

One-touch Fittings

Applicable Tube – Metric Size Connection Thread – M, R(PT), Rc(PT)

Series KQ2

How to Order

KQ 2 H 06 01 S

One-touch Fitting

Color

Symbol	Body	Release button
2	White	Light gray
—	Black	Blue

Applicable tube O.D.

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

Port size/Applicable tube O.D.

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

With sealant

Symbol	Without sealant
—	Without sealant
S	Sealant

Note) Port size of with sealant style: Only R(PT)1/8 R(PT)1/4 R(PT)3/8 R(PT)1/2

Model

Symbol	Model	Symbol	Model
H	Male connector	T	Male branch tee
	Straight union		Union tee
	Different dia. straight		Different dia. tee*
S	Hexagon socket head male connector	TW	Cross*
F	Female connector	TX	Different dia. cross*
	Male elbow	TY	Different dia. cross*
	Union elbow	Y	Male run tee
	Plug-in elbow		Male delta
	Reducer elbow	D	Delta union
LU	Male branch connector		Branch "Y"
	Branch union elbow	U	Union "Y"
K	45° male elbow		Different dia. union "Y"
V	Universal male elbow		Plug-in "Y"
VS	Hex. 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 dia. plug-in "Y"
VT	Triple universal male elbow	R	Plug-in reducer
Z	Branch universal male elbow	E	Bulkhead union
ZF	Branch universal female elbow		Bulkhead connector
ZD	Double branch universal male elbow	LE	Bulkhead male elbow
ZT	Triple branch universal male elbow		
W	Extended plug-in elbow		
	Extended male elbow		

Accessory

Symbol	Name
—	Nipple
KQ2N	Different dia. nipple
	Adapter
KQ2C	Tube cap
KQ2C	Color cap
KQ2P	Plug (White)
KQP	Plug (Blue)

* Applicable to KQ2 (white body) only.

Note) KQT06-04, KQT08-06, KQT10-08, and KQT12-10 are available as made to order.

Series KQ2: White body
Series KQ : Black body

Guide

Collet

Chuck

Accepts nylon, and urethane tubes.
Has large retaining force.

Packing

Can be used for a wide range of pressures from a low vacuum up to a pressure of 1.0MPa

The use of a special profile ensures sealing and reduces resistance when the tube is inserted.

Thread

M, R(PT), Rc(PT)

Release button

Series KQ2: Light gray

Series KQ : Blue

Small disconnecting force.

When the fitting is removed from the tubing, the chuck and collet are released, thus preventing them from biting into the tube excessively.

Tube

Body

O ring

Stud

Effective when piping in a confined space.

The body and threaded portion can turn independently.

PAT.

One-touch IN/OUT connection.

Possible to use in vacuum to -100KPa.

●Applications for metric size tube

●Applicable tube material

Nylon, soft nylon, polyurethane



Applicable Tubing

Tube material	Nylon, Soft nylon, Polyurethane
Tube O. D.	Ø3.2, Ø4, Ø6, Ø8, Ø10, Ø12, Ø16

Colour

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

Specifications

Operating fluid		Air, Water (1)
Max. operating pressure		1.0MPa
Operating vacuum pressure		-100kPa
Proof pressure		3.0MPa
Ambient and fluid temperature		-5 to 60°C (Water: 0 to 40°C)
Thread	Thread portion	JIS B0203 (Taper pipe thread) JIS B0209 Class 2 (Metric coarse thread)
	Nut	JIS B0211 Class 2 (Metric fine thread)
Sealant (Thread portion)		With sealant or none



Note1) Applicable for general industry water.
Consult SMC if using for other fluids.
Surge pressure must be under the max. operating pressure.

Component Materials

Body	C3604BD, PBT, PP
Stud	C3604BD (Thread portion)
Chuck	Stainless steel (SUS304)
Guide	SUS304, C3604BD, Polyacetal (POM)
Collet, Release button	Polyacetal (POM)
Packing, O ring	NBR
Gasket	SUS304, NBR

K□

M□

H□

D□

MS

T□

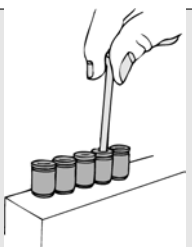
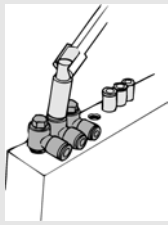
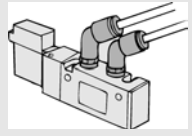
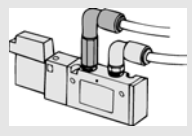
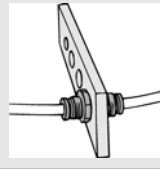
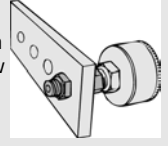
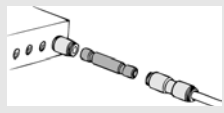
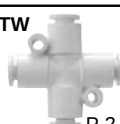
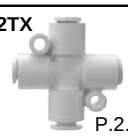
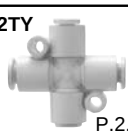
LQ

Clean Room



P.2.1-29

Series KQ2

Model		
Hex. socket head male connector KQ2S P.2.1-13		Internal hex. allows thread connection by using an Allen wrench for confined spaces. 
Universal male elbow KQ2V P.2.1-16		Universal male elbow allows thread connection by using a socket wrench for confined spaces. 
45° male elbow KQ2K P.2.1-15		Used in applications where a 45° elbow or male connector stresses the tubing. 
Extended male elbow KQ2W P.2.1-21		For when the elbow extends over a standard elbow for easier of connection/disconnection of tubing. 
Bulkhead union KQ2E P.2.1-27		Used for junction connection of two tubes for installation of a panel. 
Bulkhead connector KQ2E P.2.1-27		Used for transit connection of a tube and a male screw for installation of a panel. 
Nipple KQ2N P.2.1-28		Used for connection of two One-touch fittings. 
Reducer nipple KQ2N P.2.1-28		Used for connection of two One-touch fittings that are different tube O.D.s. 
Male connector KQ2H P.2.1-13		Used to pipe in the same direction from female threaded portion. Most common style.
Male elbow KQ2L P.2.1-14		Used to pipe in right angle to female threaded portion. Most common style.
Male branch tee KQ2T P.2.1-21		Used to branch line from female thread in both 90° directions.
Female connector KQ2F P.2.1-13		Used to pipe from the male threaded portion such as pressure gauge.
Union elbow KQ2L P.2.1-19		Used to connect tubes at right angles.
Union tee KQ2T P.2.1-22		Used to connect tubes in both 90° directions.
Straight union KQ2H P.2.1-14		Used to connect tubes in the same direction.
Plug-in elbow KQ2L P.2.1-20		Used to change by 90° in a tube fetching direction from One-touch fittings.
Different dia. tee KQ2T P.2.1-22		Used to connect tubes with size down in both 90° directions.
Different dia. straight KQ2H P.2.1-14		Used to connect different size tubes.
Reducer elbow KQ2L P.2.1-20		Used to change by 90° in tube fetching direction from One-touch fittings and to size down.
Different dia. tee KQ2T P.2.1-22		Used to branch from in the same direction from thread and in 90° directions.
Cross KQ2TW P.2.1-22		Used for four branch connections of tubes.
Different dia. cross KQ2TX P.2.1-22		Used to connect tubes with size down in all 90° directions.
Different dia. cross KQ2TY P.2.1-23		Used to branch connection of tubes with size down in three directions.

Hex. socket head universal male elbow

KQ2VS P.2.1-16



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

Male branch connector

KQ2LU P.2.1-15



Used for connection at right angles from the female thread.

Universal female elbow

KQ2VF P.2.1-17



Used for the same direction or at right angles from the male or female thread. Multiplex connections possible.

Female elbow

KQ2LF P.2.1-17



Used to pipe the tube at right angles from the male elbow.

Double universal male elbow

KQ2VD P.2.1-17



Used for branch piping at right angles from the female thread. Two individual parts rotate 360°.

Triple universal male elbow

KQ2VT P.2.1-18



Used for branch piping at right angles from the female thread. Three individual parts rotate 360°.

Branch universal male elbow

KQ2ZZ P.2.1-18



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

Branch universal female elbow

KQ2ZF P.2.1-18



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

Double branch universal male elbow

KQ2ZD P.2.1-19



Used for four branch connections at right angles from the female thread. Two individual parts rotate 360°.

Male run tee

KQ2Y P.2.1-23



Used for a branch line in the same direction from female thread and in 90° directions.

Triple branch universal male elbow

KQ2ZT P.2.1-19



Used for six branches at right angles from the female thread. Three individual parts rotate 360°.

Branch union elbow

KQ2LU P.2.1-20



Used for connection of tubes at right angles.

Extended plug-in elbow

KQ2W



P.2.1-20

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

Male delta union

KQ2D P.2.1-24



Used for two branch piping at right angles from the female thread.

Delta union

KQ2D P.2.1-24



Used for three branch connections of tubes at right angles.

Delta branch

KQ2UD P.2.1-25



Used for four branch piping in the same direction from the female thread.

Different dia. double union "Y"

KQ2UD P.2.1-25



Used for four branch connections in the same direction reducing the size of the tubes.

Different dia. plug-in "Y"

KQ2X P.2.1-26



Used for branch connections from the fitting reducing the size of tubes.

Double plug-in "Y"

KQ2XD P.2.1-26



Used for four branch connections from the fitting reducing the size of tube.

Union "Y"

KQ2U P.2.1-25



Used to connect tubes in the same direction.

