

One-touch Fittings

Series KQ2

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

How to Order

KQ 2 H 06 01 S

One-touch fittings

Product's color

Symbol	Body	Release button
2	White	Light gray
Nil	Black	Blue

Applicable tubing O.D.

Symbol	O.D.
23	ø3.2
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16

Port size/Applicable tubing O.D.

Thread connection	Port size	Applicable tubing O.D.
M5	M5 x 0.8	
M6	M6 x 1.0	
01	R 1/8, Rc 1/8	
02	R 1/4, Rc 1/4	
03	R 3/8, Rc 3/8	
04	R 1/2, Rc 1/2	
00	Same dia. tubing	
04	ø4	(Reducer) Different dia. tubing
06	ø6	
08	ø8	
10	ø10	
12	ø12	
16	ø16	
99	Same dia. rod	

With thread seal

Symbol	With thread seal
Nil	None
S	With thread seal

Note) Port size with seal: Only
R 1/8
R 1/4
R 3/8
R 1/2

Model

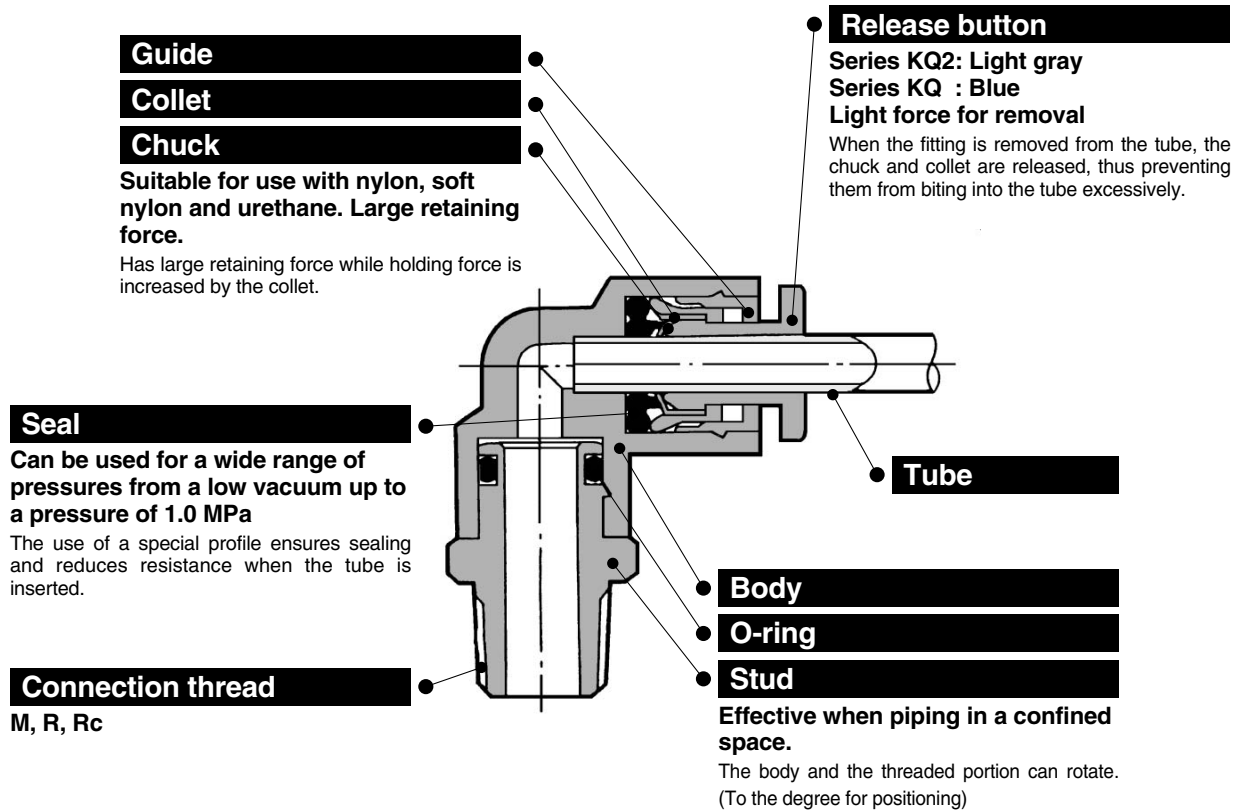
H	Male connector	T	Male branch tee
	Straight union		Union tee
	Different diameter straight		Different diameter tee * (Note)
S	Hex. socket head male connector	TW	Cross*
F	Female connector	TX	Different diameter cross*
	Male elbow	TY	Different diameter cross*
L	Union elbow	Y	Male run tee
	Plug-in elbow		Male delta union
	Reducer elbow	D	Delta union
LU	Male branch connector		Branch
	Branch union elbow	U	Union "Y"
K	45° male elbow		Different dia. union "Y"
V	Universal male elbow		Plug-in "Y"
VS	Hexagon socket head universal male elbow	UD	Delta branch
VF	Universal female elbow		Different dia. double union "Y"
LF	Female elbow	XD	Double plug-in "Y"
VD	Double universal male elbow	X	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		
W	Extended plug-in elbow		
	Extended male elbow		

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

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

* Available only for white color body.
Note) KQT06-04, KQT08-06, KQT10-08, and KQT12-10 are available as made to order.

Series KQ2: White body
Series KQ : Black body



PAT.

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

• **Applications for metric size tubing**

• **Applicable tubing material—Nylon, Soft nylon, Polyurethane**

Applicable Tubing

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 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)	
Thread	Mounting section	JIS B 0203 (Taper thread for piping) JIS B 0209 Class 2 (Metric coarse thread)
	Nut section	JIS B 0211 Class 2 (Metric fine thread)
Seal (Thread portion)		With seal or none

Note) Applicable for general industrial water. Please consult with SMC if using for other kinds of fluid. Also, the surge pressure must be under the maximum operating pressure.

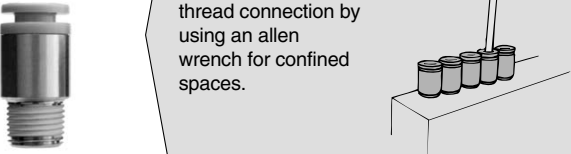
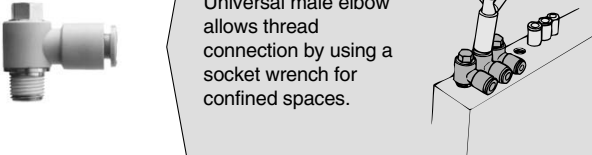
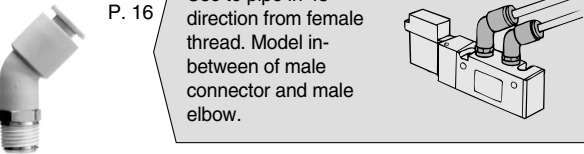
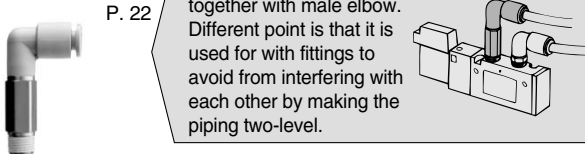
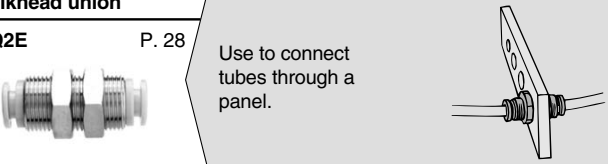
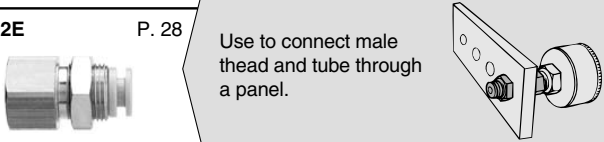
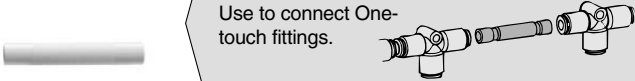
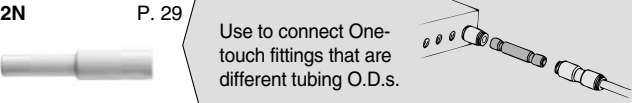













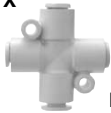

Principal Parts Material

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



P. 15-2-30

Series KQ2

Model		
Hex. socket head male connector		
KQ2S	P. 14	Internal hex. allows thread connection by using an allen wrench for confined spaces.
		
Universal male elbow		
KQ2V	P. 17	Universal male elbow allows thread connection by using a socket wrench for confined spaces.
		
45° male elbow		
KQ2K	P. 16	Use to pipe in 45° direction from female thread. Model in-between of male connector and male elbow.
		
Extended male elbow		
KQ2W	P. 22	Basically, it is used together with male elbow. Different point is that it is used for with fittings to avoid from interfering with each other by making the piping two-level.
		
Bulkhead union		
KQ2E	P. 28	Use to connect tubes through a panel.
		
Bulkhead connector		
KQ2E	P. 28	Use to connect male thread and tube through a panel.
		
Nipple		
KQ2N	P. 29	Use to connect One-touch fittings.
		
Reducer nipple		
KQ2N	P. 29	Use to connect One-touch fittings that are different tubing O.D.s.
		
Male connector		
KQ2H	P. 14	Use to pipe in the same direction from female thread. Most general style.
		
Male elbow		
KQ2L	P. 15	Use to pipe at right angles to female thread. Most general style.
		
Male branch tee		
KQ2T	P. 22	Use to branch line from female thread in both 90° directions.
		
Female connector		
KQ2F	P. 14	Use to pipe from male thread such as pressure gauge.
		
Union elbow		
KQ2L	P. 20	Use to connect tubes at right angles.
		
Union tee		
KQ2T	P. 23	Use to connect tubes in both 90° directions.
		
Straight union		
KQ2H	P. 15	Use to connect tubes in the same direction.
		
Plug-in elbow		
KQ2L	P. 21	Use to change by 90° in a tube fetching from One-touch direction fittings.
		
Different diameter tee		
KQ2T	P. 23	Use to connect tubes with size down in both 90° directions.
		
Different diameter straight		
KQ2H	P. 15	Use to connect different sized tubes.
		
Reducer elbow		
KQ2L	P. 21	Use to change by 90° in a tube fetching direction from One touch fittings and to size down.
		
Different diameter tee		
KQ2T	P. 23	Use to branch line with size down in both side 90° direction.
		
Cross		
KQ2TW	P. 23	Use to four-branch line.
		
Different diameter cross		
KQ2TX	P. 23	Use to connect tubes with size down in all 90° directions.
		
