

One-touch Fittings Series KJ

Guide 1

Guide 2

Accepts nylon and polyurethane tubes.

Has large retaining force.

Packing

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

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

Gasket

Release button (Light gray)

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.

Unique shape allows easy tube release.

Tube

Body (White)

O ring

Stud

Effective when piping in a confined space.

- The body and threaded portion can turn independently.
- Stud is electroless nickel plated.
- Standard with preapplied thread sealant.

PAT.PEND

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

Thread sealant is standard

Possible to use in application where copper-free material is required

Possible to use in vacuum to -100KPa

Applicable Tubing

Tube material	Nylon, Soft nylon, Polyurethane
Tube O.D.	Φ 3.2, Φ 4, Φ 6

Specifications

Operating fluid		Air, Water ⁽¹⁾
Max. Operating pressure		1.0MPa
Max. operating vacuum pressure		-100kPa
Proof pressure		3.0MPa
Ambient and fluid temperature		-5 to 60 °C, (Water: 0 to 40 °C) (No freezing)
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 (Standard)
Copper-free specification		All brass part with electroless nickel plated

Note1) Applicable for general industry water.
Surge pressure must be under the max. operating pressure.

Component Materials

Body	Stainless steel (SUS303), C3604BD, PBT
Stud	C3604BD (Thread portion)
Chuck, Guide 2	Stainless steel (SUS304)
Release button, Guide 1	Polyacetal (POM)
Packing, O ring	NBR
Gasket	SUS304, NBR



Male connector: KJH

<M3,M5>

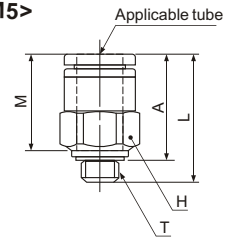


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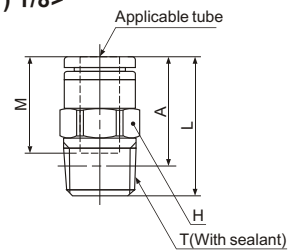


Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	L	A	M	Effective area(mm ²)		Weight (g)
							Nylon	Urethane	
3.2	M3	KJH23-M3	7	16.3	13.7	12.7	0.9	0.9	1.6
	M5	KJH23-M5		16.7	13.6				2
	R(PT)1/8	KJH23-01S	10	13.8	9.8*		3	2.5	4.7
4	M3	KJH04-M3	8	16.3	13.7	12.7	0.9	0.9	1.9
	M5	KJH04-M5		17	13.9		4	4	24.
	R(PT)1/8	KJH04-01S	10	14.8	10.8*				4.6
6	M5	KJH06-M5	10	17.8	14.7	13.5	4	4	3.3
	R(PT)1/8	KJH06-01S		19.4	15.4*		10	10	5.2

<M3,M5>



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Hexagon socket head male connector: KJS

<M3,M5>



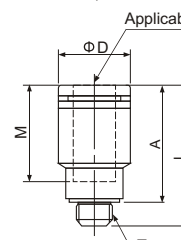
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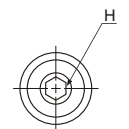
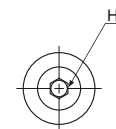
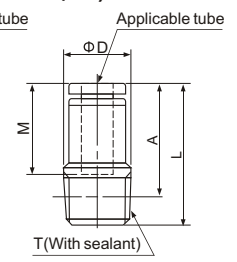
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	ΦD ⁽¹⁾	L	A	M	Effective area(mm ²)		Weight (g)
								Nylon	Urethane	
3.2	M3	KJS23-M3	1.5	7	16.3	13.7	12.7	1.4	1.4	1.3
	M5	KJS23-M5	2		19.7	16.6		2.5	2.5	2.8
4	M3	KJS04-M3	1.5	8	16.3	13.7	12.7	1.4	1.4	1.6
	M5	KJS04-M5	2.5		18.7	15.6		4	4	2.7
	R(PT)1/8	KJS04-01S	3	9.8	19.7	15.7*				5.4
6	M5	KJS06-M5	2.5	10	19.5	16.4	13.5	4	4	3.3
	R(PT)1/8	KJS06-01S	4		20	16*		10	10	5.2

Note1) ΦD: max. diameter

<M3,M5>



<R(RT) 1/8>

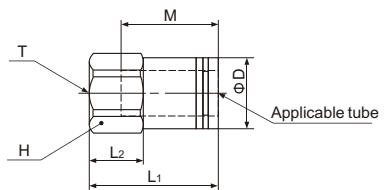


Female connector: KJF



Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	ΦD ⁽¹⁾	L ₁	L ₂	M	Effective area(mm ²)		Weight (g)
								Nylon	Urethane	
3.2	M3	KJF23-M3	7	7	16.5	6.8	12.7	3	2.5	2.6
	M5	KJF23-M5			18.8	7.9				2.8
4	M3	KJF04-M3	8	8	16.1	6.4	12.7	4	4	3.2
	M5	KJF04-M5			18.7	7.8				3.8
6	M5	KJF06-M5	10	10	18	7.5	13.5	10	10	5.3

