) Ø D1	Note) ØD2	L1	L2	Q1	Q2	M1	M2	Effectiv (m	/e area m²)	Weight
a	b										Nylon	Urethane	(g)
3.2	4	KJT23-04	9.3	8.4	15.3	15.8	5.8	6.3	12.7	12.7	4.5	4.5	2.8
4	6	KJT04-06	11.6	9.3	16.6	16.8	6.3	7.3	13.5	12.7	8	8	3.7

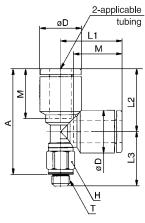
Q2 Note) øD1, øD2: Max. diameter М2 М2 Applicable Applicable^{\)} tubing @ tubing@

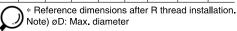
Male Run Tee: KJY



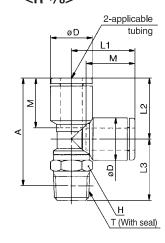
Applicable tubing O.D.	Connection thread	Model	H (width across	Note) ØD	L1	L2	L3	А	М		/e area m²)	Weight
(mm)	Т		flats)	80						Nylon	Urethane	(g)
	M3 x 0.5	KJY23-M3	7				12.5	24.7		0.9	0.9	2.8
3.2	M5 x 0.8	KJY23-M5	′	8.4	15.4	14.8	13.2	24.9	12.7		2.7	3.2
	R 1/8	KJY23-01S	10				15.2	26*		3.2	2.7	7.4
	M3 x 0.5	KJY04-M3	7				13	25.2		0.9	0.9	3.1
4	M5 x 0.8	KJY04-M5	_ ′	9.3	15.6	14.8	13.7	25.4	12.7	4.5	4.5	3.5
	R 1/8	KJY04-01S	10				15.7	26.5*		4.5	4.5	7.7
•	M5 x 0.8	KJY06-M5	7	11.6	17.1	17.1	14.7	28.7	13.5	4.5	4.5	4.5
6	R 1/8	KJY06-01S	10	11.6	17.5	16.6	16.7	29.3*	13.5	11	11	7.5
				_	_							







<R 1/8>





Series **KJ**

Union "Y<u>": KJU</u>



Applicable tubing O.D.	Model	Note) Ø D	L1	L2	Р	Q	M1	M2		ve area m²)	Weight
(mm)									Nylon	Urethane	(g)
3.2	KJU23-00	8.4	28.5	19	8.4	5.8	12.7	12.9	3.2	2.7	2.6
4	KJU04-00	9.3	27.9	18.3	9.3	6.3	12,7	12.9	4.5	4.5	3
6	KJU06-00	11.6	31.2	21.6	11.6	7.3	13.5	13.7	11	11	4.7

| (mm²) | (g) | (g) | 3.2 | 2.7 | 2.6 | 4.5 | 4.5 | 3 | 11 | 11 | 4.7 | Note) ØD: Max. diameter | Section 2.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.

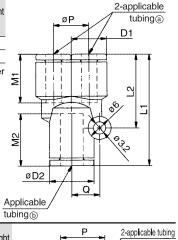
3-applicable

Different Diameter Union "Y": KJU



tubing (m	cable g O.D. m)	Model	Note) Ø D1	Note) ØD2	L1	L2	Р	Q	M1	M2	(mı	'' <i>)</i>	Weight (a)	
a	b										Nylon	Urethane	(3)	
3.2	4	KJU23-04	8.4	9.3	27.5	18.3	8.4	6.3	12.7	12.9	4.5	4.5	2.7	
4	6	KJU04-06	9.3	11.6	29.2	19.3	9.3	7.3	12.7	13.7	8	8	3.7	

.3 | 7.3 | 12.7 | 13.7 | 8 | 8 | 3.7 | Note) ØD1, ØD2: Max. diameter

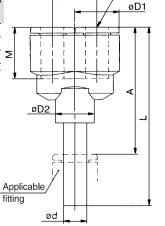


Plug-in "Y": KJU



Applicable tubing O.D. (mm)	Applicable fitting size ød	Model	Note) Ø D1	øD2	L	Р	Α	171	(1111	ve area m²) Urethane	(a)	
3.2	3.2	KJU23-99	8.4	10	43.5	8.4	34.1	12.7	3.2	2.7	2.7	
4	4	KJU04-99	9.3	10	44.7	9.3	35.3	12.7	4.5	4.5	3.2	
6	6	KJU06-99	11.6	10	47.8	11.6	37.6	13.5	11	11	4.5	2



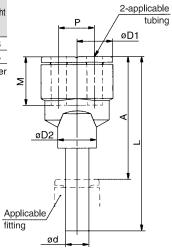


Different Diameter Plug-in "Y": KJX



Applicable tubing O.D. (mm)	Applicable fitting size ød		Note) Ø D1	øD2	L	Р	A	IVI	Effectiv (mi Nylon	!!! <i>)</i>	Weight (g)
3.2	4	KJX23-04	8.4	10	44	8.4	34.6	12.7	4.5	4.5	2.8
4	6	KJX04-06	9.3	10	45.7	9.3	35.5	12.7	8	8	3.5

Note) ØD1: Max. diameter



Miniature One-touch Fittings Series KJ

Branch: KJU

<m5></m5>		
4		
		-
-	~	
	Francisco (Tests.

Applicable tubing O.D. (mm)	Connection thread	Model	(width across flats)	Note) Ø D1	øD2	L	Р	A	М	(mı	ve area m²) Urethane	Weight (g)	
(111111)	•		naisj							TAYIOTT	Oremane		
3.2	M5 x 0.8	KJU23-M5	40		40	30.6	1 2 1 1	27.5	12.7	2.2	2.2	5.9	
	R1/8	KJU23-01S	10	8.4	10	34.1		30.1*	12.7	3.2	2.7	8.3	
4	M5 x 0.8	KJU04-M5	10	9.3	10	31.3	9.3	28.2	12.7	2.2	2.2	6.4	
	R1/8	KJU04-01S				34.8		30.8*	12.7	4.5	4.5	8.8	
6	M5 x 0.8	KJU06-M5	40	11.6	10	33.4	111 h	30.3	13.5	2.2	2.2	7.4	. 3
	R1/8	KJU06-01S	10	11.0	10	36.9		32.9*	13.3	11	11	9.9	
					_				٠.	D			

2-applicable tubing oD1

 $\mathsf{K}\square$

 $\mathsf{M}\square$

 $H\square$

 $\mathsf{D}\Box$

MS

 $\mathsf{T}\Box$

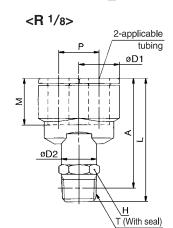
VMG

<M5>

<R 1/8>



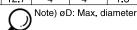
* Reference dimensions after R thread installation. Note) øD: Max. diameter

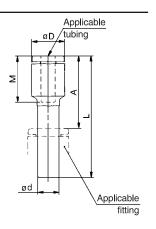


Plug-in Reducer: KJR



	Applicable tubing O.D.	Applicable fitting size	Model	Note) Ø D	L	A	М	Effectiv (m	ve area m²)	Weight (g)
	(mm)	ød						Nylon	Urethane	(9)
	3.2	4	KJR23-04	8.4	32	19.3	12.7	3	2.5	0.9
3.2	6	KJR23-06	0.4	33	19.5	12.7	3	2.5	1.1	
Į	4	6	KJR04-06	9.3	33.5	20	12.7	4	4	1.3

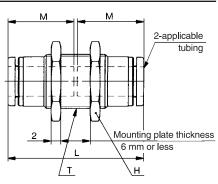




Bulkhead Union: KJE



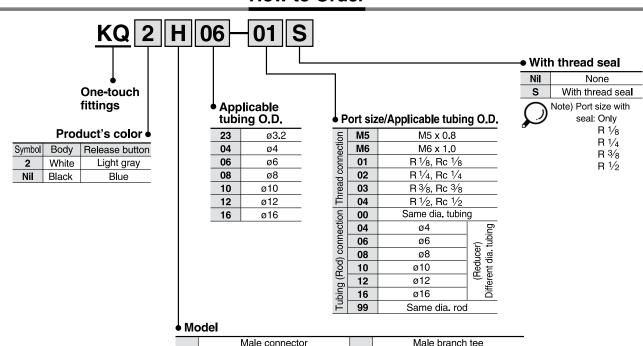
Applicable tubing O.D.	Model	T (width across		L	Mounting hole	м	Effective area (mm²)		Weight
(mm)			flats)		I IIOIG		Nylon	Urethane	(g)
3.2	KJE23-00	M8 x 0.75	10	26	9	12.7	3	2.5	4.6
4	KJE04-00	M9 x 0.75	11	26	10	12.7	4	4	5.6
6	K.IE06-00	M11 v 0.75	14	27.7	12	13.5	10	10	8.5





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

How to Order



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

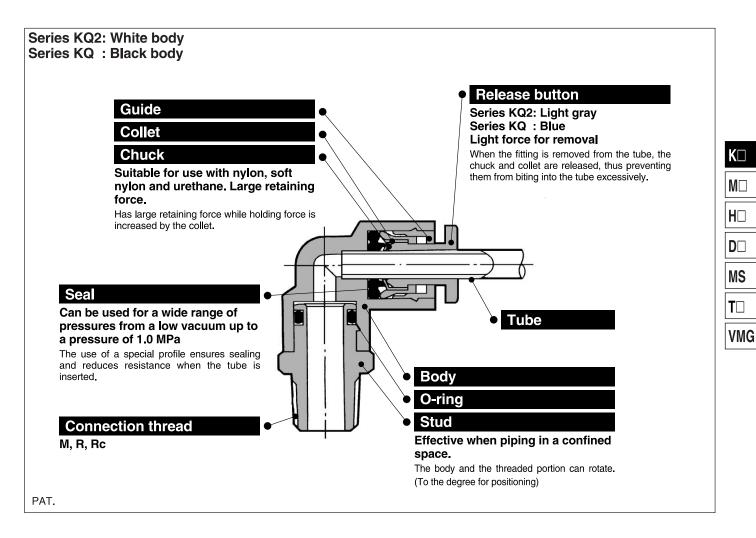
Use the below part number to order the gasket for M5 and M6 threads. Gasket for M5 thread: M-5G2 Gasket for M6 thread: M-6G

KQP

Plug (Blue)

♦ Me	odel		
	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	T Union tee Different diameter tee * Not Or TW Cross* TX Different diameter cross* TY Different diameter cross* Y Male run tee Male delta union Delta union Branch Union "Y" Different dia, union "Y" Plug-in "Y" Delta branch Different dia, double union " XD Double plug-in "Y" X Different diameter plug-in " R Plug-in reducer Bulkhead union Bulkhead connector	
L	Plug-in elbow		Male delta union
	Reducer elbow	ט	Delta union
	Male branch connector		Branch
LU	Branch union elbow	l	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	ш	Delta branch
VF	Universal female elbow	עט	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		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		
	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