Different dia. union "Y"

KQ2U P.2.1-25



Used to connect tubes with size down in the same direction.

Plug-in "Y"

KQ2U P.2.1-26



Used to branch tubing in the same direction from One-touch fittings.

Branch "Y"

KQ2U P.2.1-24



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

Plug-in reducer

KQ2R P.2.1-27



Used to change size of One-touch fittings.

Bulkhead male elbow

KQ2LE P.2.1-27



Used to connect two tubes through a panel changing by 90° in a tube fetching direction.

Adaptor

KQ2N P.2.1-28



Used to connect the fitting and R (PT) female thread.

Tube cap

KQ2C P.2.1-28



Used to plug the unused tube.

Colour cap

KQ2C P.2.1-28



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

Plug

KQ2P, KQP P.2.1-28



Used to shut unused One-touch fittings. KQP (Blue) KQ2P (White)

K ☐

M ☐

H ☐

D ☐

MS

T ☐

LQ

Clean Room

Series KQ2

Male connector: KQ2H

<M5, M6>



<R(PT)>



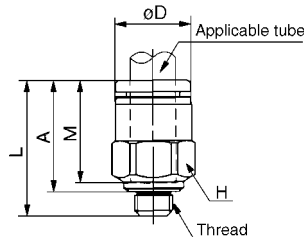
Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D^{(1)}$	L	A*	M	Effective ⁽²⁾ area (mm ²)		Weight (g)
								Nylon	Urethane	
3.2	M5	KQ2H23-M5	7	7	16.7	13.6	12.7	3	2.5	2.1
	1/8	KQ2H23-01S	10	—	22	18	15.5	3.4	2.9	9
	1/4	KQ2H23-02S	14	—	19.5	13.5	—	—	—	16
4	M5	KQ2H04-M5	8	8	17	13.9	12.7	4	4	2.4
	M6	KQ2H04-M6	8	8	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	—	—	—	16
6	M5	KQ2H06-M5	10	10	17.8	14.7	13.5	4	4	3.3
	M6	KQ2H06-M6	10	10	19	14.9	—	—	—	3.4
	1/8	KQ2H06-01S	12	—	22.5	18.5	—	—	—	16
	1/4	KQ2H06-02S	14	—	23	17	17	13.1	10.4	14
8	3/8	KQ2H06-03S	17	—	22	15.5	—	—	—	27
	1/8	KQ2H08-01S	14	—	28	24	18.5	26.1	18.0	21
	1/4	KQ2H08-02S	17	—	26.5	20.5	—	—	—	19
10	3/8	KQ2H08-03S	17	—	22	15.5	—	—	—	26
	1/8	KQ2H10-01S	17	—	30	26	21	26.1	26.1	19
	1/4	KQ2H10-02S	17	—	33.5	27.5	—	—	—	30
	3/8	KQ2H10-03S	17	—	29	22.5	—	41.5	29.5	30
12	1/2	KQ2H10-04S	22	—	27	19	—	—	—	53
	1/4	KQ2H12-02S	19	—	34.5	28.5	22	58.3	46.1	42
	3/8	KQ2H12-03S	19	—	30	23.5	—	—	—	34
16	1/2	KQ2H12-04S	22	—	30	22	—	—	—	51
	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	—	113	(96)	47

*Reference dimensions after R(PT) thread installation.

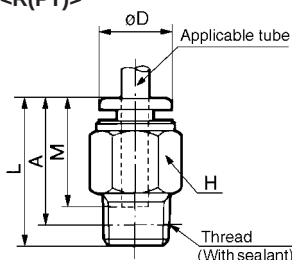
Note1) ϕD : max. diameter

Note2) (): Values for soft nylon

<M5, M6>



<R(PT)>



Hexagon socket head male connector: KQ2S

<M5, M6>



<R(PT)>



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L	A*	M	Effective ⁽²⁾ area (mm ²)		Weight (g)
									Nylon	Urethane	
4	M5	KQ2S04-M5	2.5	8	—	18.7	15.6	12.7	4	4	2.7
	M6	KQ2S04-M6	3	—	—	18.2	14.1	—	—	—	2.8
	1/8	KQ2S04-01S	3	9.8	—	23	19	16	4.1	3.6	8
6	M5	KQ2S06-M5	2.5	10	—	19.5	16.4	13.5	4	4	3.3
	M6	KQ2S06-M6	3	—	—	19.1	15	—	—	—	3.4
	1/8	KQ2S06-01S	4	11.8	—	24	20	17	10.0	9.9	9
	1/4	KQ2S06-02S	4	13.8	—	24	18	—	10.7	10.0	15
8	1/8	KQ2S08-01S	5	14	—	28	24	18.5	17.2	—	12
	1/4	KQ2S08-02S	6	—	—	25.5	19.5	—	23.3	16.2	11
	3/8	KQ2S08-03S	6	17	—	27.5	21	—	—	—	24
	1/8	KQ2S10-01S	5	17	—	30	26	21	17.2	10.0	18
10	1/4	KQ2S10-02S	8	17	—	27.5	21.5	—	39.0	26.6	12
	3/8	KQ2S10-03S	8	—	—	27.5	21	—	—	—	19
	1/2	KQ2S10-04S	8	22	—	28	20	—	—	—	35
12	1/4	KQ2S12-02S	8	19	—	33.5	27.5	22	46.0	—	23
	3/8	KQ2S12-03S	10	—	—	29	22.5	—	60.0	44.5	18
	1/2	KQ2S12-04S	10	22	—	28	20	—	—	—	30
16	3/8	KQ2S16-03S	10	25.7	24	39	32.5	25	81	(81)	42
	1/2	KQ2S16-04S	12	—	—	35	27	—	113	(96)	34

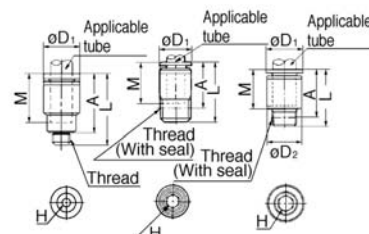
*Reference dimensions after R(PT) thread installation.

Note1) ϕD_1 : max. diameter

Note2) (): Values for soft nylon

<M5, M6> <R(PT)>

KQ2S04 to 12 KQ2S16

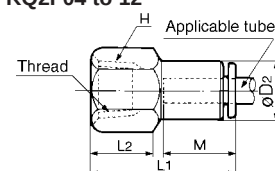


Female connector: KQ2F

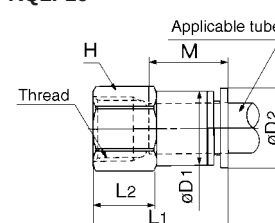


Tube O.D. (mm)	Thread Rc(PT)	Part No.	H (Hex.)	ϕD_1	$\phi D_2^{(1)}$	L1	L2	M	Effective ⁽²⁾ area (mm ²)		Weight (g)
									Nylon	Urethane	
4	1/8	KQ2F04-01	14	—	10	27	11	16	5.6	4	15
	1/4	KQ2F04-02	17	—	—	31	14	—	—	—	23
6	1/8	KQ2F06-01	14	—	12	27.5	11	17	13.1	10.4	15
	1/4	KQ2F06-02	17	—	—	31	13	—	—	—	22
	3/8	KQ2F06-03	19	—	—	33.5	15	—	—	—	25
8	1/8	KQ2F08-01	14	—	14	29	11	18.5	26.1	18.0	17
	1/4	KQ2F08-02	17	—	—	32.5	13	—	—	—	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
	3/8	KQ2F10-03	19	—	—	36.5	15	—	—	—	30
12	1/4	KQ2F12-02	19	—	19	35	14	22	58.3	46.1	36
	3/8	KQ2F12-03	24	—	—	37	18	—	—	—	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	24	25.7	43	19	—	113	(96)	58

KQ2F04 to 12



KQ2F16



*Reference dimensions after R(PT) thread installation.

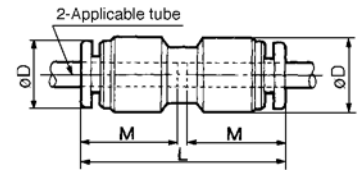
Note1) ϕD_2 : max. diameter

Note2) (): Values for soft nylon

Straight union: KQ2H



Tube O.D. (mm)	Part No.	øD ⁽¹⁾	L	M	Effective ⁽²⁾ area (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



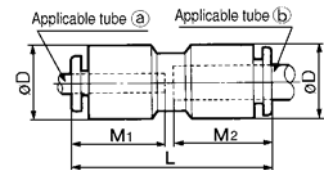
Note1) øD: max. diameter

Note2) (): Values for soft nylon.