Note1) ΦD: max. diameter

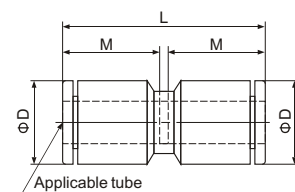


Female connector: KJH



Tube O.D. (mm)	Part Number	ΦD ⁽¹⁾	L	M	Effective area(mm ²)		Weight (g)
					Nylon	Urethane	
3.2	KJH23-00	8.4	26.3	12.7	3	2.5	1.4
4	KJH04-00	9.3	26.3	12.7	4	4	1.7
6	KJH06-00	11.6	28	13.5	10	10	2.5

Note1) ΦD: max. Diameter



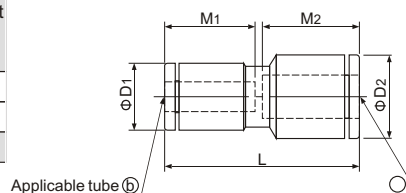
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Different diameter straight: KJH



Tube O.D. (mm)		Part No.	$\Phi D_1^{(1)}$	$\Phi D_2^{(1)}$	L	M ₁	M ₂	Effective area(mm ²)		Weight (g)
a	b							Nylon	Urethane	
3.2	4	KJH23-04	8.4	9.3	26.3	12.7	12.7	3	2.5	1.6
	6	KJH23-06		11.6	27.2					2
4	6	KJH04-06	9.3	11.6	27.2	12.7	13.5	4	4	2.2

Note1) $\Phi D_1, \Phi D_2$: max. diameter



Male elbow: KJL

<M3,M5>



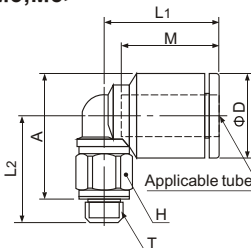
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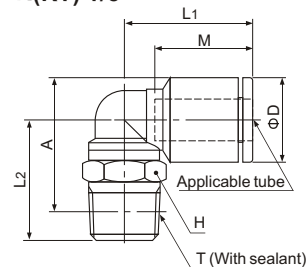
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	$\Phi D^{(1)}$	L ₁	L ₂	A	M	Effective area(mm ²)		Weight (g)
									Nylon	Urethane	
3.2	M3	KJL23-M3	7	8.4	15.3	12.5	14.1	12.7	0.8	0.8	2.1
	M5	KJL23-M5				13.2	14.3		2.6	2.2	2.5
	R(PT)1/8	KJL23-01S	10			15.2	15.4*		3.5	3.5	6.7
4	M3	KJL04-M3	7	9.3	15.6	13	15.1	12.7	0.8	0.8	2.2
	M5	KJL04-M5				13.7	15.3		3.5	3.5	2.7
	R(PT)1/8	KJL04-01S	10			15.7	16.4		9	9	6.8
6	M5	KJL06-M5	7	11.6	16.1	14.7	17.4	13.5	3.5	3.5	3.2
	R(PT)1/8	KJL06-01S	10		17.8	16.7	18.5*		9	9	6.4

Note1) ΦD : max. diameter

<M3,M5>



<R(RT) 1/8>

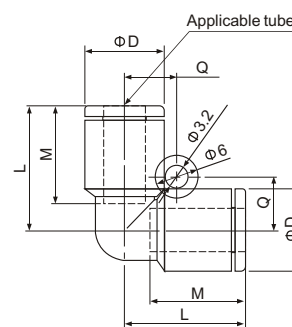


Union elbow: KJL



Tube O.D. (mm)	Part No.	$\Phi D^{(1)}$	L	Q	M	Effective area(mm ²)		Weight (g)
						Nylon	Urethane	
3.2	KJL23-00	8.4	15	5.8	12.7	2.6	2.2	1.6
4	KJL04-00	9.3	15.8	6.3	12.7	3.5	3.5	2
6	KJL06-00	11.6	17.1	7.3	13.5	9	9	3.1

Note1) ΦD : max. diameter

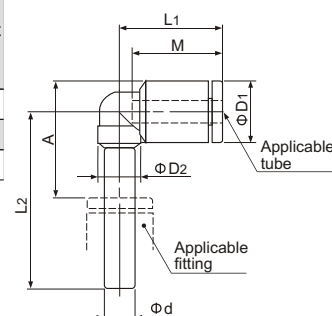


Plug-in elbow: KJL



Tube O.D. (mm)	Fitting size Φd	Part No.	$\Phi D_1^{(1)}$	ΦD_2	L ₁	L ₂	A	M	Effective area(mm ²)		Weight (g)
									Nylon	Urethane	
3.2	3.2	KJL23-99	8.4	6	14.5	23.8	15.3	12.7	2.6	2.2	1
4	4	KJL04-99	9.3	6	15.6	24.7	16.7	12.7	3.5	3.5	1.2
6	6	KJL06-99	11.6	7	16.3	26.8	19.1	13.5	9	9	2