Different diameter cross		
KQ2TY	P. 24	Use to branch line with size down in three directions.
		

Hexagon socket head universal male elbow

KQ2VS P. 17



Hex. on the top allows thread connection by using an allen wrench for confined spaces.

Triple branch universal male elbow

KQ2ZT P. 20



Use to six-branch line at right angles from female thread. Three individual parts rotate 360°.

Union "Y"

KQ2U P. 26



Use to branch line in the same direction.

Male branch connector

KQ2LU P. 16



Use to branch piping at right angles to female thread.

Branch union elbow

KQ2LU P. 21



Use to branch line at right angles.

Different dia. union "Y"

KQ2U P. 26



Use to branch line with size down in the same direction.

Universal female elbow

KQ2VF P. 18



Use to branch line in the same direction or at the right angles from male or female thread. Multiplex connection possible.

Extended plug-in elbow

KQ2W P. 21



When the elbow extends over a standard elbow for ease of connection/disconnection of tube.

Plug-in "Y"

KQ2U P. 27



Use to branch line in the same direction from One-touch fittings.

Female elbow

KQ2LF P. 18



Use to pipe at right angles to male thread.

Male delta union

KQ2D P. 25



Use to branch line in 90° direction from female thread.

Branch "Y"

KQ2U P. 25



Use to branch line in the same direction from female thread.

Double universal male elbow

KQ2VD P. 18



Use to branch line at right angles to female thread. Two individual parts rotate 360°.

Delta union

KQ2D P. 25



Use to branch in tripple 90° direction.

Plug-in reducer

KQ2R P. 28



Use to change size of One-touch fittings.

Triple universal male elbow

KQ2VT P. 19



Use to three-branch line at right angles from female thread. Three individual parts rotate 360°.

Delta branch

KQ2UD P. 26



Use to four-branch line in the same direction from female thread.

Bulkhead male elbow

KQ2LE P. 28



Use to connect tubes through a panel, changing by 90° in a tube fetching direction.

Branch universal male elbow

KQ2Z P. 19



Hexagonal head allows thread connection by using a box wrench. Use for branch connection.

Different dia. double union "Y"

KQ2UD P. 26



Use to four-branch line in the same direction with size down.

Adaptor

KQ2N P. 28



Use to connect fitting and R female thread.

Branch universal female elbow

KQ2ZF P. 19



Use to branch line in the same direction or at right angles from male or female thread. Multiplex connection possible.

Different diameter plug-in "Y"

KQ2X P. 27



Use to branch line from One-touch fitting with size down.

Tube cap

KQ2C P. 29



Use to plug unused tube.

Double branch universal male elbow

KQ2ZD P. 20



Use to four-branch line at right angles from female thread. Two individual parts rotate 360°.

Double plug-in "Y"

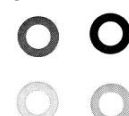
KQ2XD P. 27



Use to four-branch line from One-touch fitting.

Color cap

KQ2C P. 29



Mounted on the release button corresponding to its applications. Distinguished by color.

Male run tee

KQ2Y P. 24



Use to branch line in the same direction from female thread and in 90° direction.

Gasket/Seal for M5 and M6 thread

Part no.: M-5G2 (For M5 thread)
M-6G (For M6 thread)
Material: Stainless steel 304, NBR

Plug

KQ2P, KQP P. 29



Use to plug unused One-touch fittings. KQP (Blue) KQ2P (White)

K□

M□

H□

D□

MS

T□

VMG

Series KQ2

Male Connector: KQ2H

<M5, M6>

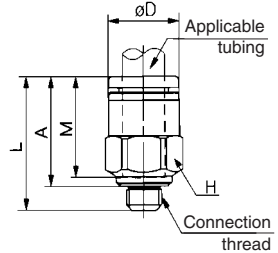


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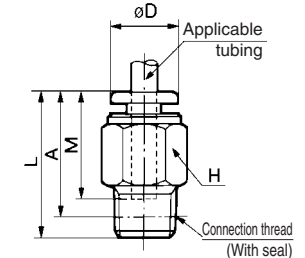


Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	⁽¹⁾ øD	L	A*	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
								Nylon	Urethane	
3.2	M5 x 0.8	KQ2H23-M5	7	7	16.7	13.6	12.7	3	2.5	2.1
	1/8	KQ2H23-01S	10	—	22	18	15.5	3.4	2.9	9
	1/4	KQ2H23-02S	14	—	19.5	13.5	15.5	3.4	2.9	16
4	M5 x 0.8	KQ2H04-M5	8	8	17	13.9	12.7	4	4	2.4
	M6 x 1.0	KQ2H04-M6	8	—	18	13.9	12.7	4	4	2.5
	1/8	KQ2H04-01S	10	—	22	18	16	5.6	4	9
6	1/4	KQ2H04-02S	14	—	19.5	13.5	16	5.6	4	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	—	19	14.9	13.5	4	4	3.4
8	1/8	KQ2H06-01S	12	—	22.5	18.5	17	13.1	10.4	16
	1/4	KQ2H06-02S	14	—	23	17	17	13.1	10.4	14
	3/8	KQ2H06-03S	17	—	22	15.5	17	13.1	10.4	27
10	1/8	KQ2H08-01S	14	—	28	24	18.5	26.1	18.0	21
	1/4	KQ2H08-02S	17	—	26.5	20.5	18.5	26.1	18.0	19
	3/8	KQ2H08-03S	17	—	22	15.5	18.5	26.1	18.0	26
12	1/8	KQ2H10-01S	17	—	30	26	21	26.1	26.1	19
	1/4	KQ2H10-02S	17	—	33.5	27.5	21	41.5	29.5	30
	3/8	KQ2H10-03S	17	—	29	22.5	21	41.5	29.5	30
16	1/2	KQ2H10-04S	22	—	27	19	21	41.5	29.5	53
	1/4	KQ2H12-02S	19	—	34.5	28.5	22	58.3	46.1	42
	3/8	KQ2H12-03S	19	—	23.5	22	22	58.3	46.1	34
	1/2	KQ2H12-04S	22	—	30	22	22	58.3	46.1	51
16	3/8	KQ2H16-03S	24	25.7	39.5	33	25	81	(81)	61
	1/2	KQ2H16-04S	24	25.7	35.5	27.5	25	113	(96)	47

<M5, M6>



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* 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>



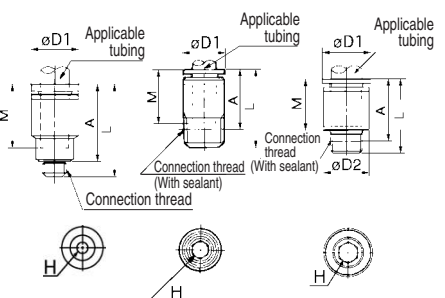
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Applicable tubing O.D. (mm)	Connection thread P	Model	H (width across flats)	⁽¹⁾ øD1	øD2	L	A*	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
									Nylon	Urethane	
4	M5 x 0.8	KQ2S04-M5	2.5	8	—	18.7	15.6	12.7	4	4	2.7
	M6 x 1.0	KQ2S04-M6	3	—	—	18.2	14.1	12.7	4	4	2.8
	1/8	KQ2S04-01S	3	9.8	—	23	19	16	4.1	3.6	8
6	M5 x 0.8	KQ2S06-M5	2.5	10	—	19.5	16.4	13.5	4	4	3.3
	M6 x 1.0	KQ2S06-M6	3	—	—	19.1	15	13.5	4	4	3.4
	1/8	KQ2S06-01S	4	11.8	—	24	20	17	10.0	9.9	9
8	1/4	KQ2S06-02S	4	13.8	—	24	18	17	10.7	10.0	15
	1/8	KQ2S08-01S	5	14	—	28	24	18.5	17.2	16.2	12
	1/4	KQ2S08-02S	6	17	—	25.5	19.5	18.5	17.2	16.2	11
10	3/8	KQ2S08-03S	6	17	—	27.5	21	18.5	23.3	16.2	24
	1/8	KQ2S10-01S	5	17	—	30	26	21	17.2	16.2	18
	1/4	KQ2S10-02S	8	19	—	27.5	21.5	21	39.0	26.6	12
12	3/8	KQ2S10-03S	8	19	—	27.5	21	21	39.0	26.6	19
	1/2	KQ2S10-04S	10	22	—	28	20	21	39.0	26.6	35
16	1/4	KQ2S12-02S	8	19	—	33.5	27.5	22	46.0	44.5	23
	3/8	KQ2S12-03S	10	22	—	29	22.5	22	60.0	44.5	18
	1/2	KQ2S12-04S	10	22	—	28	20	22	60.0	44.5	30
16	3/8	KQ2S16-03S	12	25.7	24	39	32.5	25	81	(81)	42
	1/2	KQ2S16-04S	12	25.7	24	35	27	25	113	(96)	34

<M5, M6> <R>

KQ2S04 to 12 KQ2S16



* Reference dimensions after R thread installation.

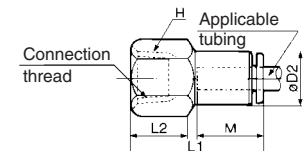
Note 1) øD: Max. diameter

Note 2) (): Values for soft nylon.