Different diameter straight: KQ2H



Tube O.D. (mm)		Part No.	øD ⁽¹⁾	L	M1	M2	Effective ⁽²⁾ area (mm ²)		Weight (g)
a	b						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



Note1) øD: max. diameter

Male elbow: KQ2L

<M5>



<M6>

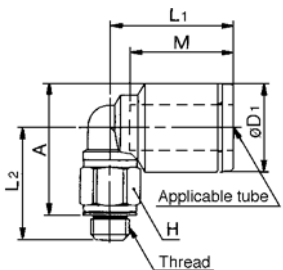


<R(PT)>

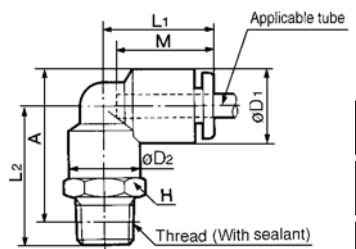


Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	øD1 ⁽¹⁾	øD2	L1	L2	A	M	Effective ⁽²⁾ area (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M5	KQ2L23-M5	7	8.5	—	15.3	13.2	14.3	12.7	2.6	2.2	2.5
	1/8	KQ2L23-01S	10	9.6	10	17.5	21.5	22.5	15.5	3	2.5	8
	1/4	KQ2L23-02S	14	—	—	—	25.5	24.5	—	—	—	18
4	M5	KQ2L04-M5	7	9.3	—	15.6	13.7	15.3	12.7	3.5	3.5	2.7
	M6	KQ2L04-M6	8	—	—	—	14.7	—	—	—	—	3.6
	1/8	KQ2L04-01S	10	10.4	10	18	22	23	16	4.2	4.2	10
6	1/4	KQ2L04-02S	14	—	—	—	26	25	—	—	—	19
	M5	KQ2L06-M5	7	11.6	—	16.1	14.7	17.4	13.5	3.5	3.5	3.2
	M6	KQ2L06-M6	8	—	—	—	15.7	—	—	—	—	4.1
8	1/8	KQ2L06-01S	10	12.8	10	20	23	25.5	17	11.4	9.0	12
	1/4	KQ2L06-02S	14	—	—	—	27	27.5	—	—	—	22
	3/8	KQ2L06-03S	17	—	—	—	29	29	—	—	—	33
10	1/8	KQ2L08-01S	12	15.2	12	23	24.5	28	18.5	21.6	14.9	13
	1/4	KQ2L08-02S	14	—	—	—	28.5	30	—	—	—	21
	3/8	KQ2L08-03S	17	—	—	—	30.5	31.5	—	—	—	35
12	1/8	KQ2L10-01S	17	18.5	17	26.5	27	32	21	21.6	14.9	25
	1/4	KQ2L10-02S	22	—	—	—	30	33	—	—	—	26
	3/8	KQ2L10-03S	22	—	—	—	32	34.5	—	35.2	25.0	36
16	1/2	KQ2L10-04S	22	—	—	—	36	37	—	—	—	63
	1/4	KQ2L12-02S	17	20.9	17	28.5	31	35.5	22	50.2	39.7	28
	3/8	KQ2L12-03S	22	—	—	—	33	37	—	—	—	38
16	1/2	KQ2L12-04S	22	—	—	—	37	39.5	—	—	—	65
	3/8	KQ2L16-03S	22	26.5	20.9	34	38	44.5	25	71	(71)	101
	1/2	KQ2L16-04S	22	—	—	—	41	46	—	100	(84)	105

<M5, M6>



<R(PT)>



*Reference dimensions after R(PT) thread installation.

Note1) øD1: max. diameter

Note2) (): Values for soft nylon.



K□

M□

H□

D□

MS

T□

LQ

Clean
Room

Series KQ2

Male branch connector: KQ2LU

<M5, M6>



<R(PT)>

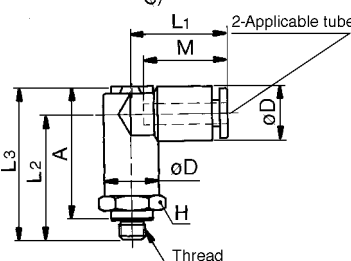
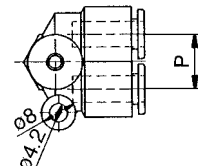


Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	ØD ⁽¹⁾	L1	L2	L3	A [*]	M	P	Effective area (mm ²)		Weight (g)
											Nylon	Urethane	
4	M5	KQ2LU04-M5	11	10.4	18.5	24	29.5	25.5	16	10.4	4.3	4.1	10
	M6	KQ2LU04-M6				24.5	30						
	1/8	KQ2LU04-01S	26.5			32	27.5	6.0			4.1	12	
	1/4	KQ2LU04-02S	30.5			36	30					21	
6	M5	KQ2LU06-M5	13	12.8	21	26.5	33	29.5	17	12.8	4.3	4.3	13
	M6	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				38	45.5	39			35		
10	1/4	KQ2LU10-02S	19	18.5	27	40	49.5	43.5	21	18.5	40.8	29.0	41
	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				46.5	57	49			65		

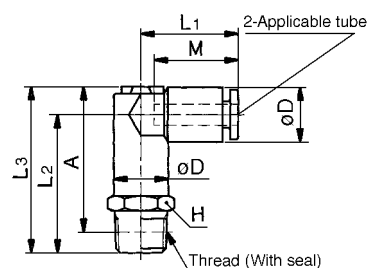
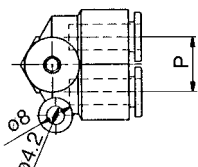
*Reference dimensions after R(PT) thread installation.
Note1) ϕD : max. diameter



<M5, M6>



<R(PT)>



45° Male elbow: KQ2K

<M5, M6>



<R(PT)>



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D1^{(1)}$	$\phi D2$	L1	L2	A*	M	Effective ⁽²⁾ area (mm ²)		Weight (g)
										Nylon	Urethane	
4	M5	KQ2K04-M5	8	10.4	8	17	14.5	26	16	3.4	3.4	4
	M6	KQ2K04-M6	10				15					5
	1/8	KQ2K04-01S	10				20.5	32				10
	1/4	KQ2K04-02S	14				24.5	34				19
6	M5	KQ2K06-M5	8	12.8	8	18	18	14.5	17	3.4	3.4	6
	M6	KQ2K06-M6	10				15					5
	1/8	KQ2K06-01S	10				20.5	33				12
	1/4	KQ2K06-02S	14				24.5	35				33
8	3/8	KQ2K06-03S	17	15.2	12	20.5	26.5	36.5	18.5	19.7	19.7	13
	1/8	KQ2K08-01S	12				22	37				21
	1/4	KQ2K08-02S	14				26	39				35
	3/8	KQ2K08-03S	17				28	41				25
10	1/8	KQ2K10-01S	12	18.5	17	24	24	42	21	30.9	23.2	26
	1/4	KQ2K10-02S	17				27	43.5				36
	3/8	KQ2K10-03S	17				29	45				63
	1/2	KQ2K10-04S	22				33	47.5				28
12	1/4	KQ2K12-02S	17	20.9	17	25	27.5	45.5	22	44.5	35.1	38
	3/8	KQ2K12-03S	22				29.5	47.5				65
	1/2	KQ2K12-04S	22				33.5	49.5				52
	3/8	KQ2K16-03S	22	26.5	20.9	30	32	55	25	65.8	(65.8)	58
16	1/2	KQ2K16-04S	22				35	56.5				58

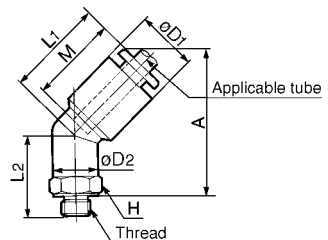
*Reference dimensions after R(PT) thread installation.

Note1) $\phi D1$: max. diameter

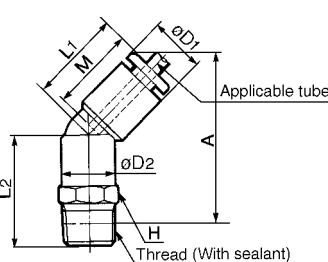
Note2) (): Values for soft nylon.



<M5, M6>



<R(PT)>



Universal male elbow: KQ2V

<M5>



<R(PT)>



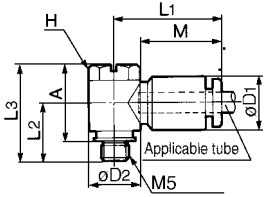
Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L1	L2	L3	A*	M	Effective area (mm ²) ⁽²⁾		Weight (g)
											Nylon	Urethane	
4	M5	KQ2V04-M5	8	10.4	9.8	20.5	11	18.5	15	16	2.9	2.9	6
	1/8	KQ2V04-01S			13.4	22	14.5	26.5	22.5		3.8	3.8	14
6	M5	KQ2V06-M5	8	12.8	9.8	23.5	12	18.5	15	17	7.5	5.9	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	30
	3/8	KQ2V08-03S	14		20.6	27.5	20.5	36.5	30				47
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(PT) thread installation.

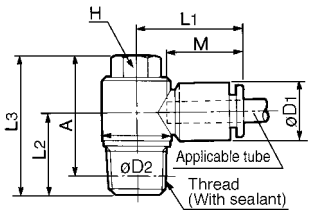
Note1) ϕD_1 : max. diameter

Note2) (): Values for soft nylon.

<M5>



<R(PT)>



Hexagon socket head universal male elbow: KQ2VS

<M5>



<R(PT)>

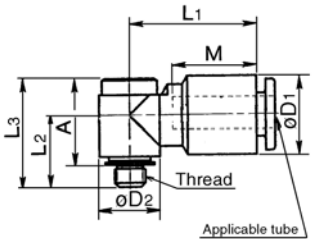


Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L1	L2	L3	A*	M	Effective area (mm ²) ⁽²⁾		Weight (g)
											Nylon	Urethane	
4	M5	KQ2VS04-M5	4	10.4	9.8	20.5	10.5	18	15	16	2.9	2.9	6
	1/8	KQ2VS04-01S	6		13.4	22	14.5	26.5	22.5		3.8	3.8	14
6	M5	KQ2VS06-M5	4	12.8	9.8	23.5	12	18	15	17	7.5	5.9	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	30	24				20.5	14.3	30
	3/8	KQ2VS08-03S			20.6	27.5	20.5	32.5	26				47
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

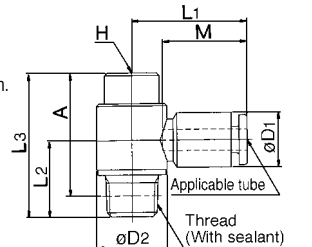
*Reference dimensions after R(PT) thread installation.