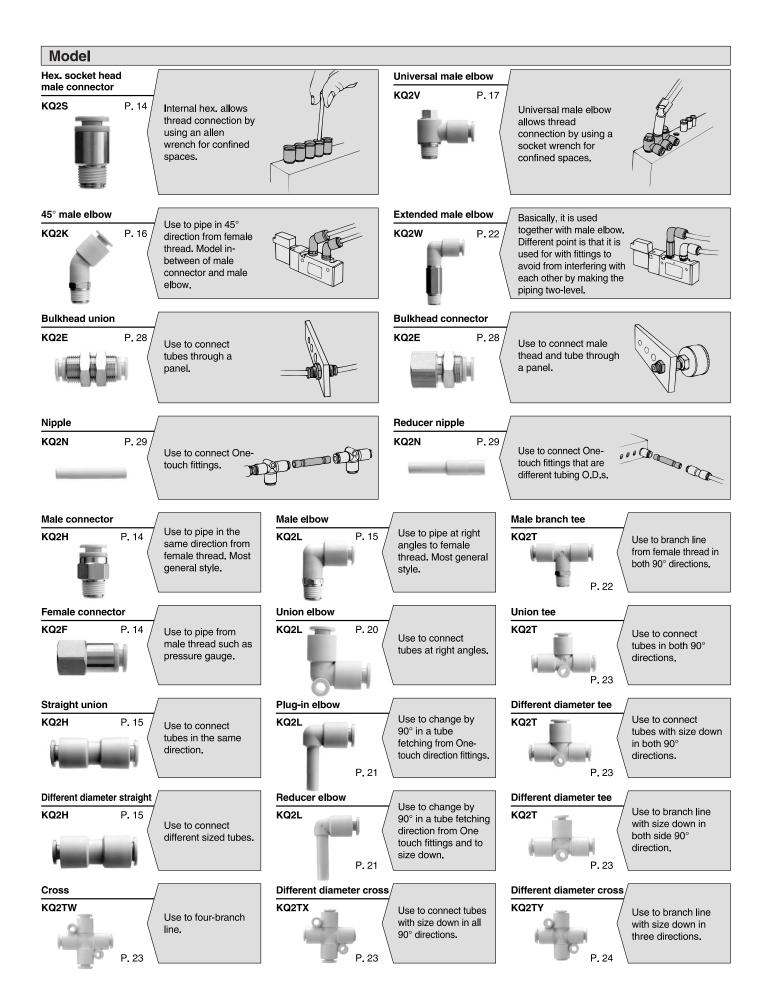
Specifications

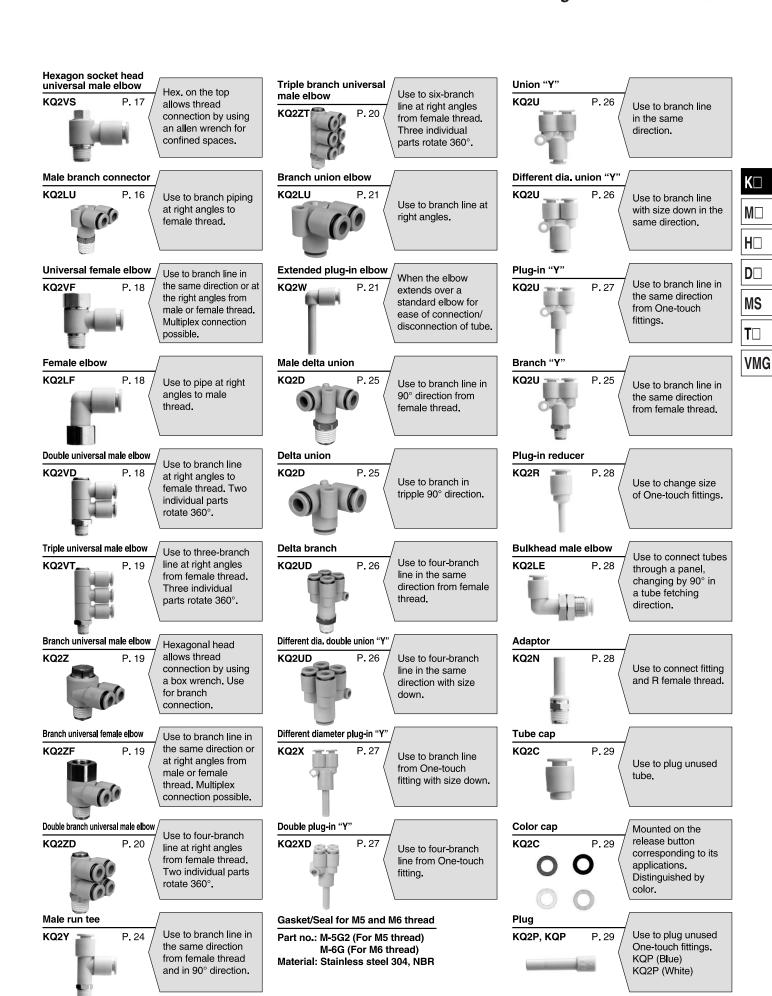
Fluid		Air/Water Note)				
Maximum operatin	g pressure	1.0 MPa				
Operating vacuum	pressure	–100 kPa				
Proof pressure		3.0 MPa				
Ambient and fluid t	temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)				
Thread	Mounting section	JIS B 0203 (Taper thread for piping) JIS B 0209 Class 2 (Metric coarse thread)				
	Nut section	JIS B 0211 Class 2 (Metric fine thread)				
Seal (Thread portion	on)	With seal or none				
Alota) Applicable for	apparel industrial water. Dis	and apparelt with CMC if voing for other kinds of fluid				

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





Male Connector: KQ2H

<M5, M6>

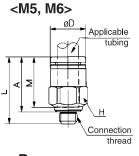


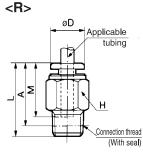






Applicable tubing O.D.	Connection thread	Model	(width across	ø D	L	A *	М	Effectiv (mi	e area ⁽²⁾ m²)	Weight
(mm)	R		flats)					Nylon	Urethane	(g)
	M5 x 0.8	KQ2H23-M5	7	7	16.7	13.6	12.7	3	2.5	2.1
3.2	1/8	KQ2H23-01S	10	_	22	18	15.5	0.4	0.0	9
	1/4	KQ2H23-02S	14	_	19.5	13.5	15.5	3.4	2.9	16
	M5 x 0.8	KQ2H04-M5	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	4	2.5
_	1/8	KQ2H04-01S	10	_	22	18	16	5.6	4	9
	1/4	KQ2H04-02S	14	_	19.5	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	10	19	14.9	10.0	4	4	3.4
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		33.5	27.5	21			30
10	3/8	KQ2H10-03S			29	22.5	- 1	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	13	_	30	23.5	22	58.3	46.1	34
	1/2	KQ2H12-04S	22		30	22				51
16	3/8	KQ2H16-03S	24	25.7	39.5	33	25	81	(81)	61
16	1/2	KQ2H16-04S	24	25.7	35.5	27.5	23	113	(96)	47
			➤ Ref	erence	dimens	ions aft	er R thr	ead insta	allation.	





KQ2S16

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

Hexagon Socket Head Male Connector: KQ2S

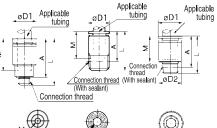
<M5, M6>





Applicable tubing O.D. (mm)	Connection thread P	Model	(width across flats)	ø D1	øD2	L	A *	М	Effective (mr Nylon	e area ⁽²⁾ n²) Urethane	weight	
	M5 x 0.8	KQ2S04-M5	2.5			18.7	15.6	40.7	4	_	2.7	
4	M6 x 1.0	KQ2S04-M6	3	8	_	18.2	14.1	12.7	4	4	2.8	
	1/8	KQ2S04-01S	3	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	10		19.1	15	10.5	7	7	3.4	Σ
	1/8	KQ2S06-01S	4	11.8		24	20	17	10.0	9.9	9	•
	1/4	KQ2S06-02S	4	13.8		24	18	17	10.7	10.0	15	
	1/8	KQ2S08-01S	5	14 _	28	24		17.2		12		
8	1/4	KQ2S08-02S	6		_	25.5	19.5	18.5	23.3	16.2	11	
	3/8	KQ2S08-03S		17		27.5	21		23.3		24	
	1/8	KQ2S10-01S	5			30	26		17.2	16.2	18	
10	1/4	KQ2S10-02S		17		27.5	21.5	21			12	
	3/8	KQ2S10-03S	8		_	27.0	21	- '	39.0	26.6	19	
	1/2	KQ2S10-04S		22		28	20				35	
	1/4	KQ2S12-02S	8	19		33.5	27.5		46.0		23	
12	3/8	KQ2S12-03S	10	13	_	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	
16	1/2	KQ2S16-04S	12	23.7	4	35	27	23	113	(96)	34	

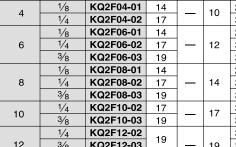
<M5, M6> <R>



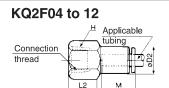
KQ2S04 to 12

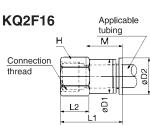
Reference dimensions after R thread installation. Note 1) ØD: Max. diameter Note 2) (): Values for soft nylon.

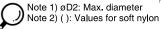
Female Connector: KQ2F



tubing O.D.	thread	Model	(width across	øD1	øD2	L1	L2	М	(mı		Weight (g)
(mm)	Rc		flats)						Nylon	Urethane	(3)
4	1/8	KQ2F04-01	14		10	27	11	16	5.6	4	15
-	1/4	KQ2F04-02	17		10	31	14	10	0.0	-	23
6	1/8	KQ2F06-01	14		12	27.5	11		13.1	10.4	15
	1/4	KQ2F06-02	17	_		31	13	17			22
	3/8	KQ2F06-03	19			33.5	15				25
8	1/8	KQ2F08-01	14			29	11	18.5		18.0	17
	1/4	KQ2F08-02	17	_	14	32.5	13		26.1		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		17	36.5	15	21	41.5		30
	1/4	KQ2F12-02	19			35	4.4				36
12	3/8	KQ2F12-03	19	_	19	37	14	22	58.3	46.1	31
	1/2	KQ2F12-04	24			41	18				52
16	3/8	KQ2F16-03	24	24	25.7	38	15	- 25	81	(81)	59
	1/2	KQ2F16-04	24			43	19	25	113	(96)	58







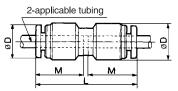


Applicable tubing@

Straight Union: KQ2H



Applicable tubing O.D.	Model	ø D (1)	L	M	(m	ve area ⁽²⁾ m²)	Weight (g)
(mm)					Nylon	Urethane	(9)
3.2	KQ2H23-00	9.6	31.5	15.5	3.4	2.9	3
4	KQ2H04-00	10.4	32.5	16	5.6	4	3
6	KQ2H06-00	12.8	34.5	17	13.1	10.4	4
8	KQ2H08-00	15.2	38.5	18.5	26.1	18.0	6
10	KQ2H10-00	18.5	42.5	21	41.5	29.5	11
12	KQ2H12-00	20.9	44.5	22	58.3	46.1	14
16	KQ2H16-00	26.5	51	25	113	(96)	24



Applicable tubing (b)

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

$\mathsf{K}\square$

 $\mathsf{M}\square$ $H\square$

 $\mathsf{D}\Box$

MS

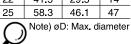
 $\mathsf{T}\Box$

VMG

Different Diameter Straight: KQ2H



Applic tubing O		Model	Note) Ø D	L	M1	M2		ve area m²)	Weight
a	(b)						Nylon	Urethane	(g)
3.2	4	KQ2H23-04	10.4	32.5	15.5	16	3.4	2.9	3
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



Male Elbow: KQ2L





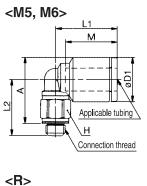
<M6>



<R>



٤!	_												
	tubing O.D.	thread	Model	H (width across	ø D1	øD2	L1	L2	A *	М	(mı		Weight (g)
	(mm)	R		flats)							Nylon	Urethane	(9)
		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	17.5	21.5	22.5	15.5	3	2.5	88
		1/4	KQ2L23-02S	14	3.0	10	17.5	25.5	24.5	13.3	3	2.5	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	9.3		15.0	14.7	15.5	12.7	3.3	3.3	3.6
	7	1/8	KQ2L04-01S	10	10.4	10	18	22	23	16	4.2	4.2	10
		1/4	KQ2L04-02S	14	10.4	10	10	26	25	10	4.2	4.2	19
		M5 x 0.8	KQ2L06-M5	7	11.6		16.1	14.7	17.4	13.5	3.5	3.5	3.2
		M6 x 1.0	KQ2L06-M6	8	11.0		10.1	15.7	17.4	10.5	5.5	0.0	4.1
	6	1/8	KQ2L06-01S	10				23	25.5				12
		1/4	KQ2L06-02S	14	12.8	10	20	27	27.5	17	11.4	9.0	22
		3/8	KQ2L06-03S	17				29	29				33
		1/8	KQ2L08-01S	12				24.5	28				13
	8	1/4	KQ2L08-02S	14	15.2	12	23	28.5	30	18.5	21.6	14.9	21
		3/8	KQ2L08-03S	17				30.5	31.5				35
		1/8	KQ2L10-01S					27	32		21.6	14.9	25
	10	1/4	KQ2L10-02S	17	18.5	17	26.5	30	33	21			26
	10	3/8	KQ2L10-03S		10.5	'	20.5	32	34.5	۲۱	35.2	25.0	36
		1/2	KQ2L10-04S	22				36	37				63
		1/4	KQ2L12-02S	47				31	35.5				28
	12	3/8	KQ2L12-03S	17	20.9	17	28.5	33	37	22	50.2	39.7	38
		/ 2	KQ2L12-04S	22				37	39.5				65
	16	3/8	KQ2L16-03S	22	26.5	20.9	34	38	44.5	25	71	(71)	101
	16	1/2	KQ2L16-04S	~~	20.5	20.9	54	41	46	20	100	(84)	105



Applicable tubing Connection thread (With seal)

Reference dimensions after R thread installation. Note 1) ØD1: Max. diameter Note 2) (): Values for soft nylon.

Male Branch Connector: KQ2LU

<M5, M6>



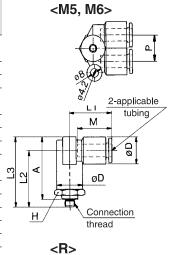


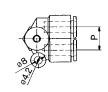


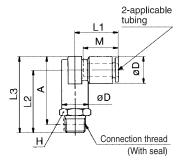


Applicable tubing O.D.		Model	H (width across	Note) ØD	L1	L2	L3	A *	М	Р		/e area m²)	Weight
(mm)	R		flats)								Nylon	Urethane	(g)
	M5 x 0.8	KQ2LU04-M5				24	29.5	25.5			4.3	4.1	10
4	M6 x 1.0	KQ2LU04-M6	11	10.4	18.5	24.5	30	23.3	16	10.4	7.0	7.1	
-	1/8	KQ2LU04-01S		10.4	10.5	26.5	32	27.5	10	10.4	6.0	4.1	12
	1/4	KQ2LU04-02S	14			30.5	36	30			0.0	4.1	21
	M5 x 0.8	KQ2LU06-M5				26.5	33	29.5			4.3	4.3	13
	M6 x 1.0	KQ2LU06-M6	13			27	33.5	28.0			4.5	4.3	
6	1/8	KQ2LU06-01S		12.8	21	29.5	36	32	17	12.8			15
	1/4	KQ2LU06-02S	14			33	39.5	33.5			13.9	11.0	22
	3/8	KQ2LU06-03S	17			35	41.5	35					35
	1/8	KQ2LU08-01S				34	41.5	38					27
8	1/4	KQ2LU08-02S	17	15.2	24	37	44.5	38.5	18.5	15.2	26.3	18.2	
	3/8	KQ2LU08-03S				38	45.5	39					35
	1/4	KQ2LU10-02S	19			40	49.5	43.5					41
10	3/8	KQ2LU10-03S	19	18.5	27	41	50.5	44	21	18.5	40.8	29.0	42
	1/2	KQ2LU10-04S	22			44.5	54	45.5					64
	1/4	KQ2LU12-02S				42.5	53	47					57
12	3/8	KQ2LU12-03S	22	20.9	29	43.5	54	47.5	22	20.9	57.2	45.2	58
	1/2	KQ2LU12-04S				46.5	57	49					65