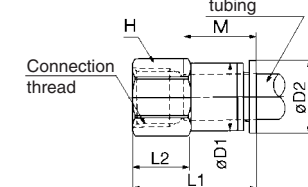
Female Connector: KQ2F

Applicable tubing O.D. (mm)	Connection thread Rc	Model	H (width across flats)	⁽¹⁾ øD1	øD2	L1	L2	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
									Nylon	Urethane	
4	1/8	KQ2F04-01	14	—	10	27	11	16	5.6	4	15
	1/4	KQ2F04-02	17	—	10	31	14	16	5.6	4	23
6	1/8	KQ2F06-01	14	—	12	27.5	11	17	13.1	10.4	15
	1/4	KQ2F06-02	17	—	12	31	13	17	13.1	10.4	22
	3/8	KQ2F06-03	19	—	12	33.5	15	17	13.1	10.4	25
8	1/8	KQ2F08-01	14	—	14	29	11	18.5	26.1	18.0	17
	1/4	KQ2F08-02	17	—	14	32.5	13	18.5	26.1	18.0	24
	3/8	KQ2F08-03	19	—	14	33.5	14	18.5	26.1	18.0	24
10	1/4	KQ2F10-02	17	—	17	34.5	14	21	41.5	29.5	27
	3/8	KQ2F10-03	19	—	17	36.5	15	21	41.5	29.5	30
12	1/4	KQ2F12-02	19	—	19	35	14	22	58.3	46.1	36
	3/8	KQ2F12-03	19	—	19	37	14	22	58.3	46.1	31
	1/2	KQ2F12-04	24	—	19	41	18	22	58.3	46.1	52
16	3/8	KQ2F16-03	24	24	25.7	38	15	25	81	(81)	59
	1/2	KQ2F16-04	24	24	25.7	43	19	25	113	(96)	58

KQ2F04 to 12



KQ2F16



Note 1) øD2: Max. diameter

Note 2) (): Values for soft nylon

Straight Union: KQ2H

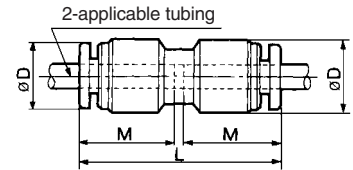


Applicable tubing O.D. (mm)	Model	øD ⁽¹⁾	L	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
					Nylon	Urethane	
3.2	KQ2H23-00	9.6	31.5	15.5	3.4	2.9	3
4	KQ2H04-00	10.4	32.5	16	5.6	4	3
6	KQ2H06-00	12.8	34.5	17	13.1	10.4	4
8	KQ2H08-00	15.2	38.5	18.5	26.1	18.0	6
10	KQ2H10-00	18.5	42.5	21	41.5	29.5	11
12	KQ2H12-00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



Note 1) øD: Max. diameter

Note 2) (): Values for soft nylon.



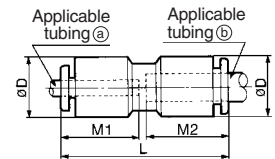
Different Diameter Straight: KQ2H



Applicable tubing O.D. (mm)		Model	Note) øD	L	M1	M2	Effective area ⁽²⁾ (mm ²)		Weight (g)
①	②						Nylon	Urethane	
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



Note) øD: Max. diameter



Male Elbow: KQ2L

<M5>



<M6>



<R>



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	(1) øD1	(1) øD2	L1	L2	A*	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M5 x 0.8	KQ2L23-M5	7	8.5	—	15.3	13.2	14.3	12.7	2.6	2.2	2.5
	1/8	KQ2L23-01S	10	9.6	10	17.5	21.5	22.5	15.5	3	2.5	8
	1/4	KQ2L23-02S	14	—	—	—	25.5	24.5	—	—	—	18
4	M5 x 0.8	KQ2L04-M5	7	—	—	15.6	13.7	15.3	12.7	3.5	3.5	2.7
	M6 x 1.0	KQ2L04-M6	8	—	—	—	14.7	—	—	—	—	3.6
	1/8	KQ2L04-01S	10	10.4	10	18	22	23	16	4.2	4.2	10
	1/4	KQ2L04-02S	14	—	—	—	26	25	—	—	—	19
6	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	—	—	—	15.7	—	—	—	—	4.1
	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
8	1/8	KQ2L08-01S	12	—	—	—	24.5	28	—	—	—	13
	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
10	1/8	KQ2L10-01S	—	—	—	—	27	32	—	21.6	14.9	25
	1/4	KQ2L10-02S	17	18.5	17	26.5	30	33	21	35.2	25.0	26
	3/8	KQ2L10-03S	—	—	—	—	32	34.5	—	—	—	36
	1/2	KQ2L10-04S	22	—	—	—	36	37	—	—	—	63
12	1/4	KQ2L12-02S	—	—	—	—	31	35.5	—	—	—	28
	3/8	KQ2L12-03S	17	20.9	17	28.5	33	37	22	50.2	39.7	38
	1/2	KQ2L12-04S	22	—	—	—	37	39.5	—	—	—	65
16	3/8	KQ2L16-03S	—	—	—	—	38	44.5	25	71	(71)	101
	1/2	KQ2L16-04S	22	26.5	20.9	34	41	46	—	100	(84)	105

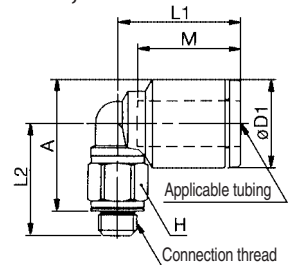


* Reference dimensions after R thread installation.

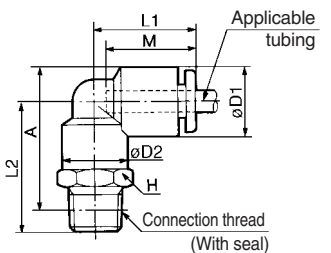
Note 1) øD1: Max. diameter

Note 2) (): Values for soft nylon.

<M5, M6>



<R>



Series KQ2

Male Branch Connector: KQ2LU

<M5, M6>



<R>

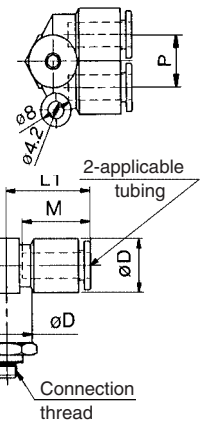


Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Note) øD	L1	L2	L3	A*	M	P	Effective area (mm²)		Weight (g)		
											Nylon	Urethane			
4	M5 x 0.8	KQ2LU04-M5	11	10.4	18.5	24	29.5	25.5	16	10.4	4.3	4.1	10		
	M6 x 1.0	KQ2LU04-M6				24.5	30								
	1/8	KQ2LU04-01S	14			26.5	32	27.5			6.0	4.1	12		
	1/4	KQ2LU04-02S				30.5	36	30					21		
6	M5 x 0.8	KQ2LU06-M5	13	12.8	21	26.5	33	29.5	17	12.8	4.3	4.3	13		
	M6 x 1.0	KQ2LU06-M6				27	33.5								
	1/8	KQ2LU06-01S	14			29.5	36	32			13.9	11.0	15		
	1/4	KQ2LU06-02S				33	39.5	33.5					22		
	3/8	KQ2LU06-03S	17			35	41.5	35					35		
8	1/8	KQ2LU08-01S	17	15.2	24	34	41.5	38	18.5	15.2	26.3	18.2	27		
	1/4	KQ2LU08-02S				37	44.5	38.5							
	3/8	KQ2LU08-03S				17							38	45.5	39
10	1/4	KQ2LU10-02S	19	18.5	27				40	49.5	43.5	21	18.5	40.8	29.0
	3/8	KQ2LU10-03S				41	50.5	44	42						
	1/2	KQ2LU10-04S				22	44.5	54	45.5	64					
12	1/4	KQ2LU12-02S	22	20.9	29	42.5	53	47	22	20.9	57.2	45.2	57		
	3/8	KQ2LU12-03S				43.5	54	47.5					58		
	1/2	KQ2LU12-04S				22							46.5	57	49

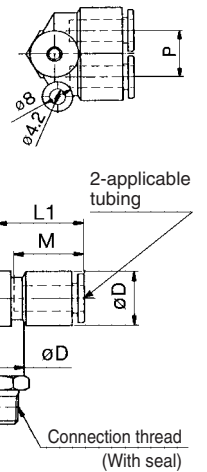


* Reference dimensions after R thread installation.
Note) øD: Max. diameter

<M5, M6>



<R>



45° Male Elbow: KQ2K

<M5, M6>



<R>

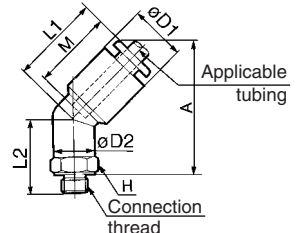


Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD1 ⁽¹⁾	øD2	L1	L2	A*	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
										Nylon	Urethane	
4	M5 x 0.8	KQ2K04-M5	8	10.4	8	17	14.5	26	1/8	3.4	3.4	4
	M6 x 1.0	KQ2K04-M6			15			5				
	1/8	KQ2K04-01S	10		20.5		32	10				
	1/4	KQ2K04-02S	14		24.5		34	19				
6	M5 x 0.8	KQ2K06-M5	8	12.8	8	18	14.5	27.5	17	3.4	3.4	6
	M6 x 1.0	KQ2K06-M6			18.5	15		5				
	1/8	KQ2K06-01S	10		20.5	33		12				
	1/4	KQ2K06-02S	14		24.5	35	8.7	6.9				10
	3/8	KQ2K06-03S	17		26.5	36.5		33				
	1/8	KQ2K08-01S	12		15.2	12	20.5	22		37	18.5	19.7
1/4	KQ2K08-02S	14	26	39				21				
3/8	KQ2K08-03S	17	28	41				35				
10	1/8	KQ2K10-01S	17	18.5	17	24	24	42	21	30.9	23.2	25
	1/4	KQ2K10-02S					27	43.5				26
	3/8	KQ2K10-03S					29	45				36
	1/2	KQ2K10-04S					33	47.5				63
	1/4	KQ2K12-02S	17				20.9	17				25
3/8	KQ2K12-03S	22	29.5	47.5	38							
1/2	KQ2K12-04S	22	33.5	49.5	65							
16	3/8	KQ2K16-03S	22	26.5	20.9	30	32	55	25	65.8	(65.8)	52
	1/2	KQ2K16-04S					35	56.5		91.9	(78.3)	58

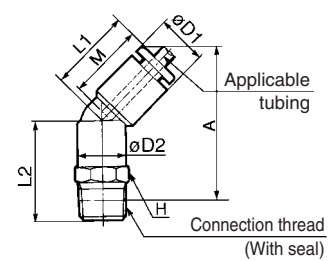


* Reference dimensions after R thread installation.
Note 1) øD: Max. diameter
Note 2) (): Values for soft nylon.

<M5, M6>



<R>



Universal Male Elbow: KQ2V

<M5>



<R>



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	(1) øD1	øD2	L1	L2	L3	A*	M	Effective area (mm ²)		Weight (g)
											Nylon	Urethane	
4	M5 x 0.8	KQ2V04-M5	8	10.4	9.8	20.5	11	18.5	15	16	2.9	2.9	6
	1/8	KQ2V04-01S			13.4	22	14.5	26.5	22.5		3.8	3.8	14
6	M5 x 0.8	KQ2V06-M5	8	12.8	9.8	23.5	12	18.5	15	17	3.8	3.8	7
	1/8	KQ2V06-01S			13.4	24	14.5	26.5	22.5		7.5	5.9	15
	1/4	KQ2V06-02S	10		15.4	23.5	18.5	31	25				26
8	1/8	KQ2V08-01S	12	15.2	17.6	28.5	15.5	28.5	24.5	18.5	16	11.2	24
	1/4	KQ2V08-02S			18.5	31.5	25.5	30			20.5	14.3	47
	3/8	KQ2V08-03S	14		20.6	27.5	20.5	36.5	30				
10	1/4	KQ2V10-02S	14	18.5	20.6	31	19.5	35.5	29.5	21	27	20.3	40
	3/8	KQ2V10-03S					20.5	36.5	30				49
12	3/8	KQ2V12-03S	17	20.9	25.2	34	22	38.5	32	22	39	30.8	63
	1/2	KQ2V12-04S					25	41.5	33.5				80
16	3/8	KQ2V16-03S	21	26.5	32.3	39	26.5	46.5	40.5	25	55	(55)	103
	1/2	KQ2V16-04S					29.5	49.5	41.5		78	(65)	110

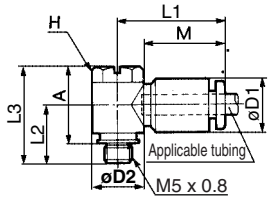


* Reference dimensions after R thread installation.