Note1) ϕD_1 : max. diameter

<M5>



<R(PT)>



K□

M□

H□

D□

MS

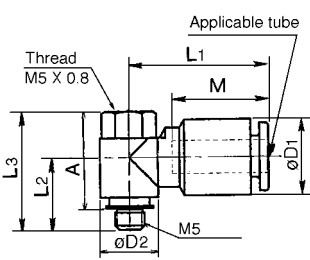
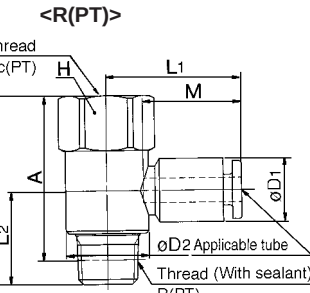
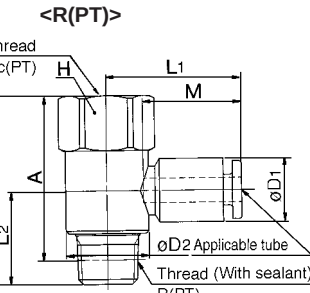
T□

LQ

Clean
Room

Series KQ2

Universal female elbow: KQ2VF

<M5>		Tube O.D. (mm)	Thread Rc(PT) R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L1	L2	L3	A*	M	Weight (g)	<M5>	
<R(PT)>															
	4		M5	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	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		
	8		M5	KQ2VF08-01S	8	15.2	17.6	28.5	17	31	27	18.5	29		
		1/4	KQ2VF08-02S	17			17.6	25	20	38.5	32.5		36		
	10		M5	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		M5	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(PT) thread installation.
Note1) ϕD_1 : max. diameter

Female elbow: KQ2LF

<M5, M6>

<Rc(PT)>

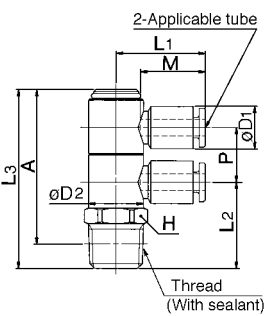
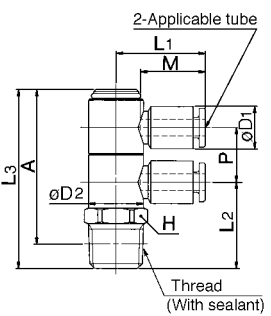
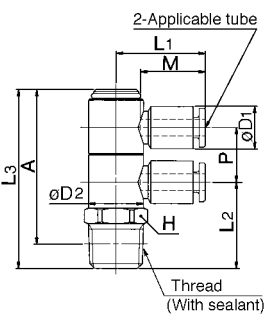
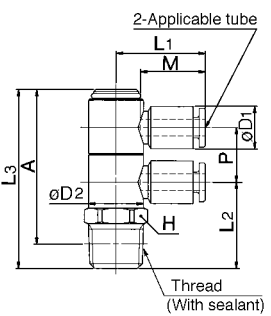
Tube O.D. (mm)	Thread Rc(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L1	L2	M	Effective area (mm ²)		Weight (g)	
									Nylon	Urethane		
4	M5	KQ2LF04-M5	8	10.4	8	18.5	14.5	16	3.5	3.5	5	
	M6	KQ2LF04-M6					15.5					
	1/8	KQ2LF04-01	14		10		21		4.2	4.2	13	
	1/4	KQ2LF04-02	17				24.5				20	
6	M5	KQ2LF06-M5	8	12.8	8	20.5	15	17	3.5	3.5	5	
	M6	KQ2LF06-M6					16				6	
	1/8	KQ2LF06-01	14		10		22		11.4	9.0	13	
	1/4	KQ2LF06-02	17				25.5				20	
8	3/8	KQ2LF06-03	19	15.2	12	23.5	26	18.5	21.6	14.9	27	
	1/8	KQ2LF08-01	14				23				16	
	1/4	KQ2LF08-02	17				26.5				22	
	3/8	KQ2LF08-03	19				27				23	
10	1/4	KQ2LF10-02	17	18.5	17	26.5	28	21	21.6	14.9	27	
	3/8	KQ2LF10-03	19				28.5				46	
	1/2	KQ2LF10-04	24				32.5		35.2	25.0	29	
12	1/4	KQ2LF12-02	17	20.9	17	28.5	29.5	22	50.2	39.7	29	
	3/8	KQ2LF12-03	19				30				48	
	1/2	KQ2LF12-04	24				34					

<M5, M6>

<Rc(PT)>

Note1) ϕD_1 : max. diameter

Double universal male elbow: KQ2VD

<M5, M6>		Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L1	L2	L3	A*	M	P	Weight (g)	<M5, M6>	
<Rc(PT)>																
	4		M5	KQ2VD04-01S	14	10.4	13.4	22	18.5	41	37	16	13.4	23		
			M6	KQ2VD04-02S	17				21.5	44	38			29		
		1/8	KQ2VD04-03S	17					23.5	46	40			42		
		1/4	KQ2VD04-04S	24					28.5	55.5	47.5			82		
	6		M5	KQ2VD06-01S	14	12.8	13.4	24.5	18.5	41	37	17	13.4	24		
			M6	KQ2VD06-02S	17				21.5	44	38			30		
		1/8	KQ2VD06-03S	17					23.5	46	40			42		
		1/4	KQ2VD06-04S	24					28.5	55.5	47.5			82		
	8		M5	KQ2VD08-01S	19	15.2	17.6	28.5	21	48	44	18.5	15.9	53		
			M6	KQ2VD08-02S	22				24	51	45			51		
		1/8	KQ2VD08-03S	22					25	52	45.5			60		
		1/4	KQ2VD08-04S	24					28.5	55.5	47.5			82		
	10		M5	KQ2VD10-02S	21	18.5	20.6	31.5	26.5	58	52	21	19.2	71		
			M6	KQ2VD10-03S	24				27.5	59	53			74		
		1/8	KQ2VD10-04S	24					30.5	62	54			91		
		1/4	KQ2VD10-05S	24					32.5	68.5	60			125		

*Reference dimensions after R(PT) thread installation.
Note1) ϕD_1 : max. diameter

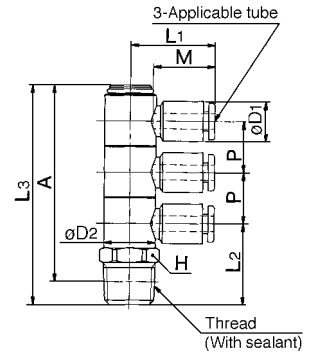
Triple universal male elbow: KQ2VT



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	⁽¹⁾ 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	17				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	17				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(PT) thread installation.

Note1) øD1: max. diameter



Branch universal male elbow: KQ2Z

<M5>



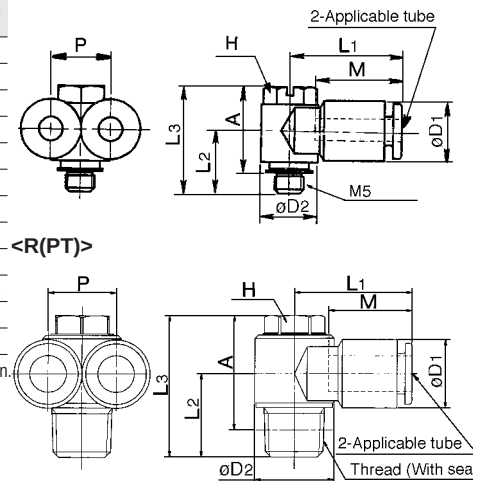
<R(PT)>



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	⁽¹⁾ øD1	øD2	L1	L2	L3	A*	M	P	Effective area (mm ²)		Weight (g)
												Nylon	Urethane	
4	M5	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	8		13.4	21	14.5	26.5	22.5			4.7	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	8.6	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	14.2	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	22.6	46
	3/8	KQ2Z10-03S	14		20.6	29	20.5	36.5	30					54
	1/2	KQ2Z10-04S	17		20.9	25.2	22	39	32.5					71
12	1/2	KQ2Z12-04S	17	20.9	25.2	32.5	25	42	34	22	20.9	44.6	35.3	88

*Reference dimensions after R(PT) thread installation.

Note1) øD1: max. diameter



Branch universal female elbow: KQ2ZF

<M5>



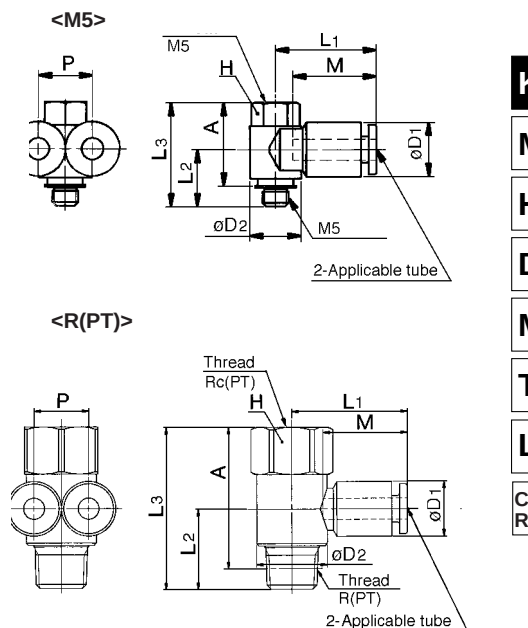
<R(PT)>



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	⁽¹⁾ øD1	øD2	L1	L2	L3	A*	M	P	Weight (g)
4	M5	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	24
	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(PT) thread installation.