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







45° Male Elbow: KQ2K

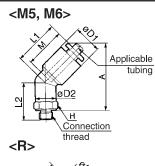


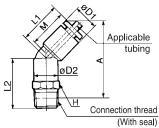




Applicable tubing 0.D. (mm) R	١.	NUZN	<u> </u>											
M5 x 0.8 KQ2K04-M5 N KQ2K04-M5 N KQ2K04-M5 N KQ2K04-M5 N KQ2K04-O1S 10 N KQ2K04-O2S 14 N KQ2K06-M5 N KQ2K06-M5 N KQ2K06-M5 N KQ2K06-M5 N KQ2K06-M5 N KQ2K06-O1S N KQ2K06-O3S N KQ2K06-O3S N KQ2K06-O3S N KQ2K06-O3S N KQ2K06-O3S N		tubing O.D.	thread	Model	(width across	øD1	øD2	L1	L2	A *	М			_
M6 x 1.0 KQ2K04-M6 10 10 10 10 10 10 10 1		(mm)	R		flats)							Nylon	Urethane	(9)
4			M5 x 0.8	KQ2K04-M5	۾		Ω		14.5	26				4
10 10 20.5 32 32 34 3.4 10 19 19 10 19 10 10 10		1	M6 x 1.0	KQ2K04-M6		10.4		4-7	15	20	16	2.4	24	5
M5 x 0.8 KQ2K06-M5 R R R R R R R R R		7	1/8	KQ2K04-01S	10	10.4	10	17	20.5	32	16	3.4	3.4	10
M6 x 1.0 KQ2K06-M6 8 8 18.5 15 27.5 3.4 3.4 5 1/8 KQ2K06-01S 10 12.8 20.5 33 17 8.7 6.9 10 3/8 KQ2K06-03S 17 12 22.5 36.5 27.5 3.4 3.4 5 1/4 KQ2K06-03S 17 12 22.5 36.5 27.5 8.7 6.9 10 3/8 KQ2K08-03S 17 15.2 12 20.5 26 39 18.5 19.7 19.7 21 3/8 KQ2K10-01S 17 18.5 17 24 22 27 43.5 21 30.9 23.2 26 3/8 KQ2K10-04S 22 17 20.9 17 25 29.5 47.5 22 44.5 35.1 38 28 1/2 KQ2K12-04S 22 26.5 29.5 47.5 22 24.5 22 25 25.5 25.6 65.8 65.8 65.8 65			1/4	KQ2K04-02S	14		10		24.5	34				19
6 M6 x 1.0 KQ2K06-M6 10 12.8 10 18.5 15 33 17 8.7 6.9 10 3/8 KQ2K06-03S 17 15.2 12 20.5 26.5 36.5 22 37 13 14 3/8 KQ2K08-03S 17 15.2 12 20.5 26 39 18.5 19.7 19.7 21 3/8 KQ2K08-03S 17 18.5 17 24 27 43.5 29 45 33 47.5 21 30.9 23.2 26 3/8 KQ2K10-04S 22 27.5 45.5 22 44.5 35.1 38 1/2 KQ2K12-04S 22 26.5 20.9 30 32 55 25 65.8 665.8 52 28 41.5 36.5 37			M5 x 0.8	KQ2K06-M5			,	18	14.5	27.5		2.4	24	
10 18 24.5 35 8.7 6.9 10 33 38 KQ2K06-03S 17 15.2 12 20.5 26 39 18.5 19.7 19.7 21 35 38 KQ2K10-01S 1/4 KQ2K10-02S 1/4 KQ2K10-03S 1/2 KQ2K10-04S 22 1/4 KQ2K10-04S 22 1/4 KQ2K12-02S 1/4 KQ2K12-02S 1/4 KQ2K12-04S 22 26.5 29.9 30 32 55 25 65.8 65.8 52 10 33 33 34.5 36 38 KQ2K10-03S 1/2 KQ2K110-04S 22 26.5 29.9 30 32 55 25 65.8 65.8 52 33 34.5 35 38 34.5 36 36 36 36 36 36 36 3			M6 x 1.0	KQ2K06-M6	0		0	18.5	15	27.5		3.4	3.4	5
3/8 KQ2K06-03S 17 26.5 36.5 33 33 34 35 35 36 36 36 36 36 36		6	1/8	KQ2K06-01S	10	12.8			20.5	33	17			12
10 18 KQ2K08-01S 12 15.2 12 20.5 26 39 18.5 19.7 19.7 21 35 36 KQ2K10-01S 17 18.5 17 24 27 43.5 29 45 36 38 KQ2K10-04S 22 14 KQ2K10-04S 22 17 25 27.5 45.5 22 44.5 35.1 38 16 38 KQ2K10-04S 22 26.5 29 30 32 55 25 65.8 (65.8) 52 30 30 30 30 30 30 30 3			1/4	KQ2K06-02S	14		10	18	24.5	35		8.7	6.9	10
8			3/8	KQ2K06-03S	17				26.5	36.5				33
10			1/8	KQ2K08-01S	12				22	37				13
10		8	1/4	KQ2K08-02S	14	15.2	12	20.5	26	39	18.5	19.7	19.7	21
10			3/8	KQ2K08-03S	17				28	41				35
10			1/8	KQ2K10-01S					24	42				25
3/8 KQ2K10-03S 29 45 36 63		10	1/4	KQ2K10-02S	17	19.5	17	24	27	43.5	21	20.0	22.2	26
12		10	3/8	KQ2K10-03S		10.5	17	24	29	45	ا ' '	30.9	23.2	36
12			1/2	KQ2K10-04S	22				33	47.5				63
12			1/4	KQ2K12-02S	47				27.5	45.5				28
16 3/8 KQ2K16-03S 22 26.5 20.9 30 32 55 25 65.8 (65.8) 52		12	3/8	KQ2K12-03S] '/	20.9	17	25	29.5	47.5	22	44.5	35.1	38
16 22 26.5 20.9 30 25 25 25 25 25 25 25 2			1/2	KQ2K12-04S	22				33.5	49.5				65
16 1/2 KQ2K16-04S 22 20.5 20.9 30 35 56.5 25 91.9 (78.3) 58		40	3/8	KQ2K16-03S	20	26.5	20.0	20	32	55	O.F.	65.8	(65.8)	52
		16	1/2	KQ2K16-04S	22	20.5	20.9	30	35	56.5	25	91.9	(78.3)	58

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





 $\mathsf{K}\square$

 $\mathsf{M}\square$

 $H\square$

 $\mathsf{D}\square$

MS

 $\mathsf{T}\Box$

VMG

Universal Male Elbow: KQ2V

<m5></m5>	Applicable tubing O.D. (mm)	Connection thread	Model	(width across flats)	(1) øD1	øD2	L1	L2	L3	A *	М	Effectiv (mi Nylon	111-7	Weight (g)	<m5></m5>
-	(11111)		KQ2V04-M5	iiais)		0.0	20.5	44	10.5	15		INVIOIT	Uretriane	6	<u>M</u>
(4)	4	M5 x 0.8	KQ2V04-M5	8	10.4	9.8 13.4		14,5	18.5 26.5	15 22,5	16	2.9	2.9	14	· · · · · · · · · · · · · · · · · · ·
-		M5 x 0.8	KQ2V04-015			9.8		12	18.5			3.8	3.8	_	
#	6	1/8	KQ2V06-01S	8	12.8			14.5		22.5	17			15	
Б	0	1/4	KQ2V06-01S	10	12.0	15.4		18.5	31	25	''	7.5	5.9	26	Applicable tubing
<r></r>		1/8	KQ2V08-01S					15.5	_	24.5				24	øD2 M5 x 0.8
	8	1/4	KQ2V08-02S	12	15.2	17.6	28.5	18.5	31.5		18.5	16	11.2	30	
		3/8	KQ2V08-03S	14		20.6	27.5	20.5	36.5			20.5	14.3	47	<r></r>
and the second	10	1/4	KQ2V10-02S	4.4	10.5	20.6	21	19.5	35.5	29.5	21	27	20.3	40	H L1
The second of	10	3/8	KQ2V10-03S	14	18.5	20.6	31	20.5	36.5	30	2	21	20.3	49	M -
100	12	3/8	KQ2V12-03S	17	20.9	25.2	3/1	22	38.5	32	22	39	30.8	63	
	12	1/2	KQ2V12-04S	17	20.9	25.2	54	25	41.5	33.5	22	39	30.0	80	
	16	3/8	KQ2V16-03S	21	26.5	32.3	30	26.5	46.5	40.5	25	55	(55)	103	
	10	1/2	KQ2V16-04S		20.5	32.3	39	29.5	49.5	41.5	23	78	(65)	110	Applicable tubing
					5	. <i>.)</i>) №	Note 1) øD: N	Иах. d	iamete		thread	d insta	llation.	Connection thread (With seal)

Hexagon Socket Head Universal Male Elbow: KQ2VS

<m5></m5>	Applicable tubing O.D. (mm)	Connection thread R	Model	(width across flats)	Note) ØD1	øD2	L1	L2	L3	A *	М		ve area m²) Urethane	Weight	<m5></m5>	L1 M
(a)	4	M5 1/8	KQ2VS04-M5 KQ2VS04-01S	4 6	10.4	9.8 13.4	20.5 22	10.5 14.5		15 22.5	16	2.9	2.9	6	m	
36.2		M5	KQ2VS06-M5	4		9.8		12	18	15		3.8	3.8	7	기의	<u></u>
	6	1/8	KQ2VS06-01S	6	12.8	13.4	24	14.5		22.5	17	7 . 5	5.9	15	<u>+ + </u>	ØD2 Connection thread
_		1/ ₄ 1/ ₈	KQ2VS06-02S KQ2VS08-01S			15.3	23.5	18.5 15.5		21 23				22		Applicable tubing
<r></r>	8	1/4	KQ2VS08-01S	8	15.2	17.6	28.5	18.5		24	18.5	16	11.2	30	<r></r>	
		3/8	KQ2VS08-03S			20.6	27.5	20.5	32.5	26		20.5	14.3	47	\II/	H L1 M
(2)	10	1/ ₄ 3/ ₈	KQ2VS10-02S KQ2VS10-03S	8	18.5	20.6	31	19.5 20.5	31.5 32.5	25 26	21	27	20.3	32		H
		3/8	KQ2VS10-03S			05.0		20.5	36	30				48		
4	12	1/2	KQ2VS12-04S	10	20.9	25.2	34	25	39	31	22	39	30.8	67	의 +	
					5	* ! (_	Refer				after F	thread	d instal	lation.	[-]	Applicable tubing Connection thread (With seal)

Universal Female Elbow: KQ2VF

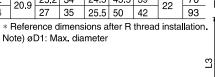
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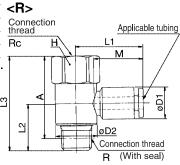
<R>



Applicable tubing O.D. (mm)		Model	(width across flats)	Note) Ø D1	øD2	L1	L2	L3	A	M*	Weight (g)
4	M5 x 0.8	KQ2VF04-M5	8	10.4	9.8	20.5	11	20	16	16	6
4	1/8	KQ2VF04-01S	14	10.4	13.4	22	15.5	29.5	25.5	0	19
	M5 x 0.8	KQ2VF06-M5	8		9.8	23.5	12.5	20	16		7
6	1/8	KQ2VF06-01S	14	12.8	13.4	24.5	15.5	29.5	25.5	17	19
	1/4	KQ2VF06-02S	17		17.6	25	20	38.5	32.5		36
	1/8	KQ2VF08-01S	17		17.6	28.5	17	31	27		29
8	1/4	KQ2VF08-02S	17	15.2	17.0	20.5	20	38.5	32.5	18.5	37
	3/8	KQ2VF08-03S	22		25.2	29.5	25.5	45.5	39		66
10	1/4	KQ2VF10-02S	19	18.5	20.6	31.5	22	41	35	21	48
10	3/8	KQ2VF10-03S	22	10.5	25.2	31.3	24.5	45.5	39	4	68
12	3/8	KQ2VF12-03S	22	20.9	25.2	34	24.5	45.5	39	22	70
12	1/2	KQ2VF12-04S	24	20.3	27	35	25.5	50	42	22	93

Connection thread L1 M5 x 0.8 M M5 x 0.8





<M5>

Female Elbow: KQ2LF

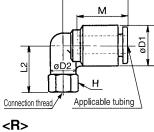
<M5, M6>

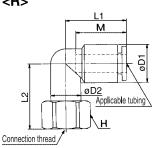


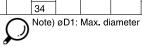
<Rc>



Applicable tubing O.D.	Connection thread	Model	(width across	Note) Ø D1	øD2	L1	L2	М	(mı	/e area m²)	Weight	
(mm)	Rc		flats)						Nylon	Urethane	(g)	
	M5 x 0.8	KQ2LF04-M5	8		8		14.5		0.5	٥.		
4	M6 x 1.0	KQ2LF04-M6	"	10.4	°	40.5	15.5	4.0	3.5	3.5	5	
4	1/8	KQ2LF04-01	14	10.4	10	18.5	21	16	4.0	4.0	13	
	1/4	KQ2LF04-02	17		10		24.5		4.2	4.2	20	
	M5 x 0.8	KQ2LF06-M5	8		8		15		3.5	3.5	5	
	M6 x 1.0	KQ2LF06-M6	٥		8		16		3.5	5. 5	6	
6	1/8	KQ2LF06-01	14	12.8		20.5	22	17			13	
	1/4	KQ2LF06-02	17		10		25.5		11.4	9.0	20	
	3/8	KQ2LF06-03	19				26				20	
	1/8	KQ2LF08-01	14				23				16	
8	1/4	KQ2LF08-02	17	15.2	12	23.5	26.5	18.5	21.6	14.9	22	
	3/8	KQ2LF08-03	19				27				23	
	1/4	KQ2LF10-02	17				28		21.6	14.9	27	
10	3/8	KQ2LF10-03	19	18.5	17	26.5	28.5	21	35.2	25.0		
	1/2	KQ2LF10-04	24				32.5		33.2	25.0	46	
	1/4	KQ2LF12-02	17				29.5				29	
12	3/8	KQ2LF12-03	19	20.9	17	28.5	30	22	50.2	39.7	29	
	1/2	KQ2LF12-04	24				34				48	
						$\overline{}$	N1-4-1	-D4.	Max di			