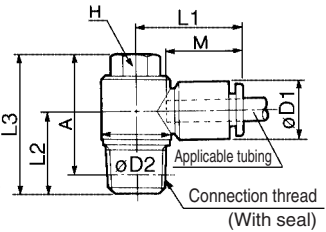
Note 1) øD: Max. diameter

Note 2) (): Values for soft nylon.

<M5>



<R>



Hexagon Socket Head Universal Male Elbow: KQ2VS

<M5>



<R>



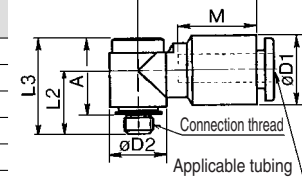
Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A*	M	Effective area (mm ²)		Weight (g)
											Nylon	Urethane	
4	M5	KQ2VS04-M5	4	10.4	9.8	20.5	10.5	18	15	16	2.9	2.9	6
	1/8	KQ2VS04-01S	6		13.4	22	14.5	26.5	22.5		3.8	3.8	14
6	M5	KQ2VS06-M5	4	12.8	9.8	23.5	12	18	15	17	3.8	3.8	7
	1/8	KQ2VS06-01S			13.4	24	14.5	26.5	22.5		7.5	5.9	15
	1/4	KQ2VS06-02S	6		15.3	23.5	18.5	27	21				22
8	1/8	KQ2VS08-01S	8	15.2	17.6	28.5	15.5	27	23	18.5	16	11.2	24
	1/4	KQ2VS08-02S			18.5	31	18.5	30	24		20.5	14.3	47
	3/8	KQ2VS08-03S			20.6	27.5	20.5	32.5	26				
10	1/4	KQ2VS10-02S	8	18.5	20.6	31	19.5	31.5	25	21	27	20.3	32
	3/8	KQ2VS10-03S					20.5	32.5	26				39
12	3/8	KQ2VS12-03S	10	20.9	25.2	34	22	36	30	22	39	30.8	48
	1/2	KQ2VS12-04S					25	39	31				67



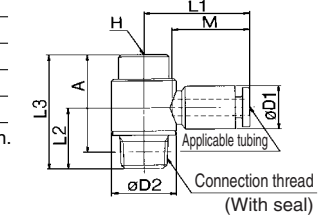
* Reference dimensions after R thread installation.

Note) øD: Max. diameter

<M5>



<R>



Series KQ2

Universal Female Elbow: KQ2VF

<M5>

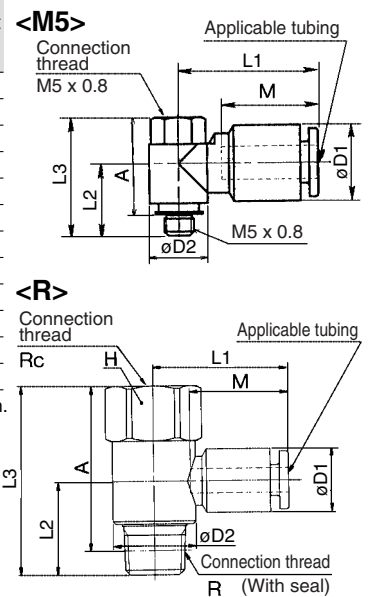


<R>



Applicable tubing O.D. (mm)	Connection thread Rc R	Model	H (width across flats)	Note) øD1	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
	1/8	KQ2VF04-01S	14		13.4	22	15.5	29.5	25.5		19
6	M5 x 0.8	KQ2VF06-M5	8	12.8	9.8	23.5	12.5	20	16	17	7
	1/8	KQ2VF06-01S	14		13.4	24.5	15.5	29.5	25.5		19
	1/4	KQ2VF06-02S	17		17.6	25	20	38.5	32.5		36
8	1/8	KQ2VF08-01S	17	15.2	17.6	28.5	17	31	27	18.5	29
	1/4	KQ2VF08-02S	17		20	38.5	32.5				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
	3/8	KQ2VF10-03S	22		25.2		24.5	45.5	39		68
12	3/8	KQ2VF12-03S	22	20.9	25.2	34	24.5	45.5	39	22	70
	1/2	KQ2VF12-04S	24		27	35	25.5	50	42		93

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



Female Elbow: KQ2LF

<M5, M6>

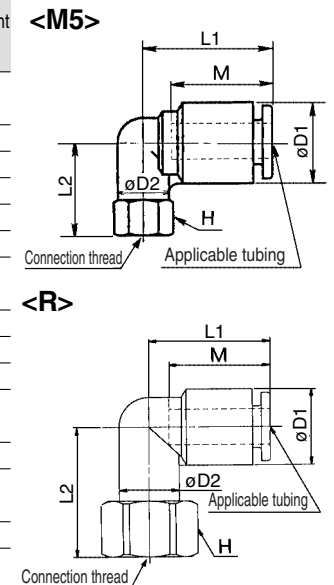


<Rc>



Applicable tubing O.D. (mm)	Connection thread Rc	Model	H (width across flats)	Note) øD1	øD2	L1	L2	M	Effective area (mm²)		Weight (g)
									Nylon	Urethane	
4	M5 x 0.8	KQ2LF04-M5	8	10.4	8	18.5	14.5	16	3.5	3.5	5
	M6 x 1.0	KQ2LF04-M6	14				15.5				
	1/8	KQ2LF04-01	14				21		4.2	4.2	13
	1/4	KQ2LF04-02	17		10		24.5				20
6	M5 x 0.8	KQ2LF06-M5	8	12.8	8	20.5	15	17	3.5	3.5	5
	M6 x 1.0	KQ2LF06-M6	14				16				6
	1/8	KQ2LF06-01	14				22		11.4	9.0	13
	1/4	KQ2LF06-02	17		10		25.5				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	46
	1/2	KQ2LF10-04	24				32.5				
	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	48
	1/2	KQ2LF12-04	24				34				

Note) øD1: Max. diameter

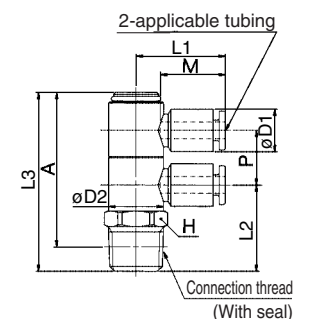


Double Universal Male Elbow: KQ2VD



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A*	M	P	Weight (g)
4	1/8	KQ2VD04-01S	14	10.4	13.4	22	18.5	41	37	16	13.4	23
	1/4	KQ2VD04-02S	17				21.5	44	38			29
	3/8	KQ2VD04-03S	17				23.5	46	40			42
6	1/8	KQ2VD06-01S	14	12.8	13.4	24.5	18.5	41	37	17	13.4	24
	1/4	KQ2VD06-02S	17				21.5	44	38			30
	3/8	KQ2VD06-03S	17				23.5	46	40			42
8	1/8	KQ2VD08-01S	19	15.2	17.6	28.5	21	48	44	18.5	15.9	53
	1/4	KQ2VD08-02S	19				24	51	45			51
	3/8	KQ2VD08-03S	19				25	52	45.5			60
	1/2	KQ2VD08-04S	21				28.5	55.5	47.5			82
10	1/4	KQ2VD10-02S	21	18.5	20.6	31.5	26.5	58	52	21	19.2	71
	3/8	KQ2VD10-03S	21				27.5	59	53			74
	1/2	KQ2VD10-04S	21				30.5	62	54			91
12	1/4	KQ2VD12-02S	26	20.9	25.2	34	28.5	64.5	58.5	22	21.6	118
	3/8	KQ2VD12-03S	26				29.5	65.5	59			113
	1/2	KQ2VD12-04S	26				32.5	68.5	60			125

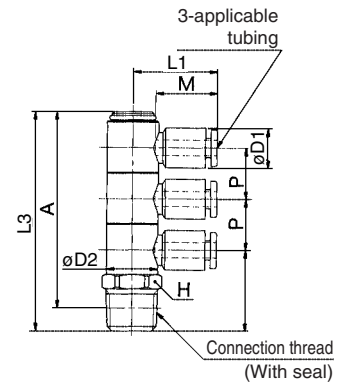
* Reference dimensions after R thread installation.
Note) øD1: Max. diameter



Triple Universal Male Elbow: KQ2VT



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



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

Branch Universal Male Elbow: KQ2Z

<M5>



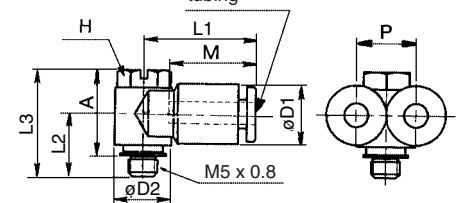
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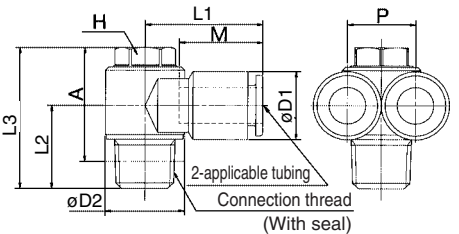
Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A*	M	P	Effective area (mm²)	Weight (g)
4	M5 x 0.8	KQ2Z04-M5	8	10.4	9.8	19.5	11	18.5	15	16	10.4	Nylon 3.4	8
	1/8	KQ2Z04-01S	8		13.4	21	14.5	26.5	22.5			Urethane 4.7	16
6	1/8	KQ2Z06-01S	8	12.8	13.4	22	14.5	26.5	22.5	17	12.8	10.8	17
	1/4	KQ2Z06-02S	14		20.6	25.5	19.5	35.5	29.5				39
	3/8	KQ2Z06-03S	14		20.6	25.5	20.5	36.5	30				47
8	1/8	KQ2Z08-01S	12	15.2	17.6	26	15.5	28.5	24.5	18.5	15.2	20.5	27
	1/4	KQ2Z08-02S	14		20.6	27	18.5	31.5	25.5				33
	3/8	KQ2Z08-03S	14		20.6	27	20.5	36.5	30				49
10	1/4	KQ2Z10-02S	14	18.5	20.6	29	19.5	35.5	29.5	21	18.5	31.8	46
	3/8	KQ2Z10-03S	14		20.6	29	20.5	36.5	30				54
12	3/8	KQ2Z12-03S	17	20.9	25.2	32.5	22	39	32.5	22	20.9	44.6	71
	1/2	KQ2Z12-04S	17		25.2	32.5	25	42	34				88