Note1) øD1: max. diameter



K□

M□

H□

D□

MS

T□

LQ

Clean Room

Series KQ2

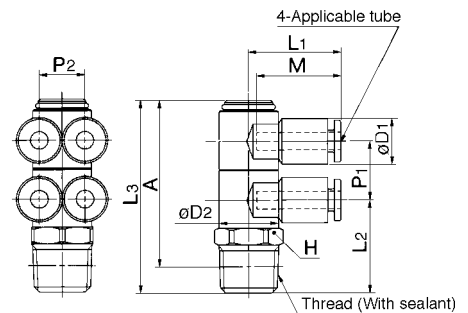
Double branch universal male elbow: KQ2ZD



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	⁽¹⁾ 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	17				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	17				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	21				24	51	45				72
	3/8	KQ2ZD08-03S	21				25	52	45.5				81
	1/2	KQ2ZD08-04S	21				28.5	55.5	47.5				102
10	1/4	KQ2ZD10-02S	21	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	21				30.5	62	54				128
12	1/4	KQ2ZD12-02S	26	20.9	25.2	32	28.5	64.5	58.5	22	21.6	20.9	178
	3/8	KQ2ZD12-03S	26				29.5	65.5	59				167
	1/2	KQ2ZD12-04S	26				32.5	68.5	60				179

*Reference dimensions after R(PT) thread installation.

Note1) ØD1: max. diameter



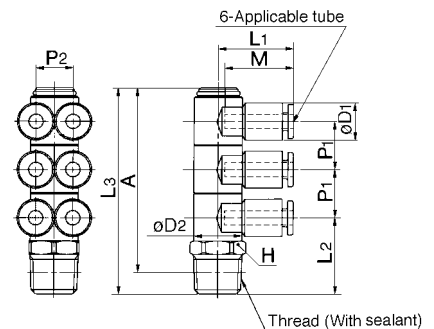
Triple branch universal male elbow: KQ2ZT



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	⁽¹⁾ 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	17				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	17				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	21				24	67	61				54
	3/8	KQ2ZT08-03S	21				25	68	61.5				62
	1/2	KQ2ZT08-04S	21				28.5	71.5	63.5				85
10	1/4	KQ2ZT10-02S	21	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	21				30.5	81.5	73.5				102
12	1/4	KQ2ZT12-02S	26	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	26				32.5	90	82				141

*Reference dimensions after R(PT) thread installation.

Note1) ØD1: max. diameter



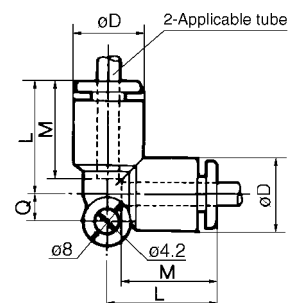
Union elbow: KQ2L



Tube O.D. (mm)	Part No.	ØD ⁽¹⁾	L	Q	M	Effective ⁽²⁾ area (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

Note1) ØD: max. diameter

Note2) (): Values for soft nylon.



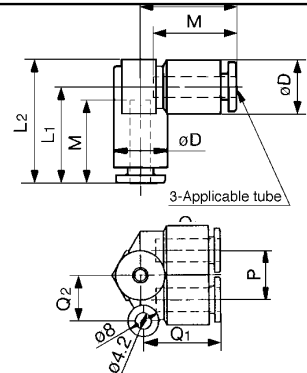
Branch union elbow: KQ2LU



Tube O.D. (mm)	Part No.	$\phi D^{(1)}$	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



Note1) ϕD : max. diameter



Plug-in elbow: KQ2L

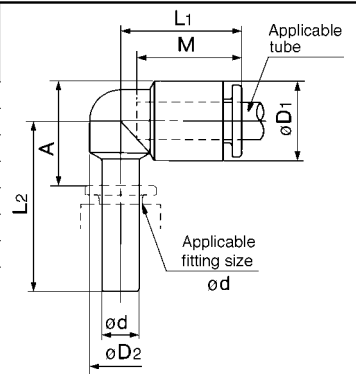


Tube O.D. (mm)	Fitting size ϕd	Part No.	$\phi D_1^{(1)}$	ϕD_2	L1	L2	A	M	Effective ⁽²⁾ area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	3.2	KQ2L23-99	9.6	7	17	24.5	14	15.5	3	2.5	2
4	4	KQ2L04-99	10.4	8	18	25	14.5	16	4.2	4.2	3
6	6	KQ2L06-99	12.8	10	20	27.5	17	17	11.4	9.0	3
8	8	KQ2L08-99	15.2	12	22.5	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



Note1) ϕD_1 : max. diameter

Note2) (): Values for soft nylon.



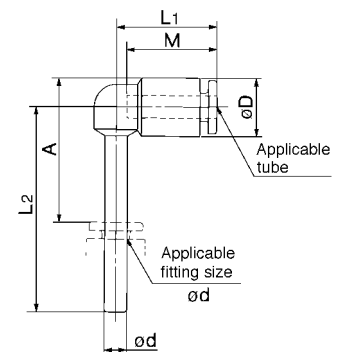
Extended plug-in elbow: KQ2W



Tube O.D. (mm)	Fitting size ϕd	Part No.	$\phi D^{(1)}$	L1	L2	A	M	Effective area (mm ²)		Weight (g)
								Nylon	Urethane	
3.2	3.2	KQ2W23-99	9.6	17.5	35	24.5	15.5	3	2.5	2
4	4	KQ2W04-99	10.4	18	37	26	16	4.2	4.2	3
6	6	KQ2W06-99	12.8	20	41.5	31	17	11.4	9.0	4
8	8	KQ2W08-99	15.2	22.5	48	37	18.5	21.6	14.9	6
10	10	KQ2W10-99	18.5	25.5	55	43.5	21	35.2	25.0	9
12	12	KQ2W12-99	20.9	27	59.5	48	22	50.2	39.7	13



Note1) ϕD : max. diameter



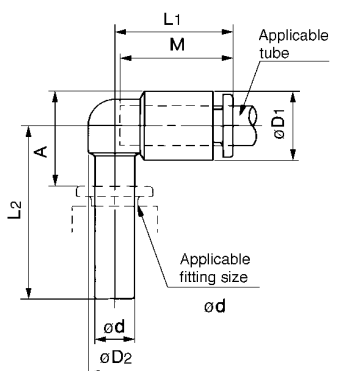
Reducer elbow: KQ2L



Tube O.D. (mm)	Fitting size ϕd	Part No.	$\phi D_1^{(1)}$	ϕD_2	L1	L2	A	M	Effective area (mm ²)		Weight (g)
									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	18	35	22				11
6	8	KQ2L06-08	12.8	10	19.5	30.5	18	17	11.4	9.0	12
	10	KQ2L06-10			20	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			23	40.5	26				27
10	12	KQ2L10-12	18.5	17	26.5	42	30	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



Note1) ϕD_1 : max. diameter



K□

M□

H□

D□

MS

T□

LQ

Clean
Room

Series KQ2

Extended male elbow: KQ2W

<M5>



<R(PT)>



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L1	L2	A*	M	Effective area (mm ²) ⁽²⁾		Weight (g)
										Nylon	Urethane	
3.2	M5	KQ2W23-M5	8	9.6	10	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	KQ2W04-M5	8	10.4	10	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	KQ2W06-M5	8	12.8	10	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		10.9	8.6	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

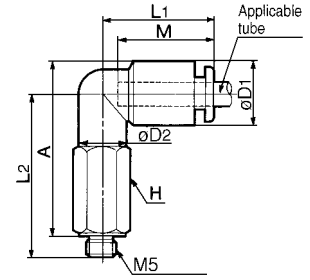
*Reference dimensions after R(PT) thread installation.



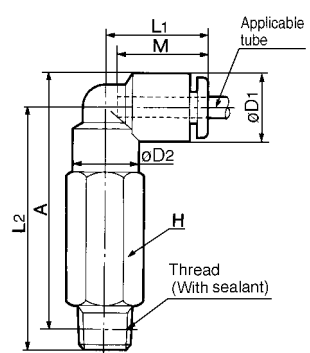
Note1) ϕD_1 : max. diameter

Note2) (): Values for soft nylon.