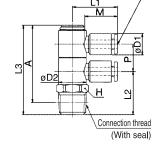




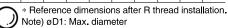
Double Universal Male Elbow: KQ2VD



Applicable tubing O.D. (mm)	Connection thread R	Model	(width across flats)	Note) ØD1	øD2	L1	L2	L3	A *	М	P	Weight (g)
	1/8	KQ2VD04-01S	14				18.5	41	37			23
4	1/4	KQ2VD04-02S	14	10.4	13.4	22	21.5	44	38	16	13.4	29
	3/8	KQ2VD04-03S	17				23.5	46	40			42
	1/8	KQ2VD06-01S	14				18.5	41	37			24
6	1/4	KQ2VD06-02S	14	12.8	13.4	24.5	21.5	44	38	17	13.4	30
	3/8	KQ2VD06-03S	17				23.5	46	40			42
	1/8	KQ2VD08-01S					21	48	44			53
8	1/4	KQ2VD08-02S	19	450	170	00.5	24	51	45	40.5	450	51
0	3/8	KQ2VD08-03S		15.2	17.6	28.5	25	52	45.5	18,5	15.9	60
	1/2	KQ2VD08-04S	21				28.5	55.5	47.5			82
	1/4	KQ2VD10-02S					26.5	58	52			71
10	3/8	KQ2VD10-03S	21	18.5	20.6	31.5	27.5	59	53	21	19.2	74
	1/2	KQ2VD10-04S					30.5	62	54			91
	1/4	KQ2VD12-02S					28.5	64.5	58.5			118
12	3/8	KQ2VD12-03S	26	20.9	25.2	34	29.5	65.5	59	22	21.6	113
	1/2	KQ2VD12-04S					32.5	68.5	60			125



2-applicable tubing



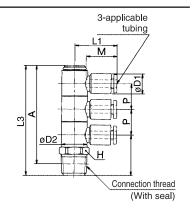


Triple Universal Male Elbow: KQ2VT



Applicable tubing O.D. (mm)	Connection thread R	Model	(width across flats)	Note) Ø D1	øD2	L1	L2	L3	A *	М	Р	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	45.0	17.6	00.5	24	67	61	10.5	45.0	66
J	3/8	KQ2VT08-03S		15.2	17.0	28.5	25	68	61.5	18.5	15.9	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	94
	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
				* Ref	ferenc	e dim	ensio	ns afte	er R th	nread	instal	lation.

Note) øD1: Max. diameter



K□

M□

Н□

D□

MS

__

T□ VMG



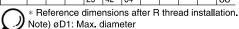


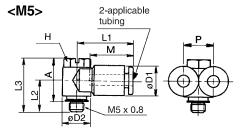


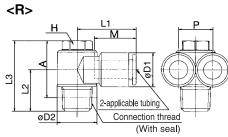




Applic tubing		Connection thread	Model	H (width across	Note) Ø D1	øD2	L1	L2	L3	A *	М	Р	Effectiv	/e area m²)	Weight
(mı	m)	R		flats)									Nylon	Urethane	(g)
	,	M5 x 0.8	KQ2Z04-M5	8	10.4	9.8	19.5	11	18.5	15	16	10.4	3.4	3.4	8
	+	1/8	KQ2Z04-01S	0	10.4	13.4	21	14.5	26.5	22.5	10	10.4	4.7	4.7	16
		1/8	KQ2Z06-01S	8		13.4	22	14.5	26.5	22.5					17
6	3	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	25.5	20.5	36.5	30					47
		1/8	KQ2Z08-01S	12		17.6	26	15.5	28.5	24.5					27
8	3	1/4	KQ2Z08-02S	12	15.2	17.0	20	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
10	`	1/4	KQ2Z10-02S	14	40.5	20.6	20	19.5	35.5	29.5				00.0	46
10	_	3/8	KQ2Z10-03S	14	18.5	20.0	29	20.5	36.5	30	21	18.5	31.8	22.6	54
12	,]	3/8	KQ2Z12-03S	17	20.0	25.0	32.5	22	39	32.5	00	00.0	44.0	05.0	71
12	_	1/2	KQ2Z12-04S	17	20.9	20.2	32.3	25	42	34	22	20.9	44.6	35.3	88







Branch Universal Female Elbow: KQ2ZF

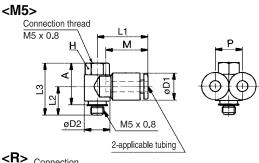


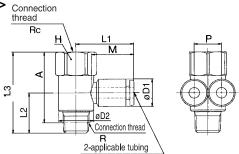




	Applicable tubing O.D. (mm)	Connection thread R Rc	Model	H (width across flats)	Note) Ø D1	øD2	L1	L2	L3	A *	М	Р	Weight (g)
	4	M5 x 0.8	KQ2ZF04-M5	8	10.4	9.8	19.5	11	20	16.5	16	10.4	8
	4	1/8	KQ2ZF04-01S	14	10.4	13.4	21	15.5	29.5	25.5	10	10.4	21
	6	1/8	KQ2ZF06-01S	14	400	13.4	22	15.5	29.5	25.5	47	100	21
		1/4	KQ2ZF06-02S	19	12.8	20.6	25.5	22	41	35	17	12.8	47
	8	1/8	KQ2ZF08-01S	17	45.0	17.6	25.5	17	31	27	10.	1	32
	0	1/4	KQ2ZF08-02S	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		10.	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	00		77	
	12	1/2	KQ2ZF12-04S	24	20.9	27	33	25	50	42	22	20.9	101

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



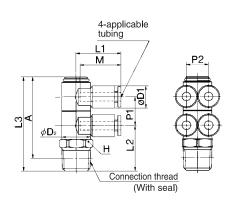




Double Branch Universal Male Elbow: KQ2ZD



Applicable tubing O.D. (mm)	Connection threads R	Model	(width across flats)	Note) Ø D1	øD2	L1	L2	L3	A *	М	P1	P2	Weight (g)
	1/8	KQ2ZD04-01S	14				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				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					21	48	44				76
8	1/4	KQ2ZD08-02S	19	45.0	17.0	00	24	51	45	10.5	45.0	45.0	72
J	3/8	KQ2ZD08-03S		15.2	17.6	26	25	52	45.5	18.5	15.9	15.2	81
	1/2	KQ2ZD08-04S	21				28.5	55.5	47.5				102
	1/4	KQ2ZD10-02S					26.5	58	52				111
10	3/8	KQ2ZD10-03S	21	18.5	20.6	29	27.5	59	53	21	19.2	18.5	111
	1/2	KQ2ZD10-04S					30.5	62	54				128
12	1/4	KQ2ZD12-02S					28.5	64.5	58.5				178
	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



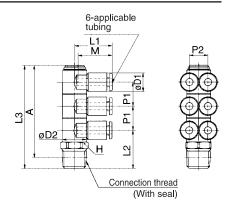


* Reference dimensions after R thread installation. Note) øD1: Max. diameter

Triple Branch Universal Male Elbow: KQ2ZT



Applicable tubing O.D. (mm)	Connection threads R	Model	H (width across flats)	Note) Ø D1	øD2	L1	L2	L3	A *	M	P1	P2	Weight (g)
	1/8	KQ2ZT04-01S	14				18.5	54.5	50.5				25
4	1/4	KQ2ZT04-02S	14	10.4	13.4	21	21.5	57.5	51.5	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	45.0	47.0		24	67	61	10.5	45.0	45.0	54
J	3/8	KQ2ZT08-03S		15.2	17.6	26	25	68	61.5	18.5	15.9	15.2	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



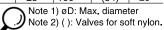


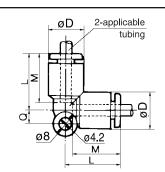
* Reference dimensions after R thread installation. Note) øD1: Max. diameter

Union Elbow: KQ2L



Applicable tubing O.D.	Model	ø D	L	Q	М		e area ⁽²⁾ m²)	Weight	
(mm)						Nylon	Urethane	(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	
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	

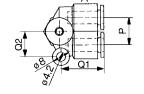




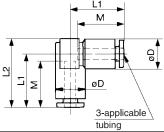
Branch Union Elbow: KQ2LU



Applicable tubing O.D.	Model	Note) Ø D	L1	L2	Q1	Q2	М	Р		/e area m²)	Weight
(mm)									Nylon	Urethane	(g)
4	KQ2LU04-00	10.4	18.5	24	18.5	10	16	10.4	6.0	4.1	6
6	KQ2LU06-00	12.8	21	27.5	20.5	12	17	12.8	13.9	11.0	8
8	KQ2LU08-00	15.2	24	32	24.5	14	18.5	15.2	26.3	18.2	15
10	KQ2LU10-00	18.5	27	36.5	28	16	21	18.5	40.8	29.0	25
12	KQ2LU12-00	20.9	29	40	30	18	22	20.9	57.2	45.2	32



Note) ØD: Max. diameter



K□

 $\mathsf{M}\square$

 $H\square$

 $\mathsf{D}\Box$

MS

 $\mathsf{T}\Box$

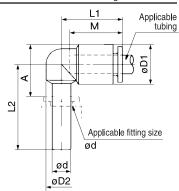
VMG

Plug-in Elbow: KQ2L



Applicable tubing O.D.	Applicable fitting size	Model	øD1	øD2	L1	L2	A	м	(mı	TI")	Weight (g)	
(mm)	ød								Nylon	Urethane	(9)	
3.2	3.2	KQ2L23-99	9.6	7	17	24.5	14	15.5	3	2.5	2	
4	4	KQ2L04-99	10.4	8	18	25	14.5	16	4.2	4.2	3	
6	6	KQ2L06-99	12.8	10	20	27.5	17	17	11.4	9.0	3	
8	8	KQ2L08-99	15.2	12	22.5	31.5	21	18.5	21.6	14.9	5	
10	10	KQ2L10-99	18.5	14	25.5	35.5	23.5	21	35.2	25.0	9	
12	12	KQ2L12-99	20.9	16	27	37.5	26	22	50.2	39.7	10	
16	16	KQ2L16-99	26.5	20.9	34	53	41	25	100	(84)	42	

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



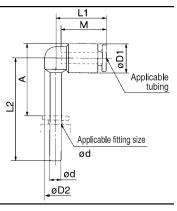
Extended Plug-in Elbow: KQ2W



Applicable tubing O.D. (mm)	Applicable fitting size ød	Model	Note) øD1		L1	L2	A	М	Effectiv (m Nylon	ve area m²) Urethane	Weight (g)
3.2	3.2	KQ2W23-99	9.6	7	17.5	35	24.5	15.5	3	2.5	2
4	4	KQ2W04-99	10.4	8	18	37	26	16	4.2	4.2	3
6	6	KQ2W06-99	12.8	10	20	41.5	31	17	11.4	9.0	4
8	8	KQ2W08-99	15.2	10	22.5	48	37	18.5	21.6	14.9	6
10	10	KQ2W10-99	18.5	14	25.5	55	43.5	21	35.2	25.0	9
12	12	KQ2W12-99	20.9	16	27	59.5	48	22	50.2	39.7	13

Note) ØD: Max. diameter

Note) øD1: Max. diameter



Reducer Elbow: KQ2L



_												
	Applicable tubing O.D.	Applicable fitting size	Model	Note) ØD1	øD2	L1	L2	Α	М	Effectiv (m	/e area m²)	Weight
	(mm)	ød								Nylon	Urethane	(g)
	3.2	4	KQ2L23-04	9.6	7	17	25	13.5	15.5	3	2.5	2
	4	6	KQ2L04-06	10.4	8	18	26	14.5	16	4.2	4.2	3
	4	8	KQ2L04-08	10.4	10	10	35	22	10	4.2	4.2	11
	6	8	KQ2L06-08	12.8	10	19.5	30.5	18	17	11.4	9.0	12
	O	10	KQ2L06-10	12.0	1	20	38.5	24	17	11.4	9.0	19
	8	10	KQ2L08-10	15.2	12	22.5	33.5	20.5	18.5	21.6	14.9	20
	0	12	KQ2L08-12	15.2	12	23	40.5	26	10.3	21.0	14.9	27
	10	12	KQ2L10-12	18.5	17	26.5	42	29.5	21	35.2	25.0	29
	12	16	KQ2L12-16	20.9	17	28.5	49.5	34.5	22	50.2	39.7	53

Applicable fitting size ed

Extended Male Elbow: KQ2W

<M5>



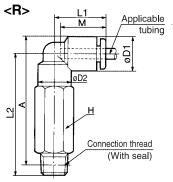




	1102211											
Applicable tubing O.D.	Connection thread	Model	H (width across	ø D1	øD2	L1	L2	A *	M	(m	e area ⁽²⁾ m²)	(a)
(mm)	R		flats)							Nylon	Urethane	(9)
	M5 x 0.8	KQ2W23-M5	8		8		30	31				10
3.2	1/8	KQ2W23-01S	10	9.6	10	17.5	37	38	15.5	2.8	2.4	19
	1/4	KQ2W23-02S	14		10		43	42				41
	M5 x 0.8	KQ2W04-M5	8		8		30	32		3.0	3.0	11
4	1/8	KQ2W04-01S	10	10.4	10	18	37.5	38.5	16	4.0	4.0	23
	1/4	KQ2W04-02S	14		10		43.5	42.5		7.0	7.0	38
	M5 x 0.8	KQ2W06-M5	8		8		30.5	33.5		3	3	11
6	1/8	KQ2W06-01S	10	100		00	40	42.5	17			26
0	1/4	KQ2W06-02S	14	12.8	10	20	46	46.5	17	10.9	8.6	41
	3/8	KQ2W06-03S	17	1			48	48				67
	1/8	KQ2W08-01S	12				43.5	47				30
8	1/4	KQ2W08-02S	14	15.2	12	23	49.5	51	18.5	20.5	14.2	47
	3/8	KQ2W08-03S	17				51.5	52.5				74
	1/4	KQ2W10-02S	17				56.5	59.5				66
10	3/8	KQ2W10-03S	17	18.5	17	26.5	58.5	61	21	33.5	23.8	76
	1/2	KQ2W10-04S	22				65	66				145
	1/4	KQ2W12-02S	17				57.5	62				68
12	3/8	KQ2W12-03S	17	20.9 1	17	28.5	59.5	63.5	22	47.7	37.7	78
	1/2	KQ2W12-04S	22				66	68.5				147
16	3/8	KQ2W16-03S	22	00.5	00.0	0.4	69.5	76	0.5	71	(71)	101
10	1/2	KQ2W16-04S		26.5	20.9	34	75	80	25	100	(84)	105