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

<M5>



<R>



Branch Universal Female Elbow: KQ2ZF

<M5>



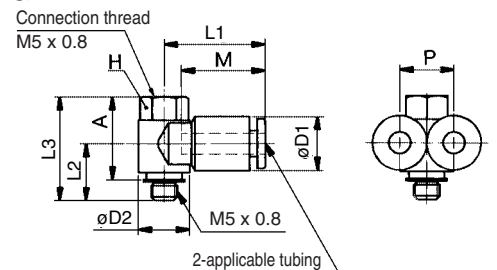
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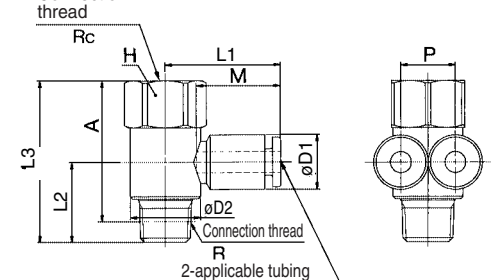
Applicable tubing O.D. (mm)	Connection thread R Rc	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A*	M	P	Weight (g)
4	M5 x 0.8	KQ2ZF04-M5	8	10.4	9.8	19.5	11	20	16.5	16	10.4	8
	1/8	KQ2ZF04-01S	14		13.4	21	15.5	29.5	25.5			21
6	1/8	KQ2ZF06-01S	14	12.8	13.4	22	15.5	29.5	25.5	17	12.8	21
	1/4	KQ2ZF06-02S	19		20.6	25.5	22	41	35			47
8	1/8	KQ2ZF08-01S	17	15.2	17.6	25.5	17	31	27	18.5	15.2	32
	1/4	KQ2ZF08-02S	19		20.6	27	22	41	35			49
10	1/4	KQ2ZF10-02S	19	18.5	20.6	29	22	41	35	21	18.5	54
	3/8	KQ2ZF10-03S	22		25.2	31.5	24.5	45.5	39			74
12	3/8	KQ2ZF12-03S	22	20.9	25.2	32.5	24.5	45.5	39	22	20.9	77
	1/2	KQ2ZF12-04S	24		27	33	25	50	42			101

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

<M5>



<R>

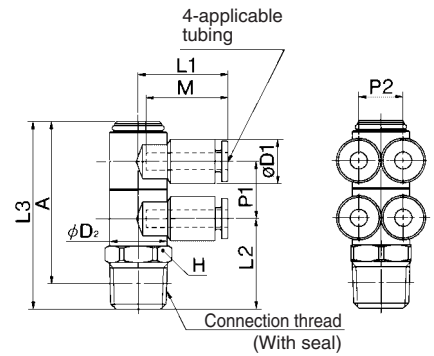


Series KQ2

Double Branch Universal Male Elbow: KQ2ZD



Applicable tubing O.D. (mm)	Connection threads R	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A*	M	P1	P2	Weight (g)
4	1/8	KQ2ZD04-01S	14	10.4	13.4	21	18.5	41	37	16	13.4	10.4	34
	1/4	KQ2ZD04-02S					21.5	44	38				40
	3/8	KQ2ZD04-03S	17				23.5	46	40				53
6	1/8	KQ2ZD06-01S	14	12.8	13.4	22	18.5	41	37	17	13.4	12.8	38
	1/4	KQ2ZD06-02S					21.5	44	38				43
	3/8	KQ2ZD06-03S	17				23.5	46	40				57
8	1/8	KQ2ZD08-01S	19	15.2	17.6	26	21	48	44	18.5	15.9	15.2	76
	1/4	KQ2ZD08-02S					24	51	45				72
	3/8	KQ2ZD08-03S					25	52	45.5				81
	1/2	KQ2ZD08-04S	21				28.5	55.5	47.5				102
10	1/4	KQ2ZD10-02S		18.5	20.6	29	26.5	58	52	21	19.2	18.5	111
	3/8	KQ2ZD10-03S	21				27.5	59	53				128
	1/2	KQ2ZD10-04S					30.5	62	54				178
12	1/4	KQ2ZD12-02S		20.9	25.2	32	28.5	64.5	58.5	22	21.6	20.9	167
	3/8	KQ2ZD12-03S	26				29.5	65.5	59				179
	1/2	KQ2ZD12-04S					32.5	68.5	60				

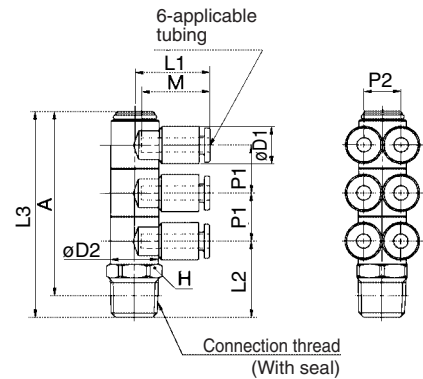


* Reference dimensions after R thread installation.
Note) øD1: Max. diameter

Triple Branch Universal Male Elbow: KQ2ZT



Applicable tubing O.D. (mm)	Connection threads R	Model	H (width across flats)	Note) øD1	øD2	L1	L2	L3	A*	M	P1	P2	Weight (g)
4	1/8	KQ2ZT04-01S	14	10.4	13.4	21	18.5	54.5	50.5	16	13.4	10.4	25
	1/4	KQ2ZT04-02S					21.5	57.5	51.5				31
	3/8	KQ2ZT04-03S	17				23.5	59.5	53.5				44
6	1/8	KQ2ZT06-01S	14	12.8	13.4	22	18.5	54.5	50.5	17	13.4	12.8	27
	1/4	KQ2ZT06-02S					21.5	57.5	51.5				33
	3/8	KQ2ZT06-03S	17				23.5	59.5	53.5				46
8	1/8	KQ2ZT08-01S	19	15.2	17.6	26	21	64	60	18.5	15.9	15.2	56
	1/4	KQ2ZT08-02S					24	67	61				54
	3/8	KQ2ZT08-03S					25	68	61.5				62
	1/2	KQ2ZT08-04S	21				28.5	71.5	63.5				85
10	1/4	KQ2ZT10-02S		18.5	20.6	29	26.5	77.5	71.5	21	19.2	18.5	83
	3/8	KQ2ZT10-03S	21				27.5	78.5	72				85
	1/2	KQ2ZT10-04S					30.5	81.5	73.5				102
12	1/4	KQ2ZT12-02S		20.9	25.2	32	28.5	86	80	22	21.6	20.9	134
	3/8	KQ2ZT12-03S	26				29.5	87	80.5				130
	1/2	KQ2ZT12-04S					32.5	90	82				141



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

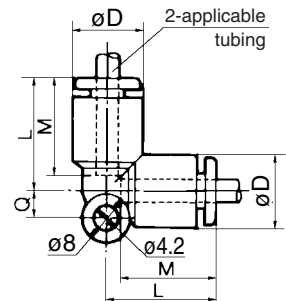
Union Elbow: KQ2L



Applicable tubing O.D. (mm)	Model	øD ⁽¹⁾	L	Q	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
						Nylon	Urethane	
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



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



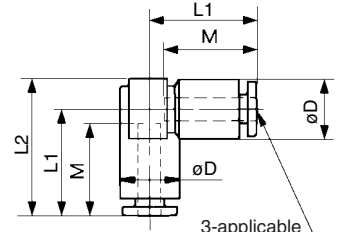
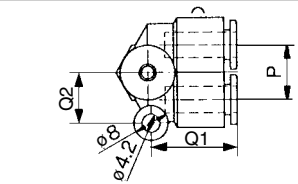
Branch Union Elbow: KQ2LU



Applicable tubing O.D. (mm)	Model	Note) ϕD	L1	L2	Q1	Q2	M	P	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
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) ϕD : Max. diameter



Plug-in Elbow: KQ2L

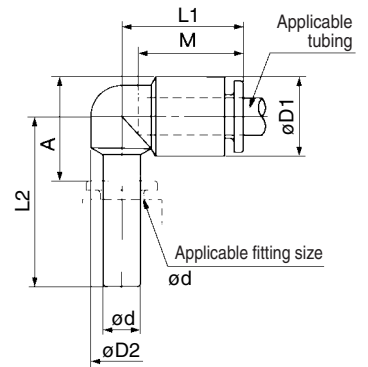


Applicable tubing O.D. (mm)	Applicable fitting size ϕd	Model	Note 1) $\phi D1$		L1	L2	A	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
			$\phi D1$	$\phi D2$					Nylon	Urethane	
3.2	3.2	KQ2L23-99	9.6	7	17	24.5	14	15.5	3	2.5	2
4	4	KQ2L04-99	10.4	8	18	25	14.5	16	4.2	4.2	3
6	6	KQ2L06-99	12.8	10	20	27.5	17	17	11.4	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) $\phi D1$: Max. diameter

Note 2) (): Values for soft nylon.