<M5>



<R(PT)>



Male branch tee: KQ2T

<M5>



<M6>



<R(PT)>



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L1	L2	A*	M	Effective area (mm ²) ⁽²⁾		Weight (g)
										Nylon	Urethane	
3.2	M5	KQ2T23-M5	7	8.4	—	15.3	13.2	14.3	12.7	3.2	2.7	3.2
	1/8	KQ2T23-01S	10	9.6	10	17.5	21.5	22.5	15.5	3.4	2.9	10
	1/4	KQ2T23-02S	14				25.5	24.5				20
4	M5	KQ2T04-M5	7	9.3	—	15.6	13.7	15.3	12.7	4.5	4.5	3.5
	M6	KQ2T04-M6	8				14.7	15.3				4.4
	1/8	KQ2T04-01S	10				22	23		6.0	4.1	13
	1/4	KQ2T04-02S	14				26	25				19
6	M5	KQ2T06-M5	7	11.6	—	16.1	14.7	17.4	13.5	4.5	4.5	4.4
	M6	KQ2T06-M6	8				15.7	17.4				5.3
	1/8	KQ2T06-01S	10				23	25.5	17	13.9	11.0	12
	1/4	KQ2T06-02S	14				27	27.5				20
8	3/8	KQ2T06-03S	17				29	29				34
	1/8	KQ2T08-01S	12	15.2	12	23	24.5	28	18.5	26.3	18.2	14
	1/4	KQ2T08-02S	14				28.5	30				22
	3/8	KQ2T08-03S	17				30.5	31.5				36
10	1/8	KQ2T10-01S	12	18.5	17	26.5	27	32	21	40.8	29.0	31
	1/4	KQ2T10-02S	17				30	33				29
	3/8	KQ2T10-03S	17				32	34.5				39
	1/2	KQ2T10-04S	22				36	37				66
12	1/4	KQ2T12-02S	17	20.9	17	28.5	31	35.5	22	57.2	45.2	31
	3/8	KQ2T12-03S	17				33	37				41
	1/2	KQ2T12-04S	22				37	39.5				68
16	3/8	KQ2T16-03S	22	26.5	20.9	34	38	44.5	25	71	(71)	112
	1/2	KQ2T16-04S	22				40.5	46		100	(100)	116

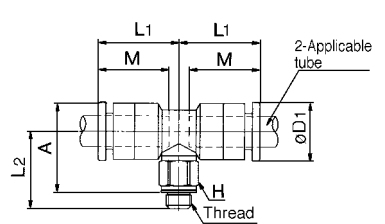
*Reference dimensions after R(PT) thread installation.



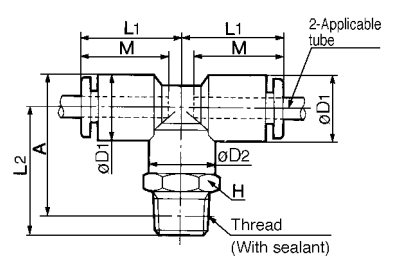
Note1) ϕD_1 : max. diameter

Note2) (): Values for soft nylon.

<M5, M6>



<R(PT)>



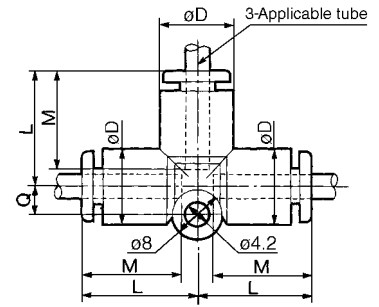
Union tee: KQ2T



Tube O.D. (mm)	Part No.	⁽¹⁾ øD	L	Q	M	Effective ⁽²⁾ area (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



Note1) øD: max. diameter
Note2) (): Values for soft nylon.



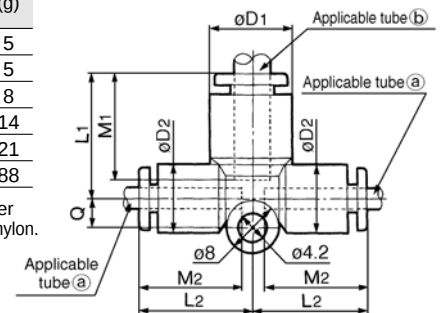
Different diameter tee: KQ2T



Tube O.D. (mm)		Part No.	⁽¹⁾ øD1	øD2	L1	L2	Q	M1	M2	Effective ⁽²⁾ area (mm ²)		Weight (g)
a	b									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



Note1) øD1: max. diameter
Note2) (): Values for soft nylon.



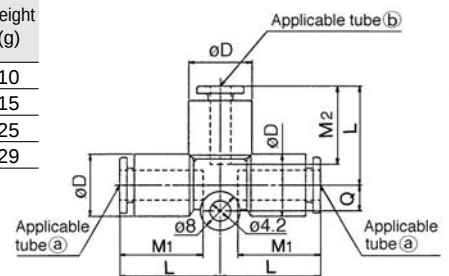
Different diameter tee: KQ2T



Tube O.D. (mm)		Part No.	⁽¹⁾ øD	L	Q	M1	M2	Effective ⁽²⁾ area (mm ²)		Weight (g)
a	b							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



Note1) øD: max. diameter



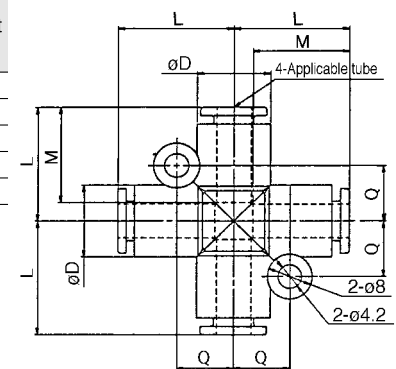
Cross: KQ2TW



Tube O.D. (mm)	Part No.	⁽¹⁾ øD	L	Q	M	Effective ⁽²⁾ 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



Note1) øD: max. diameter



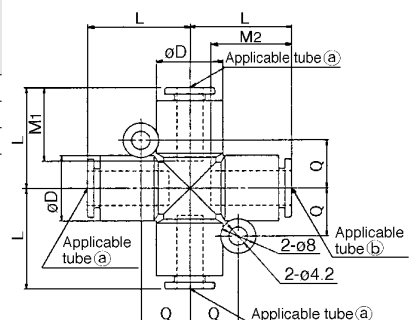
Different diameter cross: KQ2TX



Tube O.D. (mm)		Part No.	⁽¹⁾ øD	L	Q	M1	M2	Effective ⁽²⁾ area (mm ²)		Weight (g)
a	b							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



Note1) øD: max. diameter



K□

M□

H□

D□

MS

T□

LQ

Clean Room

Series KQ2

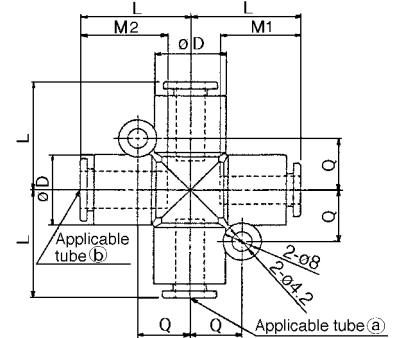
Different diameter cross: KQ2TY



Tube O.D. (mm)		Part No.	$\phi D^{(1)}$	L	Q	M1	M2	Effective area (mm ²)		Weight (g)
a	b							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



Note1) ϕD : max. diameter



Male run tee: KQ2Y

<M5>



<M6>



<R(PT)>



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	ϕD_2	L1	L2	L3	A*	M	Effective area (mm ²) ⁽²⁾		Weight (g)
											Nylon	Urethane	
3.2	M5	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	—	—	—	25.5	—	37	—	—	—	20
4	M5	KQ2Y04-M5	7	9.3	—	15.6	13.7	14.8	25.4	12.7	4.5	4.5	3.5
	M6	KQ2Y04-M6	8	—	—	—	14.7	—	—	—	—	—	6
	1/8	KQ2Y04-01S	10	10.4	10	18	22	—	36	16	6.4	4.4	13
6	1/4	KQ2Y04-02S	14	—	—	—	26	—	38	—	—	—	19
	M5	KQ2Y06-M5	7	11.6	—	17.1	14.7	17.1	28.7	13.5	4.5	4.5	4.5
	M6	KQ2Y06-M6	8	—	—	—	15.7	—	—	—	—	—	7
8	1/8	KQ2Y06-01S	10	12.8	10	20	23	—	39	17	13.4	10.6	12
	1/4	KQ2Y06-02S	14	—	—	—	27	—	41	—	—	—	20
	3/8	KQ2Y06-03S	17	—	—	—	29	—	42.5	—	—	—	34
10	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	—	—	—	28.5	—	45.5	—	—	—	22
	3/8	KQ2Y08-03S	17	—	—	—	30.5	—	47	—	—	—	36
12	1/8	KQ2Y10-01S	17	18.5	17	26.5	27	—	49.5	21	40.0	28.4	31
	1/4	KQ2Y10-02S	22	—	—	—	30	—	50.5	—	—	—	29
	3/8	KQ2Y10-03S	—	—	—	—	32	—	52	—	—	—	39
16	1/2	KQ2Y10-04S	22	—	—	—	36	—	54.5	—	—	—	66
	1/4	KQ2Y12-02S	17	20.9	17	28.5	31	—	53.5	22	57.4	45.4	31
	3/8	KQ2Y12-03S	22	—	—	—	33	—	55	—	—	—	41
16	1/2	KQ2Y12-04S	22	26.5	20.9	34	37	—	57.5	25	81	(81)	68
	3/8	KQ2Y16-03S	—	—	—	—	38	—	65.5	—	—	—	112
	1/2	KQ2Y16-04S	—	—	—	—	41	—	67	—	113	(113)	116

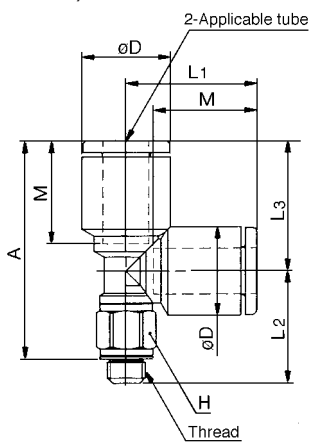
*Reference dimensions after R(PT) thread installation.