Applicable tubing

M5 x 0.8



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

Male Branch Tee: KQ2T

<M5>



<M6>







е	: KQ2	Т												
	Applicable tubing O.D.	Connection thread	Model	H (width across	øD1	øD2	L1	L2	A *	М	(mr		Weight (g)	
	(mm)	R		flats)							,	Urethane		
		M5 x 0.8	KQ2T23-M5	7	8.4	_	15.3	13.2	14.3	12.7	3.2	2.7	3.2	
	3.2	1/8	KQ2T23-01S	10	9.6	10	17.5	21.5		15.5	3.4	2.9	10	
		1/4	KQ2T23-02S	14				25.5	24.5				20	
		M5 x 0.8	KQ2T04-M5	7	9.3	_	15.6	13.7	15.3	12.7	4.5	4.5	3.5	
	4	M6 x 1.0	KQ2T04-M6	8				14.7					4.4	c
	•	1/8	KQ2T04-01S	10	10.4	10	18	22	23	16	6.0	4.1	13	_
		1/4	KQ2T04-02S	14				26	25				19	
		M5 x 0.8	KQ2T06-M5	7	11.6		16.1	14.7	17.4	13.5	4.5	4.5	4.4	
		M6 x 1.0	KQ2T06-M6	8				15.7		.0.0			5.3	
	6	1/8	KQ2T06-01S	10				23	25.5				12	
		1/4	KQ2T06-02S	14	12.8	10	20	27	27.5	17	13.9	11.0	20	
		3/8	KQ2T06-03S	17				29	29				34	
		1/8	KQ2T08-01S	12				24.5	28				14	7
	8	1/4	KQ2T08-02S	14	15.2	12	23	28.5	30	18.5	26.3	18.2	22	
		3/8	KQ2T08-03S	17				30.5	31.5				36	۲
		1/8	KQ2T10-01S					27	32				31	-
	10	1/4	KQ2T10-02S	17	18.5	17	26.5	30	33	21	40.0	29.0	29	
	10	3/8	KQ2T10-03S		10.5	17	20.5	32	34.5	21	40.8	29.0	39	İ
		1/2	KQ2T10-04S	22				36	37				66	
	12	1/4	KQ2T12-02S	17				31	35.5				31	
		3/8	KQ2T12-03S	''	20.9	17	28.5	33	37	22	57.2	45.2	41	
		1/2	KQ2T12-04S	22				37	39.5				68	
16	3/8	KQ2T16-03S		00.5	00.0		38	44.5	05	71	(71)	112		
	1/2	KQ2T16-04S	22	26.5	20.9	34	40.5	46	25	100	(100)	116		

* Reference dimensions after R thread installation. Note 1) øD1: Max. diameter Note 2) (): Values for soft nylon.

2-applicable tubing

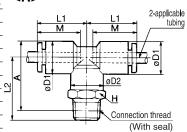
H Connection thread

2-applicable tubing

Connection thread

2-applicable tubing

<M5, M6>



Union Tee: KQ2T



Applicable tubing O.D. (mm)	Model	øD ⁽¹⁾	L	Q	М		e area ⁽²⁾ im²) Urethane	Weight (g)
3.2	KQ2T23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KQ2T04-00	10.4	18	4.5	16	6.4	4.4	7
6	KQ2T06-00	12.8	20	5.3	17	13.4	10.6	10
8	KQ2T08-00	15.2	23	6	18.5	25.6	17.7	15
10	KQ2T10-00	18.5	26.5	6.8	21	40	28.4	25
12	KQ2T12-00	20.9	28.5	7.5	22	57.4	45.4	29
16	KQ2T16-00	26.5	34	10	25	100	(84)	40

3-applicable tubing

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

$\mathsf{K}\square$

$\mathsf{M}\square$

$H\square$

 $\mathsf{D}\Box$

Applicable

MS

 $\mathsf{T}\Box$

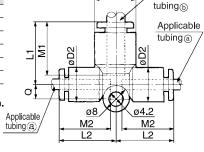
VMG

Different Diameter Tee: KQ2T



Applicab O.D.		Model	øD1	øD2	L1	L2	Q	M1	M2		e area (2) m²)	Weight
a	b									Nylon	Urethane	(g)
3.2	4	KQ2T23-04	10.4	9.6	18	17.5	4.3	16	15.5	3.8	3.5	5
4	6	KQ2T04-06	12.8	10.4	19.5	18	4.5	17	16	7.1	6.5	5
6	8	KQ2T06-08	15.2	12.8	22.5	20	5.3	18.5	17	16.4	16.4	8
8	10	KQ2T08-10	18.5	15.2	26.5	23	6	21	18.5	36	27.2	14
10	12	KQ2T10-12	20.9	18.5	28.5	26.5	6.8	22	21	56	44.5	21
12	16	KQ2T12-16	26.5	26.5	34	39	10	25	22	108.5	(92.2)	88

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



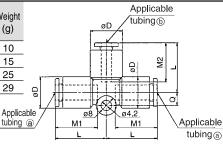
øD1

Different Diameter Tee: KQ2T



	le tubing (mm)	Model	Note) Ø D	L	Q	M1	M2		ve area m²)	Weight	
<u>a</u>	b							Nylon	Urethane	(g)	
6	4	KQ2T06-04	12.8	20	5.3	17	16	6.4	4.4	10	
8	6	KQ2T08-06	15.2	23	6	18.5	17	13.4	10.6	15	
10	8	KQ2T10-08	18.5	26.5	7.5	21	18.5	25.6	17.7	25	
12	10	KQ2T12-10	20.9	28.5	7.5	22	21	40	28.4	29	

Note) øD: Max. diameter

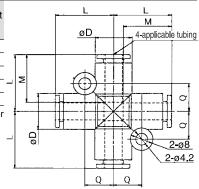


Cross: KQ2TW



Applicable tubing O.D.	Model	Note) Ø D	L	Q	м		ve area m²)	Weight
(mm)						Nylon	Urethane	(g)
4	KQ2TW04-00	10.4	18	8.7	16	6.4	4.4	9
6	KQ2TW06-00	12.8	20	9.9	17	13.4	10.6	13
8	KQ2TW08-00	15.2	23	11.1	18.5	25.6	17.7	20
10	KQ2TW10-00	18.5	26.5	12.8	21	40	28.4	33 -
12	KQ2TW12-00	20.9	28.5	13.9	22	57.4	45.4	39

Note) øD: Max. diameter



Different Diameter Cross: KQ2TX



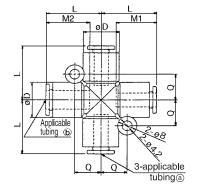
	le tubing (mm)	Model	øD Note)	L	Q	M1	M2	Effectiv (m)	re area m²)	Weight	_	
a	b							Nylon	Urethane	(g)		
6	8	KQ2TX06-08	15.2	23	11.1	18.5	17	13.4	10.6	13		
8	10	KQ2TX08-10	18.5	26.5	12.8	21	18.5	25.6	17.7	27		
10	12	KQ2TX10-12	20.9	28.5	13.9	22	21	40	28.4	36	-	
Note) ØD: Max, diameter												

øD Applicable tubing@ Applicable tubing **b** Applicable tubing (6) Applicable tubing@

Different Diameter Cross: KQ2TY



	(mm)	Model	Note) Ø D	L	Q	M1	M2	(m	ve area m²) Urethane	Weight (g)
6	8	KQ2TY06-08	15,2	23	11.1	17	18.5	13.4	10.6	15
8	10	KQ2TY08-10	18.5	26.5	12.8	18.5	21	25.6	17.7	23
10	12	KQ2TY10-12	20.9	28.5	13.9	21	22	40	28.4	35



Note) øD: max. diameter

Male Run Tee: KQ2Y





<M6>



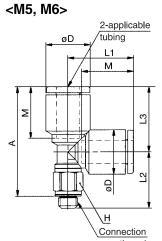
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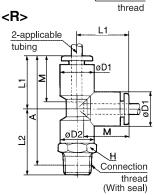


Applicable tubing O.E	thread	Model	(width across	øD1	øD2	L1	L2	L3	A *	М	(mı		Weight (g)
(mm)		1/00//00 115	flats)	- 1		45.4	10.0	440	04.0	40.7	,	Urethane	
	M5 x 0.8	KQ2Y23-M5	7	8.4	_	15.4	13.2	14.8	24.9	12.7	3.2	2.7	3.2
3.2		KQ2Y23-01S	10	9.6	10	17.5	21.5	_	35	15.5	3.4	2.9	10
	1/4	KQ2Y23-02S	14				25.5		37				20
	M5 x 0.8	KQ2Y04-M5	7	9.3		15.6	13.7	14.8	25.4	12.7	4.5	4.5	3.5
4	M6 x 1.0	KQ2Y04-M6	8	-0.0		.0.0	14.7						6
7	1/8	KQ2Y04-01S	10	10.4	10	18	22		36	16	6.4	4.4	13
	1/4	KQ2Y04-02S	14	10.4			26		38	10	0.4	7.7	19
	M5 x 0.8	KQ2Y06-M5	7	11.6		17.1	14.7	17.1	28.7	13.5	4.5	4.5	4.5
	M6 x 1.0	KQ2Y06-M6	8	1.0		17.1	15.7	17.1	20.7	13.3	4.5	4.5	7
6	1/8	KQ2Y06-01S	10				23		39				12
	1/4	KQ2Y06-02S	14	12.8	10	20	27	_	41	17	13.4	10.6	20
	3/8	KQ2Y06-03S	17				29		42.5				34
	1/8	KQ2Y08-01S	12				24.5		43.5				14
8	1/4	KQ2Y08-02S	14	15.2	12	23	28.5	_	45.5	18.5	25.6	17.7	22
	3/8	KQ2Y08-03S	17				30.5		47				36
	1/8	KQ2Y10-01S					27		49.5				31
4.0	1/4	KQ2Y10-02S	17				30		50.5				29
10	3/8	KQ2Y10-03S	1	18.5	17	26.5	32	_	52	21	40.0	28.4	39
	1/2	KQ2Y10-04S	22				36		54.5				66
	1/4	KQ2Y12-02S					31		53.5				31
12	3/8	KQ2Y12-03S	17	20.9	17	28.5	33		55	22	57.4	45.4	41
	1/2	KQ2Y12-04S	22				37		57.5				68
	3/8	KQ2Y16-03S					38		65.5		81	(81)	112
16	1/2	KQ2Y16-04S	22	26.5	20.9	34	41	_	67	25	113	(113)	

* Reference dimensions after R thread installation. Note 1) øD: Max. diameter

Note 2) (): Values for soft nylon





Male Delta Union: KQ2D

<M5, M6>

<R>



tubing O.D.	thread	Model	(width across	øD		L2	A *	М	Q		m ²)	Weight
(mm)	R		flats)							Nylon	Urethane	(g)
	M5 x 0.8	KQ2D04-M5				24	25.5			2.2	2.2	10
4	M6 x 1.0	KQ2D04-M6	11	40.4	40.5	24.5	23.3	16	8.7	4.3	4.3	10
4	1/8	KQ2D04-01S		10.4	18.5	26.5	27.5	10	0.7	6.0	6.0	12
	1/4	KQ2D04-02S	14			30.5	29.5			0.0	0.0	21
	M5 x 0.8	KQ2D06-M5				26	28.5			4.3	4.3	12
	M6 x 1.0	KQ2D06-M6	13			26.5	20.3			4.5	4.5	12
6	1/8	KQ2D06-01S	_	12.8	20.5	29	31.5	17	9.9			14
	1/4	KQ2D06-02S	14			32.5	33			13.9	11.0	21
	3/8	KQ2D06-03S	17			34.5	34.5					34
	1/8	KQ2D08-01S				33.5	37					26
8	1/4	KQ2D08-02S	17	15.2	23.5	36.5	38	18.5	11.1	26.3	18.2	20
	3/8	KQ2D08-03S				37.5	38.5					35
	1/4	KQ2D10-02S	19			39.5	43					39
10	3/8	KQ2D10-03S	13	18.5	26.5	40.5	43.5	21	12.8	40.8	29.0	40
	1/2	KQ2D10-04S	22			44	45					62
	1/4	KQ2D12-02S				42	46.5					55
12	3/8	KQ2D12-03S	22	20.9	28.5	43	47	22	13.9	57.2	45.2	56
	1/2	KQ2D12-04S				46	48.5					63

 $\mathsf{K}\square$

 $\mathsf{M}\square$

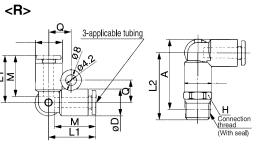
 $H\square$

 $\mathsf{D}\Box$

MS

 $\mathsf{T}\Box$

VMG



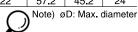


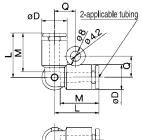
* Reference dimensions after R thread installation.
Note) ØD: Max. diameter

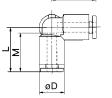
Delta Union: KQ2D



Applicable tubing O.D.	Model	Note) Ø D	L	Q	М		ve area m²)	Weight	
(mm)						Nylon	Urethane	(g)	
4	KQ2D04-00	10.4	18.5	8.7	16	6.0	4.1	5	
6	KQ2D06-00	12.8	20.5	9.9	17	13.9	11.0	7	
8	KQ2D08-00	15.2	23.5	11.1	18.5	26.3	18.2	11	
10	KQ2D10-00	18.5	26.5	12.8	21	40.8	29.0	19	
12	KQ2D12-00	20.9	28.5	13.9	22	57.2	45.2	24	