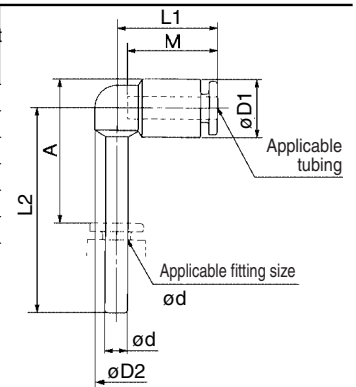
Extended Plug-in Elbow: KQ2W



Applicable tubing O.D. (mm)	Applicable fitting size ϕd	Model	Note) $\phi D1$		L1	L2	A	M	Effective area (mm ²)		Weight (g)
			$\phi D1$	$\phi D2$					Nylon	Urethane	
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) ϕD : Max. diameter



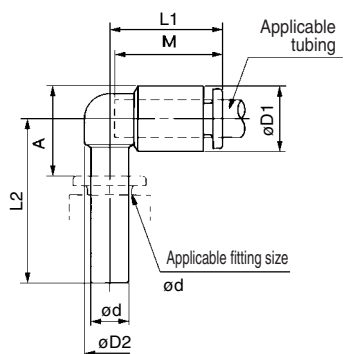
Reducer Elbow: KQ2L



Applicable tubing O.D. (mm)	Applicable fitting size ϕd	Model	Note) $\phi D1$		L1	L2	A	M	Effective area (mm ²)		Weight (g)
			$\phi D1$	$\phi D2$					Nylon	Urethane	
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
	8	KQ2L04-08		10		35	22				11
6	8	KQ2L06-08	12.8	10	19.5	30.5	18	17	11.4	9.0	12
	10	KQ2L06-10				38.5	24				19
8	10	KQ2L08-10	15.2	12	22.5	33.5	20.5	18.5	21.6	14.9	20
	12	KQ2L08-12				40.5	26				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



Note) $\phi D1$: Max. diameter



Series KQ2

Extended Male Elbow: KQ2W

<M5>



<R>



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ϕ D1 ⁽¹⁾	ϕ D2	L1	L2	A*	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M5 x 0.8	KQ2W23-M5	8	9.6	8	17.5	30	31	15.5	2.8	2.4	10
	1/8	KQ2W23-01S	10				37	38				19
	1/4	KQ2W23-02S	14				43	42				41
4	M5 x 0.8	KQ2W04-M5	8	10.4	8	18	30	32	16	3.0	3.0	11
	1/8	KQ2W04-01S	10				37.5	38.5				23
	1/4	KQ2W04-02S	14				43.5	42.5				38
6	M5 x 0.8	KQ2W06-M5	8	12.8	8	20	30.5	33.5	17	3	3	11
	1/8	KQ2W06-01S	10				40	42.5				26
	1/4	KQ2W06-02S	14				46	46.5				41
	3/8	KQ2W06-03S	17				48	48				67
8	1/8	KQ2W08-01S	12	15.2	12	23	43.5	47	18.5	20.5	14.2	30
	1/4	KQ2W08-02S	14				49.5	51				47
	3/8	KQ2W08-03S	17				51.5	52.5				74
10	1/4	KQ2W10-02S	17	18.5	17	26.5	56.5	59.5	21	33.5	23.8	66
	3/8	KQ2W10-03S	17				58.5	61				76
	1/2	KQ2W10-04S	22				65	66				145
12	1/4	KQ2W12-02S	17	20.9	17	28.5	57.5	62	22	47.7	37.7	68
	3/8	KQ2W12-03S	17				59.5	63.5				78
	1/2	KQ2W12-04S	22				66	68.5				147
16	3/8	KQ2W16-03S	22	26.5	20.9	34	69.5	76	25	71	(71)	101
	1/2	KQ2W16-04S	22				75	80		100	(84)	105

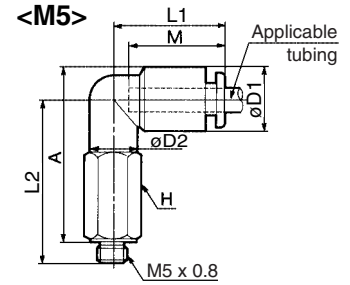


* Reference dimensions after R thread installation.

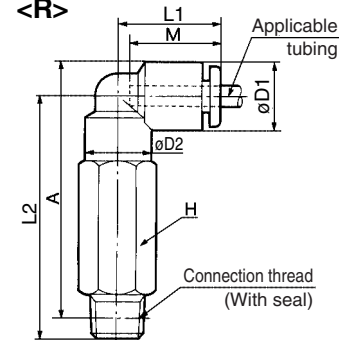
Note 1) øD: Max. diameter

Note 2) (): Values for soft nylon

<M5>



<R>



Male Branch Tee: KQ2T

<M5>



<M6>



<R>



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD1 ⁽¹⁾	øD2	L1	L2	A*	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M5 x 0.8	KQ2T23-M5	7	9.6	10	17.5	13.2	14.3	12.7	3.2	2.7	3.2
	1/8	KQ2T23-01S	10				21.5	22.5				10
	1/4	KQ2T23-02S	14				25.5	24.5				20
4	M5 x 0.8	KQ2T04-M5	7	10.4	10	18	13.7	15.3	16	4.5	4.1	3.5
	M6 x 1.0	KQ2T04-M6	8				14.7	15.3				4.4
	1/8	KQ2T04-01S	10				22	23				13
6	1/4	KQ2T04-02S	14	11.6	10	20	26	25	17	6.0	4.1	19
	M5 x 0.8	KQ2T06-M5	7				14.7	17.4				4.4
	M6 x 1.0	KQ2T06-M6	8				15.7	15.7				5.3
8	1/8	KQ2T06-01S	10	12.8	10	23	23	25.5	18.5	13.9	11.0	12
	1/4	KQ2T06-02S	14				27	27.5				20
	3/8	KQ2T06-03S	17				29	29				34
10	1/8	KQ2T08-01S	12	15.2	12	23	24.5	28	21	26.3	18.2	14
	1/4	KQ2T08-02S	14				28.5	30				22
	3/8	KQ2T08-03S	17				30.5	31.5				36
12	1/8	KQ2T10-01S	17	18.5	17	26.5	27	32	25	40.8	29.0	31
	1/4	KQ2T10-02S	17				30	33				29
	3/8	KQ2T10-03S	17				32	34.5				39
16	1/2	KQ2T10-04S	22	20.9	17	28.5	36	37	22	57.2	45.2	66
	1/4	KQ2T12-02S	17				31	35.5				31
	3/8	KQ2T12-03S	17				33	37				41
16	1/2	KQ2T12-04S	22	26.5	20.9	34	37	39.5	25	71	(71)	68
	3/8	KQ2T16-03S	22				38	44.5				112
	1/2	KQ2T16-04S	22				40.5	46				116

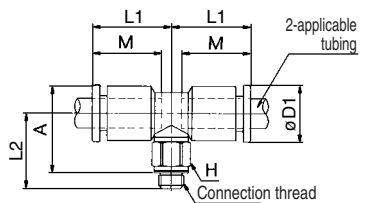


* Reference dimensions after R thread installation.

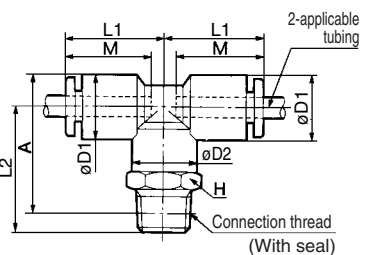
Note 1) øD1: Max. diameter

Note 2) (): Values for soft nylon.

<M5, M6>



<R>

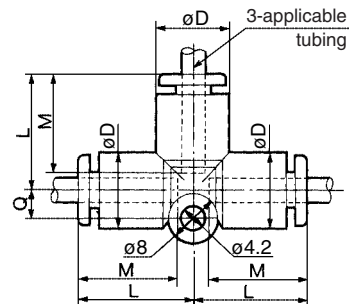


Union Tee: KQ2T



Applicable tubing O.D. (mm)	Model	øD ⁽¹⁾	L	Q	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
						Nylon	Urethane	
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

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

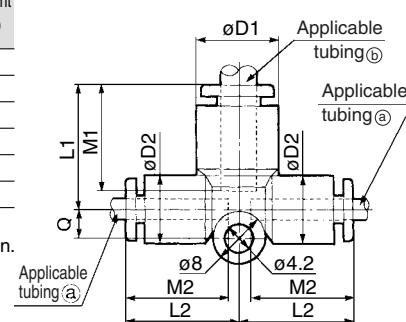


Different Diameter Tee: KQ2T



Applicable tubing O.D. (mm)		Model	øD ⁽¹⁾	øD2	L1	L2	Q	M1	M2	Effective area ⁽²⁾ (mm ²)		Weight (g)
①	②									Nylon	Urethane	
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.

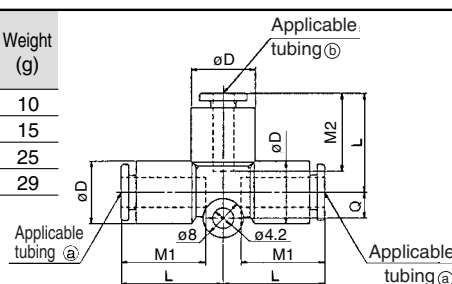


Different Diameter Tee: KQ2T



Applicable tubing O.D. (mm)		Model	Note) øD	L	Q	M1	M2	Effective area (mm ²)		Weight (g)
①	②							Nylon	Urethane	
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

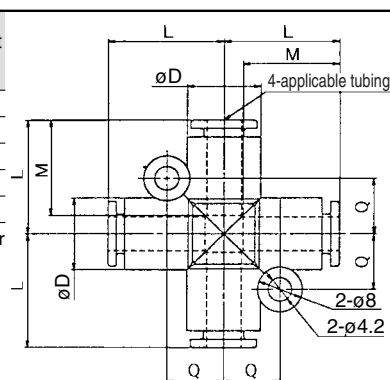


Cross: KQ2TW



Applicable tubing O.D. (mm)	Model	Note) øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Nylon	Urethane	
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

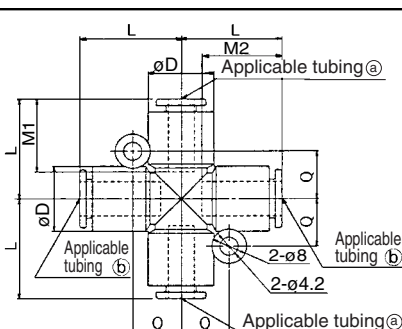


Different Diameter Cross: KQ2TX



Applicable tubing O.D. (mm)		Model	Note) øD	L	Q	M1	M2	Effective area (mm ²)		Weight (g)
①	②							Nylon	Urethane	
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



Series KQ2

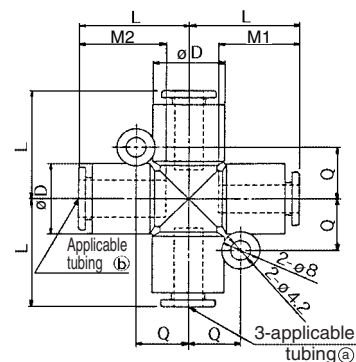
Different Diameter Cross: KQ2TY



Applicable tubing O.D. (mm)		Model	Note) øD	L	Q	M1	M2	Effective area (mm ²)		Weight (g)
①	②							Nylon	Urethane	
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