Note1) ϕD_1 : max. diameter

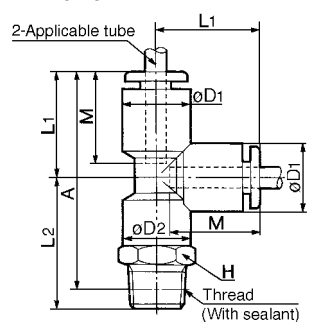
Note2) (): Values for soft nylon



<M5, M6>



<R(PT)>



Male delta: KQ2D

<M5, M6>



<R(PT)>

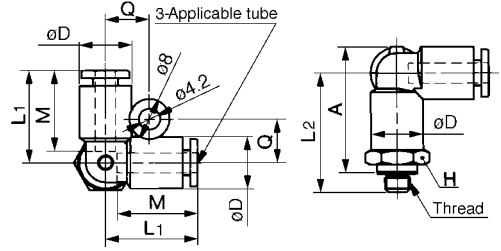


Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	(1) ØD	L1	L2	A*	M	Q	Effective area (mm ²)		Weight (g)		
										Nylon	Urethane			
4	M5	KQ2D04-M5	11	10.4	18.5	24	25.5	16	8.7	2.2	2.2	10		
	M6	KQ2D04-M6				24.5				4.3	4.3			
	1/8	KQ2D04-01S	14			26.5	27.5			6.0	6.0	12		
	1/4	KQ2D04-02S				30.5	29.5					21		
6	M5	KQ2D06-M5	13	12.8	20.5	26	28.5	17	9.9	4.3	4.3	12		
	M6	KQ2D06-M6				26.5						14		
	1/8	KQ2D06-01S	14			29	31.5			13.9	11.0	21		
	1/4	KQ2D06-02S				32.5	33					34		
	3/8	KQ2D06-03S	17			34.5	34.5							
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					35		
	3/8	KQ2D08-03S				19	37.5					38.5	39	
10	1/4	KQ2D10-02S	19	18.5	26.5	39.5	43	21	12.8	40.8	29.0	40		
	3/8	KQ2D10-03S				40.5	43.5					62		
	1/2	KQ2D10-04S	22			44	45							55
12	1/4	KQ2D12-02S	22	20.9	28.5	42	46.5	22	13.9	57.2	45.2	56		
	3/8	KQ2D12-03S				43	47					63		
	1/2	KQ2D12-04S				46	48.5							

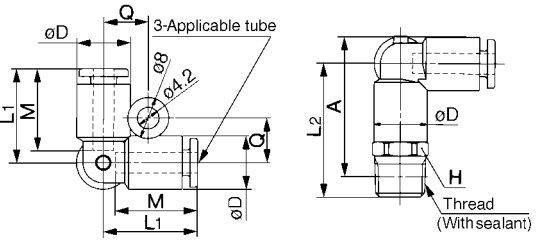
*Reference dimensions after R(PT) thread installation.

Note1) ϕD : max. diameter

<M5, M6>



<R(PT)>

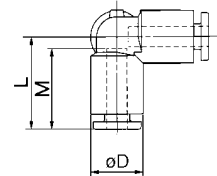
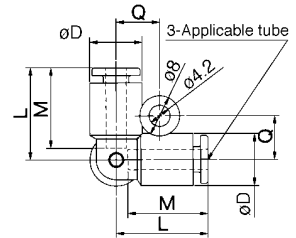


Delta union: KQ2D



Tube O.D. (mm)	Part No.	$\phi D^{(1)}$	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

Note1) ϕD : max. diameter



Branch "Y": KQ2U

<M5, M6>



<R(PT)>



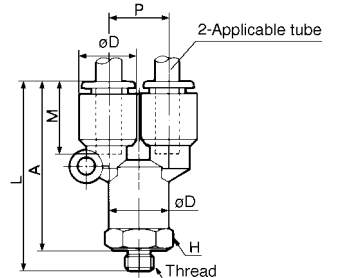
Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	$\phi D^{(1)}$	L	P	A*	M	Effective area (mm ²) ⁽²⁾		Weight (g)
									Nylon	Urethane	
3.2	M5	KQ2U23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9
	1/8	KQ2U23-01S	11		41		37		3.4	2.9	14
	1/4	KQ2U23-02S	14		44		38				
4	M5	KQ2U04-M5	11	10.4	39.5	10.4	36	16	2.2	2.2	4
	M6	KQ2U04-M6			40		38		4.2	4.2	10
	1/8	KQ2U04-01S			42		40				11
	1/4	KQ2U04-02S	14		46						20
6	M5	KQ2U06-M5	13	12.8	42.5	12.8	39	17	2.2	2.2	12
	M6	KQ2U06-M6			43		41.5		13.4	10.6	11
	1/8	KQ2U06-01S			45.5		43				21
	1/4	KQ2U06-02S	14		49		44.5				34
8	3/8	KQ2U06-03S	17		51						
	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
	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			65		57				65
	1/4	KQ2U12-02S	22		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
	3/8	KQ2U16-03S	27	26.5	76	26.5	69.5	25	81	(81)	106
16	1/2	KQ2U16-04S			79		71				111

*Reference dimensions after R(PT) thread installation.

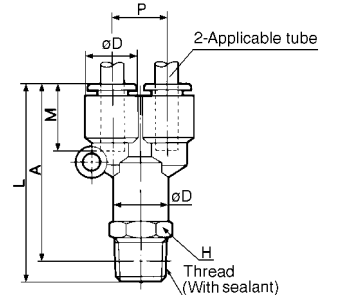
Note1) ϕD : max. diameter

Note2) (): Values for soft nylon

<M5, M6>



<R(PT)>



K□

M□

H□

D□

MS

T□

LQ

Clean Room

Series KQ2

Delta branch: KQ2UD



Tube O.D. (mm)	Thread R(PT)	Part No.	H (Hex.)	⁽¹⁾ ØD1	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											
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(PT) thread installation.

Note1) ØD1: max. diameter



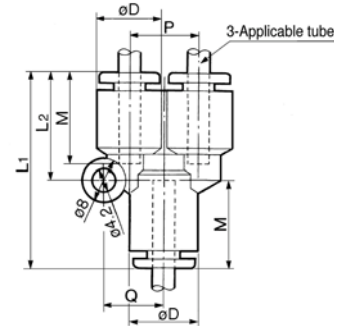
Union "Y": KQ2U



Tube O.D. (mm)	Part No.	ØD ⁽¹⁾	L1	L2	P	Q	M	Effective ⁽²⁾ area (mm 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

Note1) ØD: max. diameter

Note2) (): Values for soft nylon.

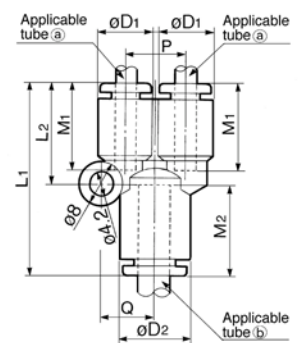


Different diameter union "Y": KQ2U



Tube O.D. (mm)		Part No.	ØD1 ⁽¹⁾	ØD2 ⁽¹⁾	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

Note1) ØD1, ØD2: max. diameter

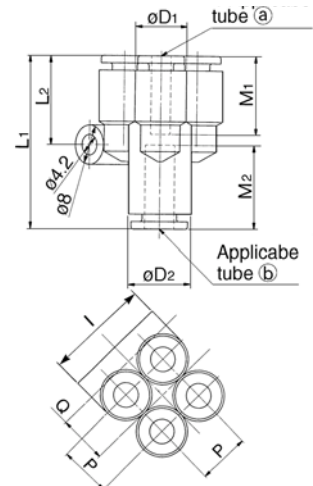


Different diameter double union "Y": KQ2UD



Tube O.D. (mm)		Part No.	ØD1 ⁽¹⁾	ØD2 ⁽¹⁾	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

Note1) ØD1, ØD2: max. diameter



Plug-in “Y”: KQ2U

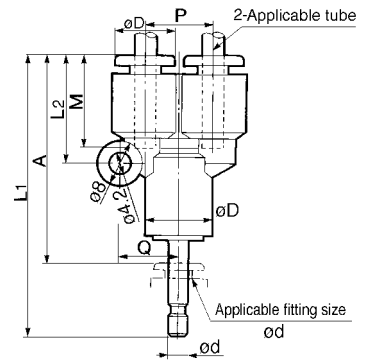


Tube O.D. (mm)	Fitting size ød	Part No.	(1) øD	L1	L2	P	Q	A	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	3.2	KQ2U23-99	9.6	50	17.5	9.6	9	35	15.5	3.4	2.9	6
4	4	KQ2U04-99	10.4	51.5	18	10.4	9.7	35.5	16	4.2	4.2	12
6	6	KQ2U06-99	12.8	55.5	20	12.8	11.7	38.5	17	13.4	10.6	18
8	8	KQ2U08-99	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



Note1) øD: max. diameter

Note2) (): Values for soft nylon.