Branch "Y": KQ2U

<M5, M6>

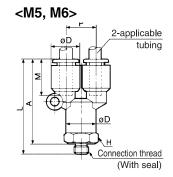


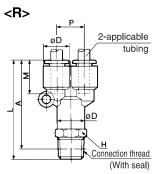
<R>



20											
Applicable tubing O.D.	Connection thread	Model	(width across	ø D	L	Р	A *	М	(m	e area ⁽²⁾ m²)	(a)
(mm)	R		flats)						Nylon	Urethane	(9)
	M5 x 0.8	KQ2U23-M5	10		38		34.5		2.2	2.2	9
3.2	1/8	KQ2U23-01S	11	9.6	41	9.6	37	15.5	3.4	2.9	14
	1/4	KQ2U23-02S	14		44		38		3.4	2.9	14
	M5 x 0.8	KQ2U04-M5			39.5		00		2.2	2,2	4
4	M6 x 1.0	KQ2U04-M6	11	10.4	40	101	36	16	2.2	2.2	10
4	1/8	KQ2U04-01S		10.4	42	10.4	38	16	4.2	4.2	11
	1/4	KQ2U04-02S	14		46		40		4.2	4.4	20
	M5 x 0.8	KQ2U06-M5			42.5		39		2.2	2.2	12
	M6 x 1.0	KQ2U06-M6	13		43		39		2.2	2.2	12
6	1/8	KQ2U06-01S		12.8	45.5	12.8	41.5	17			11
	1/4	KQ2U06-02S	14		49		43		13.4	10.6	21
	3/8	KQ2U06-03S	17		51		44.5				34
	1/8	KQ2U08-01S			52.5		48.5				15
8	1/4	KQ2U08-02S	17	15.2	55.5	15.2	49.5	18.5	25.6	17.7	23
	3/8	KQ2U08-03S			56.5		50				35
	1/4	KQ2U10-02S	19		61		55				30
10	3/8	KQ2U10-03S	19	18.5	62	18.5	55.5	21	40	28.4	40
	1/2	KQ2U10-04S	22		65		57				65
	1/4	KQ2U12-02S			64.5		58.5				32
12	3/8	KQ2U12-03S	22	20.9	65.5	20.9	59	22	57.4	45.4	40
	1/2	KQ2U12-04S]		68.5		60.5				65
40	3/8	KQ2U16-03S			76	06.5	69.5		81	(81)	106
16	1/2	KQ2U16-04S	27	26.5	79	26.5	71	25	113	(96)	111
				*	Referer	nce dim	ension	s after	R threa	ad inst	allation.

* Reference dimensions after R thread installation Note 1) øD1: Max. diameter Note 2) (): Values for soft nylon



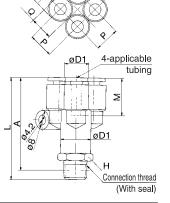


Delta Branch: KQ2UD



Applica tubing ((mn	O.D.	Connection thread R	Model	H (width across flats)	Note) ØD1	øD2	L	ı	A *	Q	М	Р	(m	ve area m²) Urethane	Weight
4		1/8	KQ2UD04-01S	13	10.4	12.8	43.5	21	39.5	9.7	16	10.4	4.2	4.2	17
4		1/4	KQ2UD04-02S	14	10.4	12.0	47	۷1	41	9.7	10	10.4	4.2	4.2	25
6		1/8	KQ2UD06-01S		400	45.0	50.5	00	46.5	11	1	40.0	40.4	100	00
U	0	1/4	KQ2UD06-02S	17	12.8	15.2	53.5	26	47.5	11.7	17	12.8	13.4	10.6	29

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

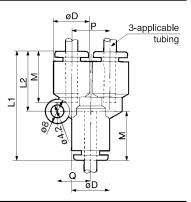


Union "Y": KQ2U



Applicable tubing O.D.	Model	ø D	L1	L2	Р	Q	М	(m	ve area ⁽²⁾ m²)	Weight (g)
(mm)								Nylon	Urethane	(9)
3.2	KQ2U23-00	9.6	33	17.5	9.6	9	15.5	3.4	2.9	5
4	KQ2U04-00	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	KQ2U06-00	12.8	37	20	12.8	11.7	17	13.4	10.6	9
8	KQ2U08-00	15.2	42.5	24.5	15.2	13.7	18.5	25.6	17.7	11
10	KQ2U10-00	18.5	48	27.5	18.5	16.1	21	40	28.4	16
12	KQ2U12-00	20.9	51	30	20.9	18.1	22	57.4	45.4	23
16	KQ2U16-00	26.5	61.5	36.5	26.5	23	25	113	(96)	54

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

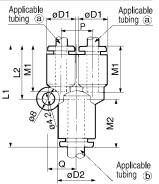


Different Diameter Union "Y": KQ2U



	le tubing (mm)	Model	Note) Ø D1	Note) ØD2	L1	L2	Р	Q	M1	M2	Effectiv (m)		Weight
a	b										Nylon	Urethane	(g)
3.2	4	KQ2U23-04	9.6	10.4	33.5	17.5	9.6	9	15.5	16	3,2	2,7	5
4	6	KQ2U04-06	10.4	12.8	35	18	10.4	9.7	16	17	4.2	4.2	6
6	8	KQ2U06-08	12.8	15.2	39.5	20	12.8	11.7	17	18.5	13.4	10.6	11
8	10	KQ2U08-10	15.2	18.5	45	24.5	15.2	13.7	18.5	21	25.6	17.7	18
10	12	KQ2U10-12	18.5	20.9	49	27.5	18.5	16.1	21	22	40	28.4	27
12	16	KQ2U12-16	26.5	26.5	66.5	41.5	26.5	23	22	25	57.4	45.4	100

Note) ØD1.ØD2: Max. diameter

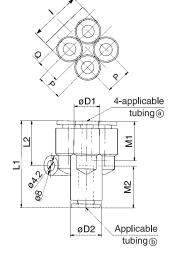


Different Diameter Double Union "Y": KQ2UD



Applicable tubing O.D. (mm) (a) (b)		1		Note) ØD2		L2	Р	ı	Q	M1	M2	Effectiv (m)		Weight
a	(b)											Nylon	Urethane	(g)
4	6	KQ2UD04-06	10.4	12.8	35.5	18.2	10.4	21	9.7	16	17	4.2	4.2	10
6	8	KQ2UD06-08	12.8	15.2	40.5	20.3	12.8	26	11.7	17	18.5	13.4	10.6	17

Note) øD1,øD2: Max. diameter



Plug-in "Y": KQ2U



	Applicable tubing O.D. (mm)	Application fitting ød	Model	ø D	L1	L2	Р	Q	А	М		e area ⁽²⁾ m²) Urethane	Weight
Ī	3.2	3.2	KQ2U23-99	9.6	50	17.5	9.6	9	35	15.5	3.4	2.9	6
	4	4	KQ2U04-99	10.4	51.5	18	10.4	9.7	35.5	16	4.2	4.2	12
	6	6	KQ2U06-99	12.8	55.5	20	12.8	11.7	38.5	17	13.4	10.6	18
	8	8	KQ2U08-99	15.2	64.5	24.5	15.2	13.7	46	18.5	25.6	17.7	21
	10	10	KQ2U10-99	18.5	71.5	27.5	18.5	16.1	50.5	21	40	28.4	26
	12	12	KQ2U12-99	20.9	75.5	30	20.9	18.1	53.5	22	57.4	45.4	32
	16	16	KQ2U16-99	26.5	90	36.5	26.5	23	65	25	113	(96)	78

Applicable fitting size ød

 $\mathsf{K}\square$

 $\mathsf{M}\square$

 $H\square$

 $\mathsf{D}\square$

MS

 $\mathsf{T}\Box$

VMG

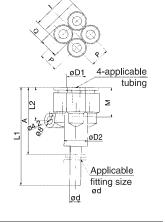
Note 1) øD: Max. diameter Note 2) (): Values for soft nylon.

Double Plug-in "Y": KQ2XD



Applicable tubing O.D.	fitting	Model	Note) øD1	øD2	L1	L2	ı	Ø	A	Р	М	(mı		Weight (g)
(mm)	Fitting size ød											Nylon	Urethane	(3)
4	6	KQ2XD04-06	10.4	12.8	54	18.2	21	9.7	37	10.4	16	4.2	4.2	10
6	8	KQ2XD06-08	12.8	15.2	62.5	20.3	26	11.7	44	12.8	17	13.4	10.6	23

Note) øD1: Max. diameter

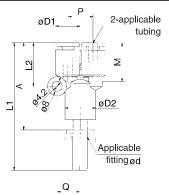


Different Diameter Plug-in "Y": KQ2X



Applicable tubing O.D. (mm)		Model	Note) øD1	øD2	L1	L2	Α	Р	Q	M	χ	ve area m²) Urethane	(a)
4	6	KQ2X04-06	10.4	12.8	53.5	18.5	36.5	10.4	9.7	16	4.2	4.2	7
6	8	KQ2X06-08	12.8	15.2	61.5	20.5	43	12.8	11.7	17	13.4	10.6	18
8	10	KQ2X08-10	15.2	18.5	68.5	24.5	47.5	15.2	13.7	18.5	25.6	17.7	28
10	12	KQ2X10-12	18.5	20.9	73.5	27.5	51.5	18.5	16.1	21	40	28.4	42

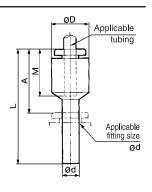
Note) øD1: Max. diameter



Plug-in Reducer: KQ2R



Applicable tubing O.D. (mm)	Applicable fitting size	Model	øD ⁽¹⁾	L	А	М		ve area ⁽²⁾ m²) Urethane	Weight (g)
3.2	4	KQ2R23-04	9.6	33.5	18.5	15.5	3.4	2.9	2
3.2			9.0			15.5	3.4	2.9	_
	6	KQ2R04-06	10.4	34.5	17.5				1.8
4	8	KQ2R04-08	10.4	36.5	18	16	5.6	4	2.0
	10	KQ2R04-10	12.8	39.5	18.5				3.3
	4	KQ2R06-04	12.8	37	21		4	4	2.5
6	8	KQ2R06-08	100	37	18.5	17			2.5
O	10	KQ2R06-10	12.8	39.5	18.5	17	13.1	10.4	3
	12	KQ2R06-12	15.2	42	20				4.7
8	10	KQ2R08-10	15.2	41	20	18.5	26.1	18.0	4.0
0	12	KQ2R08-12	15.2	42	20	10.5	20.1	10.0	4.6
10	12	KQ2R10-12	18.5	44.5	23	21	41 E	32.8	33
10	16	KQ2R10-16	20.9	50.5	25.5		41.5	(29.5)	42
12	16	KQ2R12-16	20.9	50.5	25.5	22	58.3	(46.1)	37



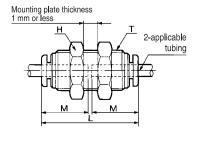


Note 1) ØD: Max. diameter Note 2) (): Values for soft nylon.

Bulkhead Union: KQ2E



Applicable tubing O.D. (mm)	Model	T (M)	(width across flats)	L	Mounting hole	M		area ^{Note)} m²) Urethane	Weight (g)
3.2	KQ2E23-00	M12 x 1	14	31.5	13	15.5	3.4	2.9	26
4	KQ2E04-00	M12 x 1	14	32.5	13	16	5.6	4	26
6	KQ2E06-00	M14 x 1	17	34.5	15	17	13.1	10.4	33
8	KQ2E08-00	M16 x 1	19	38	17	18.5	26.1	18.0	52
10	KQ2E10-00	M20 x 1	24	42.5	21	21	41.5	29.5	70
12	KQ2E12-00	M22 x 1	27	44	23	22	58.3	46.1	90
16	KQ2E16-00	M28 x 1.5	32	51	29	25	113	(96)	115



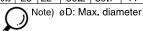


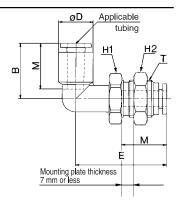
Note) (): Values for soft nylon.