<M5>



<M6>



<R>



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD ⁽¹⁾	øD2	L1	L2	L3	A*	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
											Nylon	Urethane	
3.2	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
	1/8	KQ2Y23-01S	10	9.6	10	17.5	21.5	—	35	15.5	3.4	2.9	10
	1/4	KQ2Y23-02S	14	9.6	10	17.5	25.5	—	37	15.5	3.4	2.9	20
4	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
	M6 x 1.0	KQ2Y04-M6	8	9.3	—	15.6	14.7	—	—	—	—	—	6
	1/8	KQ2Y04-01S	10	10.4	10	18	22	—	36	16	6.4	4.4	13
	1/4	KQ2Y04-02S	14	10.4	10	18	26	—	38	16	6.4	4.4	19
6	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	11.6	—	17.1	15.7	—	—	—	—	—	7
	1/8	KQ2Y06-01S	10	12.8	10	20	23	—	39	17	13.4	10.6	12
	1/4	KQ2Y06-02S	14	12.8	10	20	27	—	41	17	13.4	10.6	20
	3/8	KQ2Y06-03S	17	12.8	10	20	29	—	42.5	17	13.4	10.6	34
8	1/8	KQ2Y08-01S	12	15.2	12	23	24.5	—	43.5	18.5	25.6	17.7	14
	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	15.2	12	23	30.5	—	47	18.5	25.6	17.7	36
	1/2	KQ2Y10-01S	22	18.5	17	26.5	30	—	49.5	21	40.0	28.4	31
10	1/4	KQ2Y10-02S	17	18.5	17	26.5	32	—	50.5	21	40.0	28.4	29
	3/8	KQ2Y10-03S	17	18.5	17	26.5	36	—	52	21	40.0	28.4	39
	1/2	KQ2Y10-04S	22	18.5	17	26.5	36	—	54.5	21	40.0	28.4	66
12	1/4	KQ2Y12-02S	17	20.9	17	28.5	31	—	53.5	22	57.4	45.4	31
	3/8	KQ2Y12-03S	17	20.9	17	28.5	33	—	55	22	57.4	45.4	41
	1/2	KQ2Y12-04S	22	20.9	17	28.5	37	—	57.5	22	57.4	45.4	68
16	3/8	KQ2Y16-03S	22	26.5	20.9	34	38	—	65.5	25	81	(81)	112
	1/2	KQ2Y16-04S	22	26.5	20.9	34	41	—	67	25	113	(113)	116

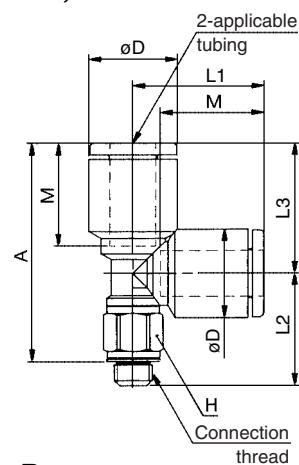


* Reference dimensions after R thread installation.

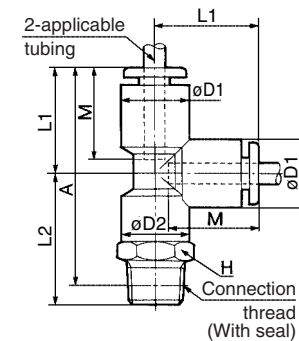
Note 1) øD: Max. diameter

Note 2) (): Values for soft nylon

<M5, M6>



<R>



Male Delta Union: KQ2D

<M5, M6>



<R>

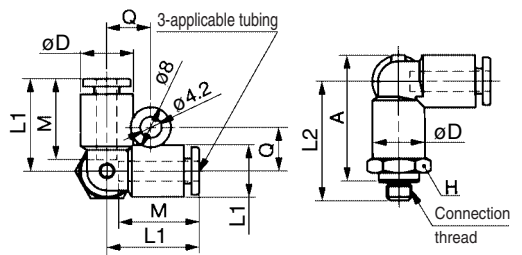


Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Note) øD	L1	L2	A*	M	Q	Effective area (mm²)		Weight (g)		
										Nylon	Urethane			
4	M5 x 0.8	KQ2D04-M5	11	10.4	18.5	24	25.5	16	8.7	2.2	2.2	10		
	M6 x 1.0	KQ2D04-M6				24.5	27.5			4.3	4.3			
	1/8	KQ2D04-01S	14			26.5	27.5			6.0	6.0	12		
	1/4	KQ2D04-02S				30.5	29.5					21		
6	M5 x 0.8	KQ2D06-M5	13	12.8	20.5	26	28.5	17	9.9	4.3	4.3	12		
	M6 x 1.0	KQ2D06-M6				26.5	31.5							
	1/8	KQ2D06-01S	14			32.5	33			13.9	11.0	21		
	1/4	KQ2D06-02S				34.5	34.5					34		
8	1/8	KQ2D08-01S	17	15.2	23.5	33.5	37	18.5	11.1	26.3	18.2	26		
	1/4	KQ2D08-02S				36.5	38							
	3/8	KQ2D08-03S	19			37.5	38.5					35		
	1/4	KQ2D10-02S				39.5	43					39		
10	3/8	KQ2D10-03S	22	18.5	26.5	40.5	43.5	21	12.8	40.8	29.0	40		
	1/2	KQ2D10-04S				44	45					62		
	1/4	KQ2D12-02S	22			42	46.5					55		
3/8	KQ2D12-03S	43				47	13.9			57.2	56			
12	1/2	KQ2D12-04S				46	48.5							63

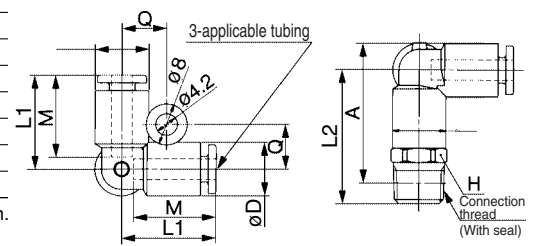


* Reference dimensions after R thread installation.
Note) øD: Max. diameter

<M5, M6>



<R>



K□

M□

H□

D□

MS

T□

VMG

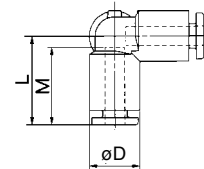
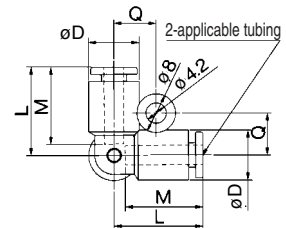
Delta Union: KQ2D



Applicable tubing O.D. (mm)	Model	Note) øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Nylon	Urethane	
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



Note) øD: Max. diameter



Branch "Y": KQ2U

<M5, M6>



<R>



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

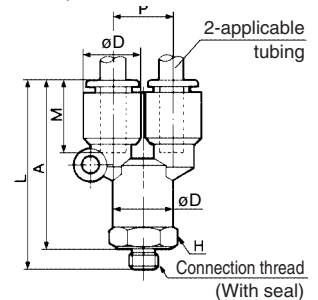


* Reference dimensions after R thread installation.

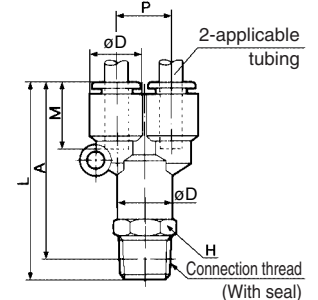
Note 1) øD1: Max. diameter

Note 2) (): Values for soft nylon

<M5, M6>



<R>



Series KQ2

Delta Branch: KQ2UD

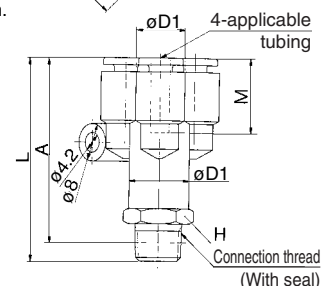
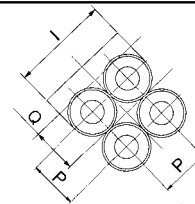


Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	(Note) øD1	(Note) øD2	L	I	A*	Q	M	P	Effective area (mm ²)		Weight (g)
												Nylon	Urethane	
4	1/8	KQ2UD04-01S	13	10.4	12.8	43.5	21	39.5	9.7	16	10.4	4.2	4.2	17
	1/4	KQ2UD04-02S	14			47		41				4.2	4.2	25
6	1/8	KQ2UD06-01S	17	12.8	15.2	50.5	26	46.5	11.7	17	12.8	13.4	10.6	29
	1/4	KQ2UD06-02S				53.5		47.5						



* Reference dimensions after R thread installation.

Note) øD1: Max. diameter



Union "Y": KQ2U

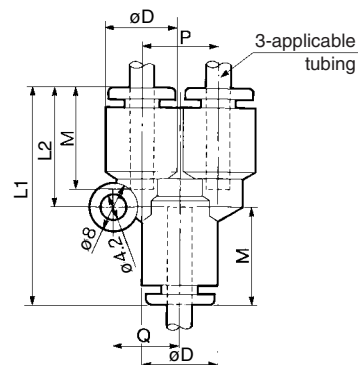


Applicable tubing O.D. (mm)	Model	(1) øD	L1	L2	P	Q	M	Effective area (mm ²) (2)		Weight (g)
								Nylon	Urethane	
3.2	KQ2U23-00	9.6	33	17.5	9.6	9	15.5	3.4	2.9	5
4	KQ2U04-00	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	KQ2U06-00	12.8	37	20	12.8	11.7	17	13.4	10.6	9
8	KQ2U08-00	15.2	42.5	24.5	15.2	13.7	18.5	25.6	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.