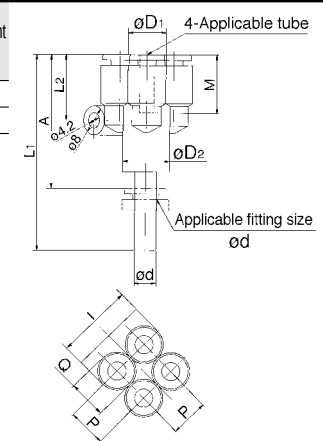
Double plug-in “Y”: KQ2XD



Tube O.D. (mm)	Fitting size ød	Part No.	(1) øD1	øD2	L1	L2	I	Q	A	P	M	Effective area (mm ²)		Weight (g)
												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



Note1) øD1: max. diameter



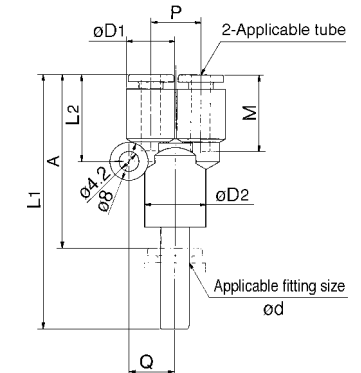
Different diameter plug-in “Y”: KQ2X



Tube O.D. (mm)	Fitting size ød	Part No.	(1) øD1	øD2	L1	L2	A	P	Q	M	Effective area (mm ²)		Weight (g)
											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



Note1) øD1: max. diameter



K□

M□

H□

D□

MS

T□

LQ

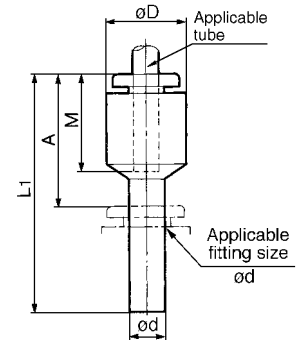
Clean
Room

Series KQ2

Plug-in reducer: KQ2R



Tube O.D. (mm)	Fitting size ød	Part No.	øD ⁽¹⁾	L	A	M	Effective ⁽²⁾ area (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				2.5
	10	KQ2R06-10		39.5	18.5		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
	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

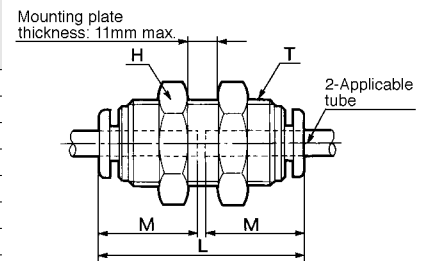


Note1) øD: max. diameter
Note2) (): Values for soft nylon.

Bulkhead union: KQ2E



Tube O.D. (mm)	Part No.	T (M)	H (Hex.)	L	Mounting hole	M	Effective ⁽¹⁾ area (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	12	16	5.6	4	26
6	KQ2E06-00	M14 X 1	17	34.5	14	17	13.1	10.4	33
8	KQ2E08-00	M16 X 1	19	38	16	18.5	26.1	18.0	52
10	KQ2E10-00	M20 X 1	24	42.5	20	21	41.5	29.5	70
12	KQ2E12-00	M22 X 1	27	44	22	22	58.3	46.1	90
16	KQ2E16-00	M28 X 1.5	32	51	28	25	113	(96)	115

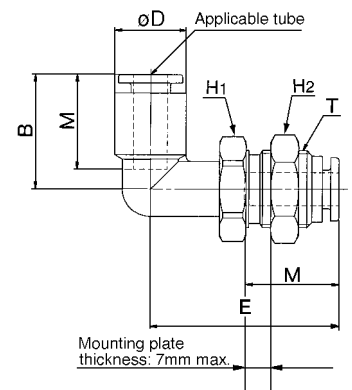


Note1) (): Values for soft nylon.

Bulkhead male elbow: KQ2LE



Tube O.D. (mm)	Part No.	T	H1 (Hex.)	H2 (Hex.)	B	E	øD ⁽¹⁾	Mounting hole	M	Effective ⁽¹⁾ area (mm ²)		Weight (g)
										Nylon	Urethane	
4	KQ2LE04-00	M12 X 1	14	14	18.5	31	10.4	12	16	4.2	4.2	18
6	KQ2LE06-00	M14 X 1	17	17	20.5	34	12.8	14	17	11.4	9.0	25
8	KQ2LE08-00	M16 X 1	17	19	23.5	38.5	15.2	16	18.5	21.6	14.9	33
10	KQ2LE10-00	M20 X 1	22	24	26.5	43.5	18.5	20	21	35.2	25.0	63
12	KQ2LE12-00	M22 X 1	24	27	28.5	45.5	20.9	22	22	50.2	39.7	77

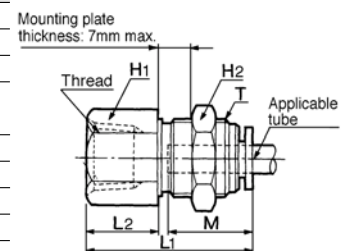


Note1) øD: max. diameter

Bulkhead connector: KQ2E



Tube O.D. (mm)	Thread Rc(PT)	Part No.	T (M)	H1 (Hex.)	H2 (Hex.)	L1	L2	Mounting hole	M	Effective ⁽¹⁾ area (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	12	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	14	17	13.1	10.4	30
	1/4	KQ2E06-02				31.5	15					29
	3/8	KQ2E06-03				33.5	17					29
8	1/8	KQ2E08-01	M16 X 1	17	19	27.5	7.5	16	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	20	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	22	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	28	25	96	(96)	127
	1/2	KQ2E16-04				44	18			113		132

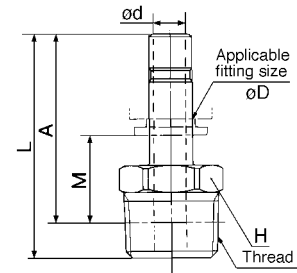


Note1) (): Values for soft nylon.

Adaptor: KQ2N



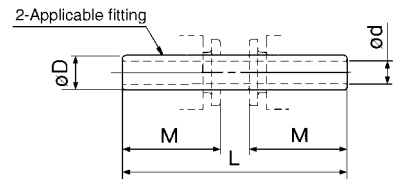
Fitting size øD	Thread R(PT)	Part No.	H (Hex.)	L	A	M	ød	Weight (g)
4	M5	KQ2N04-M5	7	32	29	13	2.5	2
	1/8	KQ2N04-01S	10	34	30	14		6
6	M5	KQ2N06-M5	7	33	30	13	2.5	2
	1/8	KQ2N06-01S	10	35	31	14		5
	1/4	KQ2N06-02S	14	37.5	31.5	14.5	4.5	14
8	1/4	KQ2N08-02S	14	39	33	14.5	6	17
	3/8	KQ2N08-03S	17	41	34.5	16		30
10	3/8	KQ2N10-03S	17	46	39.5	18.5	7.5	31



Nipple: KQ2N



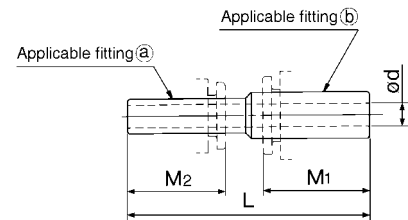
Fitting size øD	Part No.	L	M	ød	Weight (g)
4	KQ2N04-99	37	16	2.5	1
6	KQ2N06-99	39	17	4	2
8	KQ2N08-99	43	18.5	6	2
10	KQ2N10-99	49	21	7.5	4
12	KQ2N12-99	52	22	9	20.6
16	KQ2N16-99	57	25	13	31



Reducer nipple: KQ2N



Fitting size		Part No.	L	M1	M2	ød	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



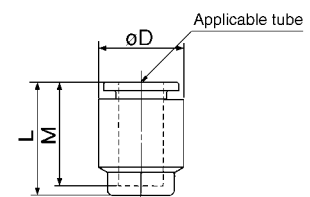
Tube cap: KQ2C



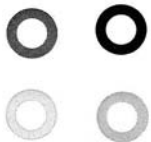
Tube O.D. (mm)	Part No.	øD ⁽¹⁾	L	M	Weight (g)
4	KQ2C04-00	10.4	17	16	3
6	KQ2C06-00	12.8	18.5	17	3
8	KQ2C08-00	15.2	20.5	18.5	4
10	KQ2C10-00	18.5	23	21	6
12	KQ2C12-00	20.9	24	22	8
16	KQ2C16-00	26.5	28	25	13



Note1) øD: max. diameter

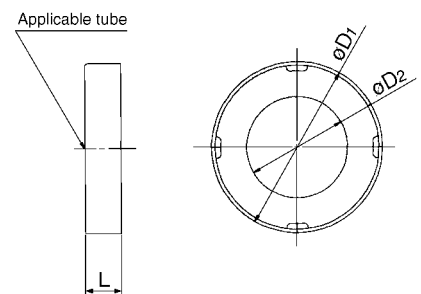


Colour cap: KQ2C



Tube O.D. (mm)	Part No.	øD1	øD2	L	Weight (g)	
4	KQ2C-04□	10.1	5.2	2.9	0.1	KQH, KQ2H04-M5, M6 KQS, KQ2S04-M5, M6
4	KQ2C-04A-□	8.5	5	2.2	0.1	
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	
8	KQ2C-08□	14.1	9.2	2.9	0.1	KQL, KQ2L06-M5, M6 KQT, KQ2T06-M5, M6 KQY, KQ2Y06-M5, M6
10	KQ2C-10□	17.1	11.2		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)



K□

M□

H□

D□

MS

T□

LQ

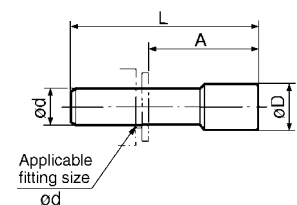
Clean Room

Plug: KQ2P, KQP



Fitting size ød	Part No.		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)



Series KQ2

Made to Order

Consult SMC for detailed specifications, dimensions and delivery.



① Oil free applications — Vaseline™ is used as lubricant.

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, consult SMC)

Materials in each part

Body*	SUS□, PBT
Stud*	SUS□ (Thread portion)
Chuck	SUS304
Guide*	SUS□, POM
Collet, Release button	POM
Packing, O ring	NBR

*Every one of SUS303, SUS304 and SUS316 is possible to use.

How to Order — Consult SMC.