Bulkhead Male Elbow: KQ2LE



Applicable tubing O.D.	Model	т	H1 (Hex.	H2 (Hex. across	В	Е	Note) ØD	Mounting hole	М	Effectiv (mi		Weight	_
(mm)			flats)	flats)				HOIE		Nylon	Urethane	(g)	
4	KQ2LE04-00	M12 x 1	14	14	18.5	31	10.4	13	16	4.2	4.2	18	
6	KQ2LE06-00	M14 x 1	17	17	20.5	34	12.8	15	17	11.4	9.0	25_	
8	KQ2LE08-00	M16 x 1	17	19	23.5	38.5	15.2	17	18.5	21.6	14.9	33	
10	KQ2LE10-00	M20 x 1	22	24	26.5	43.5	18.5	21	21	35.2	25.0	63	
12	KQ2LE12-00	M22 x 1	24	27	28.5	45.5	20.9	23	22	50.2	39.7	77	

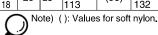


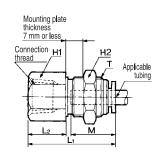


Bulkhead Connector: KQ2E



Applicable tubing O.D.	Connection thread	Model	Т	H1 (Hex.	H2 (Hex.	L1	L2	Mounting	м	Effective (m	area ^{Note)} ım²)	Weight
(mm)	Rc	Wiedel	(M)	across flats)	across flats)			hole		Nylon	Urethane	(g)
3.2	1/4	KQ2E23-02	M12 x 1	17	14	31.5	15	13	15.5	3.4	2.9	13
4	1/8	KQ2E04-01	M12 x 1	14	14	27.5	11	13	16	5.6	4	16
-	1/4	KQ2E04-02	IVITZ X T	17	14	31	15	13	10	5.0	7	35
	1/8	KQ2E06-01		17		28	11					25
6	1/4	KQ2E06-02	M14 x 1		17	31.5	15	15	17	13.1	10.4	40
	3/8	KQ2E06-03		19		33.5	17					29
	1/8	KQ2E08-01		17		27.5	7.5					28
8	1/4	KQ2E08-02	M16 x 1	17	19	33	13	17	18.5	26.1	18.0	27
	3/8	KQ2E08-03		19		35	15					48
10	1/4	KQ2E10-02	M20 x 1	22	24	34.5	12.5	21	21	41.5	29.5	53
10	3/8	KQ2E10-03	IVIZUXI	22	24	36.5	15	21	41	41.5	29.5	67
12	3/8	KQ2E12-03	M22 x 1	24	27	37	14	23	22	58.3	46.1	92
12	1/2	KQ2E12-04	IVIZZ X I	24	21	41	18	23	22	30.3	40.1	59
16	3/8	KQ2E16-03	M28 v 1 5	30	32	40	14	29	25	96	(96)	127
	1/2	KQ2E16-04	M28 x 1.5 30	30 32	44	18	23	23	113	(96)	132	

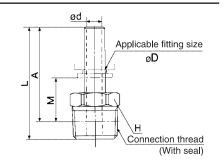




Adaptor: KQ2N



Applicable fitting size ød	Connection thread R	Model	(width across flats)	Г	A *	М	ød	Weight (g)
4	M5 x 0.8	KQ2N04-M5	7	32	29	13	2.5	2
-	1/8	KQ2N04-01S	10	34	30	14	2.5	6
	M5 x 0.8	KQ2N06-M5	7	33	30	13	2.5	2
6	1/8	KQ2N06-01S	10	35	31	14	4.5	5
	1/4	KQ2N06-02S	14	37.5	31.5	14.5	4.5	14
8	1/4	KQ2N08-02S	14	39	33	14.5	6	17
	3/8	KQ2N08-03S	17	41	34.5	16	0	30
10	3/8	KQ2N10-03S	17	46	39.5	18.5	7.5	31
					••			



 $\mathsf{K}\square$

 $\mathsf{M}\square$

 $H\square$

 $\mathsf{D}\Box$

MS

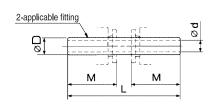
 $\mathsf{T}\Box$

VMG

Nipple: KQ2N

* Reference dimensions after R thread is screwed in.

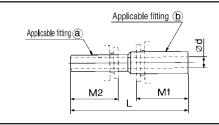
Applicable fitting øD	Model	L	М	ød	Weight (g)
4	KQ2N04-99	37	16	2.5	1
6	KQ2N06-99	39	17	4	2
8	KQ2N08-99	43	18.5	6	2
10	KQ2N10-99	49	21	7.5	4
12	KQ2N12-99	52	22	9	20.6
16	KQ2N16-99	57	25	13	31



Reducer Nipple: KQ2N



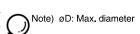
Applicat	ole fitting	Model	L	M1	M2	ød	Weight
a	(b)					~	(g)
4	6	KQ2N04-06	38	17	16	2.5	2
6	8	KQ2N06-08	42	18.5	17	4	2
8	10	KQ2N08-10	47	21	18.5	6	13.2
10	12	KQ2N10-12	51	22	21	8	18.2
12	16	KQ2N12-16	55	25	22	9	29

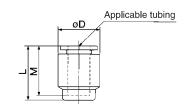


Tube Cap: KQ2C



Applicable tubing O.D. (mm)	Model	Note) Ø D	L	М	Weight (g)
4	KQ2C04-00	10.4	17	16	3
6	KQ2C06-00	12.8	18.5	17	3
8	KQ2C08-00	15.2	20.5	18.5	4
10	KQ2C10-00	18.5	23	21	6
12	KQ2C12-00	20.9	24	22	8
16	KQ2C16-00	26.5	28	25	13



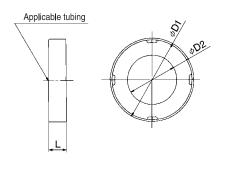


Color Cap: KQ2C





Applicable tubing O.D. (mm)	Model	øD1	øD2	L	Weight (g)	Application
4	KQ2C-04□	10.1	5.2	2.9	0.1	
4	KQ2C-04A-□	8.5	5	2.2	0.1	KQH, KQ2H04-M5, M6 KQS, KQ2S04-M5, M6
4	KQ2C-04B-□	9.7	5	2.2	0.1	KQL, KQ2L04-M5, M6 KQT, KQ2T04-M5, M6 KQY, KQ2Y04-M5, M6
6	KQ2C-06□	12.1	7.2	2.9	0.1	
6	KQ2C-06A-□	10.5	7	2.2	0.1	KQH, KQ2H06-M5, M6 KQS, KQ2S06-M5, M6
6	KQ2C-06B- □	12.0	7	2.2	0.1	KQL, KQ2L06-M5, M6 KQT, KQ2T06-M5, M6 KQY, KQ2Y06-M5, M6
8	KQ2C-08□	14.1	9.2		0.1	
10	KQ2C-10 □	17.1	11.2	2.9	0.2	
12	KQ2C-12 □	19.1	13.2		0.2	
16	KQ2C-16 □	26.3	17.2	3.9	0.3	

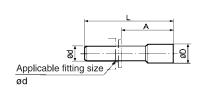


Plug: KQ2P, KQP



Applicable fitting size ød	Мо	del ^{Note)}	øD	L	A	Weight (g)
3.2	KQ2P-23	KQP-23	5	31.5	16	1
4	KQ2P-04	KQP-04	6	32	16	1
6	KQ2P-06	KQP-06	8	35	18	1
8	KQ2P-08	KQP-08	10	39	20.5	2
10	KQ2P-10	KQP-10	12	43	22	3.5
12	KQ2P-12	KQP-12	14	45.5	24	5
16	KQ2P-16	KQP-16	20.9	47	22	8

Note) KQ2P (White), KQP (Blue)





Made to Order

Series KQ2

Made to Order Specifications:

Please consult with SMC for detailed specifications, dimensions and delivery.

1. Oil-free applications using Vaseline®

For use in oil-free applications, for example, paint air lines.

Specifications Same as Series KQ2. Dimensions Same as Series KQ2.

How to Order ······· Add "-X12" at the end of the standard part number.

(Example: KQ2H06-02-X12)

2. Stainless One-touch fittings

For use in highly corrosive atmospheres where brass is not acceptable.

Specifications Same as Series KQ2.

Dimensions Same as Series KQ2. (Some may be different,

please consult with SMC)

Materials in each part

Body*	Stainless steel ☐, PBT
Stud*	Stainless steel ☐ (Thread portion)
Chuck	Stainless steel 304
Guide*	Stainless steel□, POM
Collet, Release button	РОМ
Seal, O-ring	NBR

 $[\]ast$ Every one of Stainless steel 303, Stainless steel 304 and Stainless steel 316 is possible to use.

How to Order Please consult with SMC.



K□

M□

H□

D□

MS T

VMG

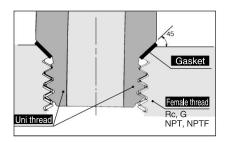


Applicable Tubing: Metric Size

Connection Thread: Rc, G, NPT, NPTF

New-stand male thread for piping that reduces the screw-in time by 1/3.





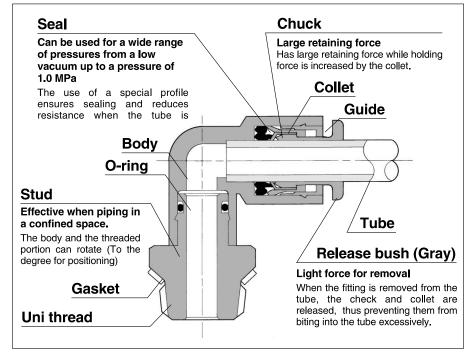
Uni thread ridge shape

A gasket made of a stainless sheet covered with laminated NBR on both sides is seated on the chamfer of a female thread for a perfect sealing construction irrespective of the difference in thread diameters due to the difference in the types of female threads, variation in tolerance, or difference in the size of chamfer. (It is applicable to any female thread with an ordinary chamfer.)

A ridge shape has been created as a Uni thread for common applications for Rc, G, NPT and NPTF.

The male thread for piping drastically cuts piping manhours.





Applicable Tubing

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

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 pressure	-100 kPa
Proof pressure	3.0 MPa
Ambient and fluid temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)

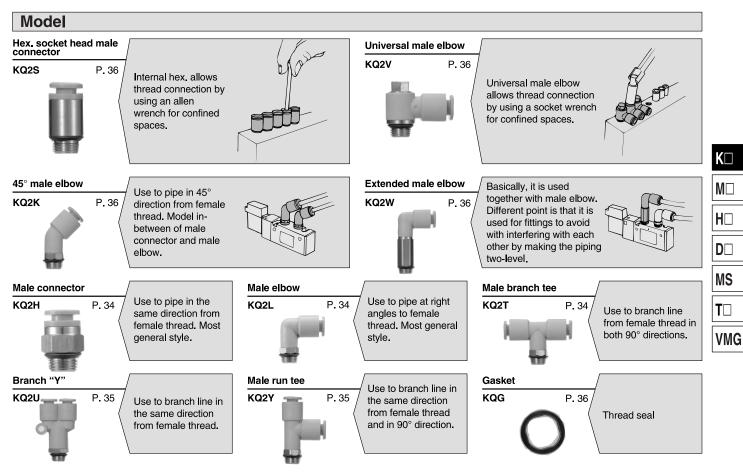
Note) Applicable for general industrial water. Please consult with SMC if using for other kinds of fluid.

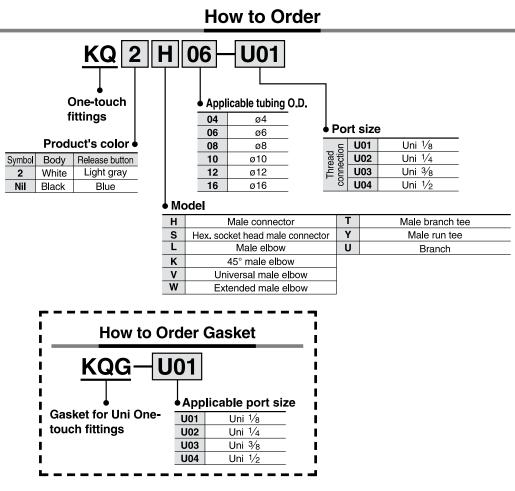
Also, the surge pressure must be under the maximum operating pressure.

Principal Parts Material

Body	C3604BD, PBT
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



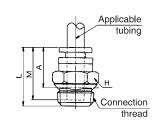




<Metric size> Male Connector: KQ2H



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	H (width across flats)	L	A *	М	Effective area (mm²) Nylon Urethane		Weight (g)
4	1/8	KQ2H04-U01	10	18.5	13.5	16	5.6	5.6	5
4	1/4	KQ2H04-U02	14	16.5	10.5	10	3.0	5.	10
6	1/8	KQ2H06-U01	12	19.5	14.5			13.1	5
	1/4	KQ2H06-U02	14	18.3	13	17	13.1		10
	3/8	KQ2H06-U03	17	17.5	11.5				16
	1/8	KQ2H08-U01	14	25	20.5		26.1	18.0	11
8	1/4	KQ2H08-U02	14	21.5	15.5	18.5			27
	3/8	KQ2H08-U03	17	19.5	13.5				33
	1/8	KQ2H10-U01		00	23		44.5	29.5	17
10	1/4	KQ2H10-U02	17	28	22				17
10	3/8	KQ2H10-U03		24	18	21	41.5		14
	1/2	KQ2H10-U04	22	22	14				28
	1/4	KQ2H12-U02	19	30.5	24.5				22
12	3/8	KQ2H12-U03	19	25.5	19.5	22	58.3	46.1	16
	1/2	KQ2H12-U04	22	24.5	16.5				28
16	3/8	KQ2H16-U03	24	33.5	27.5	24	81	(81)	39
10	1/2	KQ2H16-U04	24	28.5	20.5	24	113	(96)	25
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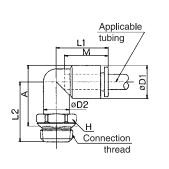


^{*} Reference dimensions after Uni thread installation. Note) Dimensions in () are the case of soft nylon tubing.

<Metric size> Male Elbow: KQ2L



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	(width across flats)	øD1	øD2	L1	L2	A *	М	(m	/e area m²) Urethane	Weight (g)
4	1/8	KQ2L04-U01	10	10.4	10	18	20	20.5	16	4.2	4.2	8
7	1/4	KQ2L04-U02	14	10.4	10		22	21.5	10	4.2	4.2	14
	1/8	KQ2L06-U01	10				21.5	23,5				9
6	1/4	KQ2L06-U02	14	12.8	10	20	23	23.3	17	11.4	11.4	15
	3/8	KQ2L06-U03	17				24	24.5				23
	1/8	KQ2L08-U01	12			22.5	25.5				11	
8	1/4	KQ2L08-U02	14	15.2	12	23	24.5	26	18.5	21.6	14.9	16_
	3/8	KQ2L08-U03	17				25.5	27				24
	1/8	KQ2L10-U01		18.5	17	26.5	25	29.5	0.4	21.6	14.9	24
10	1/4	KQ2L10-U02	17				26.5	30		35.2	25.0	21
10	3/8	KQ2L10-U03	1				27	30.5	21			25
	1/2	KQ2L10-U04	22				30	31.5				45
	1/4	KQ2L12-U02	17				27	31.5				23
12	3/8	KQ2L12-U03	''	20.9	17	28.5	28	32.5	22	50.2	39.7	27
	1/2	KQ2L12-U04	22				31	33.5				48
16	3/8	KQ2L16-U03	22	26,5	1	00	40.5	33	24	71	(71)	49
10	1/2	KQ2L16-U04	22	20,5	21	33	40.5	35	4	100	(84)	50



^{*} Reference dimensions after Uni thread installation. Note) Dimensions in () are the case of soft nylon tubing.