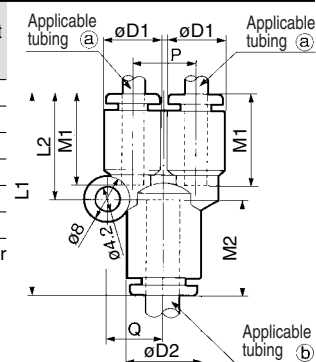
Different Diameter Union "Y": KQ2U



Applicable tubing O.D. (mm)		Model	(Note) øD1	(Note) øD2	L1	L2	P	Q	M1	M2	Effective area (mm ²)		Weight (g)
(a)	(b)										Nylon	Urethane	
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



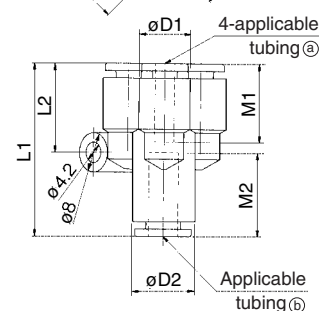
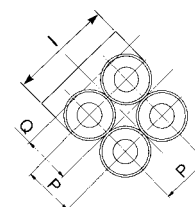
Different Diameter Double Union "Y": KQ2UD



Applicable tubing O.D. (mm)		Model	(Note) øD1	(Note) øD2	L1	L2	P	I	Q	M1	M2	Effective area (mm ²)		Weight (g)
(a)	(b)											Nylon	Urethane	
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

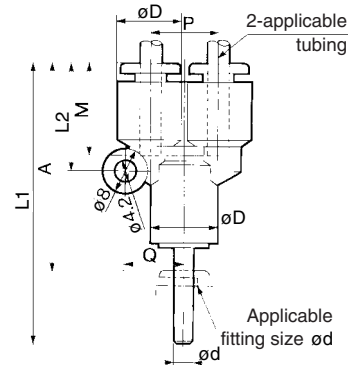


Applicable tubing O.D. (mm)	Application fitting ϕd	Model	(1)		L1	L2	P	Q	A	M	Effective area (mm ²) (2)		Weight (g)
			ϕD								Nylon	Urethane	
3.2	3.2	KQ2U23-99	9.6		50	17.5	9.6	9	35	15.5	3.4	2.9	6
4	4	KQ2U04-99	10.4		51.5	18	10.4	9.7	35.5	16	4.2	4.2	12
6	6	KQ2U06-99	12.8		55.5	20	12.8	11.7	38.5	17	13.4	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



Note 1) ϕD : Max. diameter

Note 2) (): Values for soft nylon.



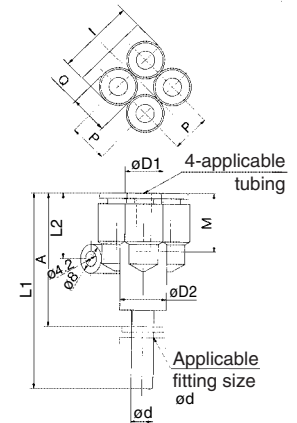
Double Plug-in "Y": KQ2XD



Applicable tubing O.D. (mm)	Application fitting Fitting size ϕd	Model	Note)		L1	L2	I	Q	A	P	M	Effective area (mm ²)		Weight (g)
			$\phi D1$	$\phi D2$								Nylon	Urethane	
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) $\phi D1$: Max. diameter



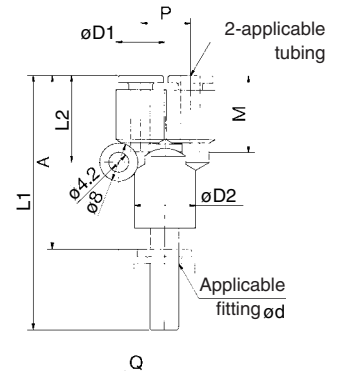
Different Diameter Plug-in "Y": KQ2X



Applicable tubing O.D. (mm)	Application fitting Fitting size ϕd	Model	Note)		L1	L2	A	P	Q	M	Effective area (mm ²)		Weight (g)
			$\phi D1$	$\phi D2$							Nylon	Urethane	
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) $\phi D1$: Max. diameter



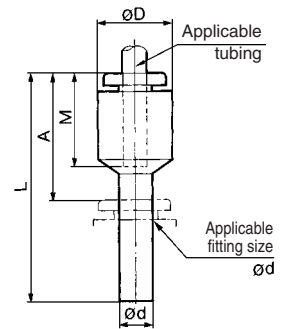
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- M ☐
- H ☐
- D ☐
- MS ☐
- T ☐
- VMG ☐

Series KQ2

Plug-in Reducer: KQ2R



Applicable tubing O.D. (mm)	Applicable fitting size ϕd	Model	$\phi D^{(1)}$	L	A	M	Effective area ⁽²⁾ (mm ²)		Weight (g)
							Nylon	Urethane	
3.2	4	KQ2R23-04	9.6	33.5	18.5	15.5	3.4	2.9	2
4	6	KQ2R04-06	10.4	34.5	17.5	16	5.6	4	1.8
	8	KQ2R04-08		36.5	18				2.0
	10	KQ2R04-10	12.8	39.5	18.5				3.3
6	4	KQ2R06-04	12.8	37	21	17	4	4	2.5
	8	KQ2R06-08	12.8	37	18.5		13.1	10.4	2.5
	10	KQ2R06-10		39.5	18.5				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
	12	KQ2R08-12		42					4.6
10	12	KQ2R10-12	18.5	44.5	23	21	41.5	32.8	33
	16	KQ2R10-16	20.9	50.5	25.5			(29.5)	42
12	16	KQ2R12-16	20.9	50.5	25.5	22	58.3	(46.1)	37



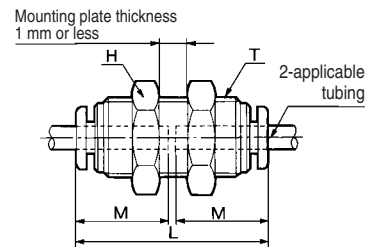
Note 1) ϕD : Max. diameter

Note 2) (): Values for soft nylon.

Bulkhead Union: KQ2E



Applicable tubing O.D. (mm)	Model	T (M)	H (width across flats)	L	Mounting hole	M	Effective area ^{Note)} (mm ²)		Weight (g)
							Nylon	Urethane	
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

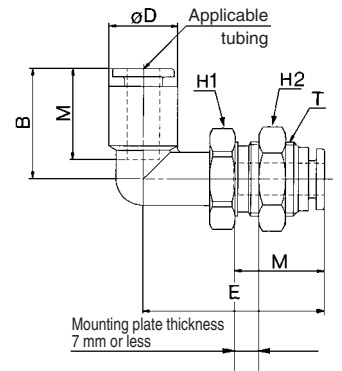


Note) (): Values for soft nylon.

Bulkhead Male Elbow: KQ2LE



Applicable tubing O.D. (mm)	Model	T	H1 (Hex. across flats)	H2 (Hex. across flats)	B	E	Note) øD	Mounting hole	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
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

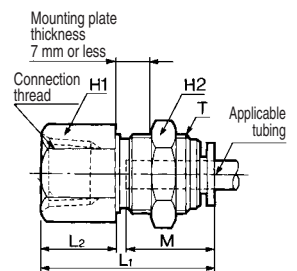


Note) ϕD : Max. diameter

Bulkhead Connector: KQ2E



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

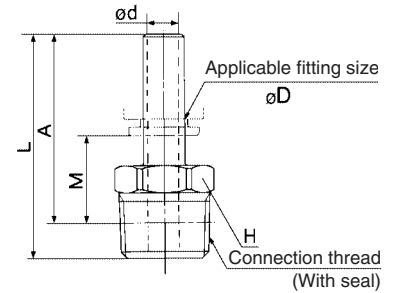


Note) (): Values for soft nylon.

Adaptor: KQ2N



Applicable fitting size ϕD	Connection thread R	Model	H (width across flats)	L	A*	M	ϕd	Weight (g)
4	M5 x 0.8	KQ2N04-M5	7	32	29	13	2.5	2
	1/8	KQ2N04-01S	10	34	30	14		6
6	M5 x 0.8	KQ2N06-M5	7	33	30	13	2.5	2
	1/8	KQ2N06-01S	10	35	31	14		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		30
10	3/8	KQ2N10-03S	17	46	39.5	18.5	7.5	31

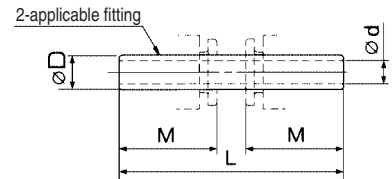


Nipple: KQ2N

* Reference dimensions after R thread is screwed in.



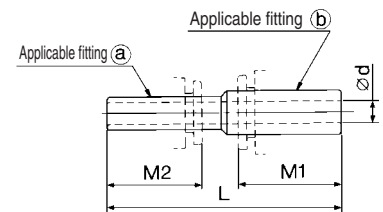
Applicable fitting ϕD	Model	L	M	ϕd	Weight (g)
4	KQ2N04-99	37	16	2.5	1
6	KQ2N06-99	39	17	4	2
8	KQ2N08-99	43	18.5	6	2
10	KQ2N10-99	49	21	7.5	4
12	KQ2N12-99	52	22	9	20.6
16	KQ2N16-99	57	25	13	31



Reducer Nipple: KQ2N



Applicable fitting		Model	L	M1	M2	ϕd	Weight (g)
(a)	(b)						
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

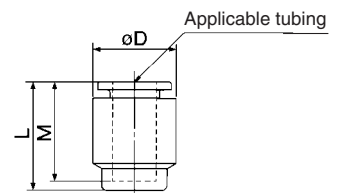


Tube Cap: KQ2C

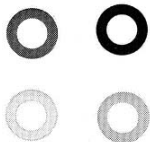


Applicable tubing O.D. (mm)	Model	Note) ϕD	L	M	Weight (g)
4	KQ2C04-00	10.4	17	16	3
6	KQ2C06-00	12.8	18.5	17	3
8	KQ2C08-00	15.2	20.5	18.5	4
10	KQ2C10-00	18.5	23	21	6
12	KQ2C12-00	20.9	24	22	8
16	KQ2C16-00	26.5	28	25	13

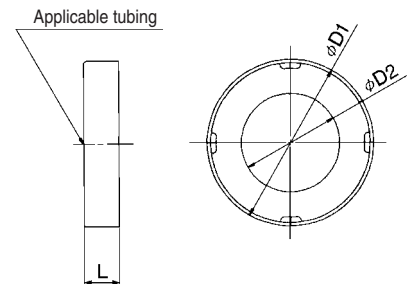
Note) ϕD : Max. diameter



Color Cap: KQ2C



Applicable tubing O.D. (mm)	Model	$\phi D1$	$\phi D2$	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	



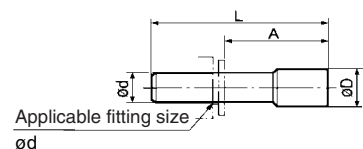
□ → B (Black), R (Red), YR (Orange), BR (Brown), Y (Yellow), G (Green), CB (Sky blue), GR (Gray), W (White), BU (Blue)

Plug: KQ2P, KQP



Applicable fitting size ϕd	Model (Note)		ϕD	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)



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	POM
Seal, O-ring	NBR

* Every one of Stainless steel 303, Stainless steel 304 and
Stainless steel 316 is possible to use.

How to Order Please consult with SMC.