<Metric size> Male Branch Tee: KQ2T



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	(width across flats)	øD1	øD2	L1	L2	A *	М	(m	ve area m²) Urethane	Weight (g)
4	1/8	KQ2T04-U01	10	40.4	40		20	04.5				9
4	1/4	KQ2T04-U02	14	10.4	10	18	22	21.5	16	6.0	6.0	15
6	1/8	KQ2T06-U01	10				21.5	23.5				11
	1/4	KQ2T06-U02	14	12.8	10	20	23	23.5	17	13.9	13.9	17
	3/8	KQ2T06-U03	17				24	24.5				26
8	1/8	KQ2T08-U01	12	15.2		23	22.5	26		26.3	18.2	15
	1/4	KQ2T08-U02	14		12		24.5	20	18.5			20
	3/8	KQ2T08-U03	17				25.5	27				28
	1/8	KQ2T10-U01			17	26.5	25	29.5		40.0	29.0	30
10	1/4	KQ2T10-U02	17	18.5			26.5	30				27
10	3/8	KQ2T10-U03		10.5	''	20.3	27	30.5	21	40.8		31
	1/2	KQ2T10-U04	22				30	31.5				51
	1/4	KQ2T12-U02	17				27	31.5				31
12	3/8	KQ2T12-U03	''	20.9	17	28.5	28	32.5	22	57.2	45.2	34
'-	1/2	KQ2T12-U04	22				31	33.5				54
16	3/8	KQ2T16-U03	22	26,9	21	33	40 E	33	0.4	71	(71)	62
10	1/2	KQ2T16-U04	22	20.9	ا کا		40.5	35	24	100	(100)	63

²⁻applicable tubing
L1
M
M
OD2
Connection thread

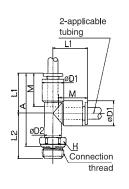
^{*} Reference dimensions after Uni thread installation. Note) Dimensions in () are the case of soft nylon tubing.



<Metric size> Male Run Tee: KQ2Y



Applicable tubing O.D	l throad	Model	H (width across	øD1	øD2	L1	L2	A	М		ve area m²)	Weight
(mm)	fittings		flats)							Nylon	Urethane	(g)
4	1/8	KQ2Y04-U01	10	10.4	10	18	20	34	16	6.4	6.4	9
7	1/4	KQ2Y04-U02	14	10.4	10	10	22	34.5	10	0.4	0.4	15
	1/8	KQ2Y06-U01	10		10		21.5	37.5		13.4		11
6	1/4	KQ2Y06-U02	14	12.8		20	23	37	17		13.4	17
	3/8	KQ2Y06-U03	17				24	38				26
8	1/8	KQ2Y08-U01	12		12	23	22.5	41.5			17,7	15
	1/4	KQ2Y08-U02	14	15.2			24.5	41.5	18.5	25.6		19
	3/8	KQ2Y08-U03	17				25.5	42.5				28
	1/8	KQ2Y10-U01	17			25	46.5				30	
10	1/4	KQ2Y10-U02		18.5	17	26.5	26.5	47.5	04	40.0	28.4	27
10	3/8	KQ2Y10-U03		10.5			27	48	21	40.0		31
	1/2	KQ2Y10-U04	22				30	49				51
	1/4	KQ2Y12-U02	17				27	49.5				31
12	3/8	KQ2Y12-U03	''	20.9	17	28.5	28	50.5	22	57.4	45.4	35
	1/2	KQ2Y12-U04	22				31	51.5				55
16	3/8 KQ2Y16-U03	22	26.5		22	40 5	66	24	81	(81)	61	
16	1/2	KQ2Y16-U04		20.5	21	33	40.5	63	24	113	(113)	62
* Refere	nce dimer	neione aftar I Ini	thread	d ineta	llation	No	اما (ما	nancic	ne in i	() are t	the res	a of eof



^{*} Reference dimensions after Uni thread installation. Note) Dimensions in () are the case of soft nylon tubing.

M

K□

H

D□

MS

T

T□ VMG

<Metric size> Branch: KQ2U



Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	Model	(width across flats)	øD	L	Р	A *	М	(m	/e area m²) Urethane	Weight (g)
4	1/8	KQ2U04-U01	11	10.4	40	10.4	36	16	4.2	4.2	11
4	1/4	KQ2U04-U02	14	10.7	42	.01.	30			4.2	16
6	1/8	KQ2U06-U01	13		43.5		39.5				14
	1/4	KQ2U06-U02	14	· · ·	45	12.8	39	17	13.4	13.4	18
	3/8	KQ2U06-U03	17		46		40				26
	1/8	KQ2U08-U01	17	15.2	50.5	15.2	46.5	18.5	25.6	17.7	27
8	1/4	KQ2U08-U02			52		46				25
	3/8	KQ2U08-U03			51.5		45.5				28
	1/4	KQ2U10-U02	19		E7 E		51.5				38
10	3/8	KQ2U10-U03	19	18.5	57.5	18.5	51.5	21	40	28.4	36
	1/2	KQ2U10-U04	22		59	1	51				51
	1/4 KQ2U12-U02			61		E E				53	
12	3/8	KQ2U12-U03	22	20.9	01	20.9	55	22	57.4	45.4	52
	1/2	KQ2U12-U04			62.5		54.5				52

 $[\]ast$ Reference dimensions after Uni thread installation.

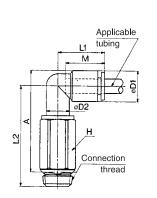
2-applicable tubing P ØD Connection thread

<Metric size> Extended Male Elbow: KQ2W



Applicable tubing O.D.	Connection thread Uni One-touch	Model	H (width across	øD1	øD2	L1	L2	A *	М	(m	/e area m²)	Weight (g)
(mm)	fittings		flats)							Nylon	Urethane	(9)
4	1/8	KQ2W04-U01	10	10.4	10	18	34.5	35.5	16	4.0	4.0	16
	1/4	KQ2W04-U02	14	10.4	10	10	37	38.5	4.0	4.0	26	
	1/8	KQ2W06-U01	10			20	38.5	41				18
6	1/4	KQ2W06-U02	14	- '-'	10		40.5	17	17	10.9	10.9	29
	3/8	KQ2W06-U03	17				41.5	42				40
	1/8	KQ2W08-U01	12	15.2	12	23	43.5	46.5	18	20.5	14.2	28
8	1/4	KQ2W08-U02	14				45.5	47				35
	3/8	KQ2W08-U03	17				46	48				46
	1/4	KQ2W10-U02	17				52.5					67
10	3/8	KQ2W10-U03	17	18.5	17	26.5	32.3	56	21	33.5	23.8	57
	1/2	KQ2W10-U04	22				54.5					98
	1/4	KQ2W12-U02	17				54					69
12	3/8	KQ2W12-U03	17	20.9	17	28.5	J4	58.5 22	47.7 3	37.7	59	
	1/2	KQ2W12-U04	22				56				99	

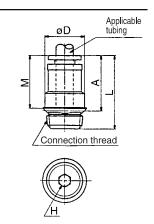
^{*} Reference dimensions after Uni thread installation.



<Metric size> Hexagon Socket Head Male Connector: KQ2S



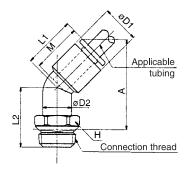
Applicable tubing O.D.	Connection thread Uni One-touch	Model	H (width across	øD	L	A *	М	(m	/e area m²)	Weight (g)
(mm)	fittings		flats)					Nylon	Urethane	(3)
4	1/8	KQ2S04-U01	3	10	23.5	18.5	16	4.1	3.6	7
6	1/8	KQ2S06-U01	4	11.8	24	19	17	10.0	9.9	9
U	1/4	KQ2S06-U02	4	13.5	24	18		10.7	10.0	12
8	1/8	KQ2S08-U01	5	14	27.5	22.5		17.2		12
	1/4	KQ2S08-U02		14	28	22	18.5	23.3	16.2	14
	3/8	KQ2S08-U03	6	17	27.5	21.5		23.3		24
	1/8	KQ2S10-U01	5		30	25		17.2	10.0	18
10	1/4	KQ2S10-U02		17	29	23	21	39.0	26.6	17
10	3/8	KQ2S10-U03	8		28.5	22.5				19
	1/2	KQ2S10-U04		21	29	21				36
12	1/4	KQ2S12-U02	8	19	30.5	25		46.0		20
	3/8	KQ2S12-U03	9	19	31	23	22	60.0	44.5	22
	1/2	KQ2S12-U04	9	21	28.5	20.5		00.0		30



<Metric size> 45° Male Elbow: KQ2K



Applicate tubing O	.D. Uni One-touch	Model	(width across flats)	øD1	øD2	L1	L2	A *	М	(m	/e area m²) Urethane	Weight (g)
4	1/8	KQ2K04-U01	10	10 10.4	10	17	18.5	30	10	3.4	3.4	6
-	1/4	KQ2K04-U02	14				20.5	30.5	16			13
	1/8	KQ2K06-U01	10		10	18	18.5	31	17	8.7	8.7	7
6	1/4	KQ2K06-U02	14	12.8			20.5	اد				13
	3/8	KQ2K06-U03	17				21.5	32				23
8	1/8	KQ2K08-U01	12	15.2	12	20.5	20	35		19.7	13.6	11
	1/4	KQ2K08-U02	14				22	33	18.5			15
	3/8	KQ2K08-U03	17				23	36				24
	1/8	KQ2K10-U01					22	38		21.6	14.9	24
10	1/4	KQ2K10-U02	17	18.5	17	24	23.5	40.5	21	30.9	23.2	21
12	3/8	KQ2K10-U03					24	41				25
	1/2	KQ2K10-U04	22				27	42				45
	1/4	KQ2K12-U02	17			25	24	42	- 1	44.5		23
	3/8	KQ2K12-U03	''_	20.9	17		24.5	42.5			35.1	27
	1/2	KQ2K12-U04	22				27.5	43.5				46



<Metric size> Universal Male Elbow: KQ2V



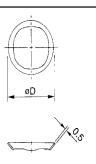
	Applicable tubing O.D. (mm)	Connection thread Uni One-touch fittings	NAI - I	(width across flats)	øD1	øD2	L1	L2	L3	A *	М	(m	ve area m²) Urethane	Weight (g)
	4	1/8	KQ2V04-U01	8	10.4	13.4	22	13.5	25.5	20.5	16	2.9	2.9	12
6	6	1/8	KQ2V06-U01	8	8 12.8	13.4	24	13.5	25.5	20.5	17	7.5	7,5	13
	O	1/4	KQ2V06-U02	10	12.0	15.4	23.5	15.5	28	22	17	7.5	7.5	21
8		1/8	KQ2V08-U01	12	15.2	17.6	28.5	14.5	27.5	22.5	18.5	11,2	24	22
	8	1/4	KQ2V08-U02					16.5	29.5	23.5			30	25
		3/8	KQ2V08-U03	14		20.6	27.5	18.5	34	28		14.3	47	36
10	10	1/4	KQ2V10-U02	4.4	18.5	20.6	.6 31	10.5	3.5 34	28	21	27	20.3	35
	10	3/8	KQ2V10-U03	14	10.3	8.5 20.6		10,5			21	21	20.3	38
12	10	3/8	KQ2V12-U03	17	00.0	05.0	24	20	36.5	30.5	20	00	20.0	52
	12	1/2	KQ2V12-U04	17	20.9	25.2	34	22.5	39.5	31.5	22	39	30.8	62

Applicable tubing Connection thread

<Metric size> Gasket: KQG



Connection thread Uni One-touch fittings	Model	øD	Weight (g)
1/8	KQG-U01	11.8	0.12
1/4	KQG-U02	15.3	0.19
3/8	KQG-U03	18.7	0.23
1/2	KQG-U04	23.4	0.34



^{*} Reference dimensions after Uni thread installation.

^{*} Reference dimensions after Uni thread installation.

^{*} Reference dimensions after Uni thread installation.

APrecautions

Be sure to read before handling.

Refer to pages 15-18-3 to 15-18-4 for Safety Instructions and Common Precautions on the products mentioned in a this catalog, and refer to pages 15-1-10 to 15-1-11 for Precautions on every series.

Handling and Precautions

△ Caution

 First tighten by hand, then use a proper wrench, which could be suitable for the hexagon across flats on the body to tighten with the proper tightening torque given below.

Connecting Female Thread: Rc, NPT, NPTF

Nominal size of Uni thread	Recommended tightening torque (N·m)	Approx. spanner tightening angle after tightened by hand
1/8	5 to 7	30 to 60
1/4	11 to 13	30 to 60
3/8	14 to 16	15 to 45
1/2	20 to 22	15 to 30

Connecting Female Thread: G

Nominal size of Uni thread	Recommended tightening torque (N·m)	Approx. spanner tightening angle after tightened by hand				
1/8	3 to 4	30 to 45				
1/4	4 to 5	15 to 30				
3/8	8 to 9	15 to 30				
1/2	14 to 15	15 to 30				

- 2. Gasket can be recycled 6 to 10 times. It can be replaced easily when it has sustained damage. A broken gasket can be removed by holding and then turning in the same direction of loosening the thread. If it is difficult to remove, cut it with nippers, etc. In such a case, use caution not to scratch seat face because the seat face of 45° gasket of fitting is the sealing face.
- **3.** Please consult with SMC if using for other fluids than air.
- **4.** Other precautions on handling, etc. are the same as those of One-touch fittings.

Chamfered area for female thread (Recommended value)

By chamfering as shown in the following table, machining of threads is easier and effective for burr prevention, too.



Female thread	Chamfered port size øD (Recommended value)					
size	Rc, G	NPT, NPTF				
1/8	10.2 to 11.8	10.5 to 11.8				
1/4	13.6 to 15.8	14.1 to 15.8				
3/8	17.1 to 19.4	17.4 to 19.4				
1/2	21.4 to 25.1	21.7 to 25.1				

K□

M□

H□ D□

MS

INIO

T

VMG