Note1) ΦD_1 : max. diameter

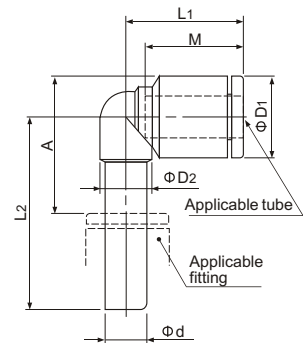


Reducer elbow: KJL



Tube O.D. (mm)	Fitting size Φd	Part No.	ΦD ₁ ⁽¹⁾	ΦD ₂	L ₁	L ₂	A	M	Effective area(mm ²)		Weight (g)
									Nylon	Urethane	
3.2	4	KJL23-04	8.4	6	14.5	24.3	15.8	12.7	2.6	2.2	1.1
	6	KJL23-06				25.3	16				1.2
4	6	KJL04-06	9.3	6	15.6	25.7	16.9	12.7	3.5	3.5	1.4

Note1) ΦD₁: max. diameter



Extended male elbow: KJW

<M3,M5>



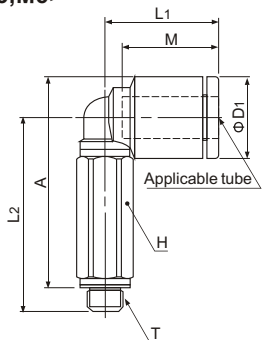
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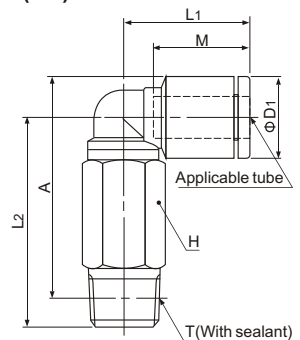
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	ΦD ₁ ⁽¹⁾	L ₁	L ₂	A	M	Effective area(mm ²)		Weight (g)
									Nylon	Urethane	
3.2	M3	KJW23-M3	7	8.4	15.3	22.5	24.1	12.7	0.8	0.8	5
	M5	KJW23-M5	7			25.2	26.3		2.6	2.2	6.2
	R(PT)1/8	KJW23-01S	10			25.2	25.4*		2.6	2.2	13.4
4	M3	KJW04-M3	7	9.3	15.6	23	25.1	12.7	0.8	0.8	5.1
	M5	KJW04-M5	7			25.7	27.3		3.5	3.5	6.4
	R(PT)1/8	KJW04-01S	10			25.7	26.4*		3.5	3.5	13.6
6	M5	KJW06-M5	7	11.6	16.1	26.7	29.4	13.5	3.5	3.5	6.9
	R(PT)1/8	KJW06-01S	10		17.8	28.7	30.5*		9	9	13.2

Note1) ΦD: max. diameter

<M3,M5>



<R(RT) 1/8>



Male branch tee: KJT

<M3,M5>



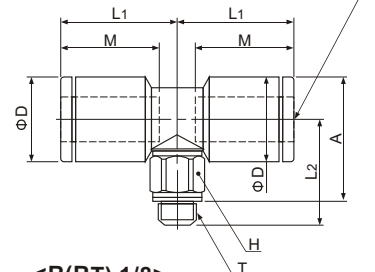
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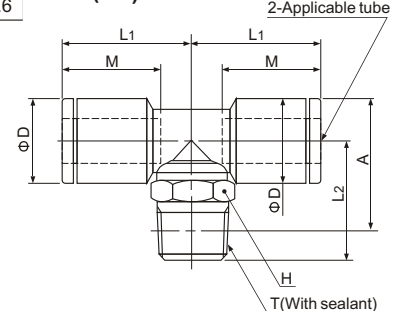
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	ΦD ₁ ⁽¹⁾	L ₁	L ₂	A	M	Effective area(mm ²)		Weight (g)
									Nylon	Urethane	
3.2	M3	KJT23-M3	7	8.4	15.3	12.5	14.1	12.7	0.9	0.9	2.8
	M5	KJT23-M5	7			13.2	14.3		3.2	2.7	3.2
	R 1/8	KJT23-01S	10			15.2	15.4*		3.2	2.7	7.4
4	M	KJT04-M3	7	9.3	15.6	13	15.1	12.7	0.9	0.9	3.1
	M	KJT04-M5	7			13.7	15.3		4.5	4.5	3.5
	R(PT)1/8	KJT04-01S	10			15.7	10.4*		4.5	4.5	7.7
6	M5	KJT06-M5	7	11.6	16.1	14.7	17.4	13.5	4.5	4.5	4.4
	R(PT)1/8	KJT06-01S	10		17.8	16.7	18.5*		11	11	7.6

Note1) ΦD: max. diameter

<M3,M5>



<R(RT) 1/8>



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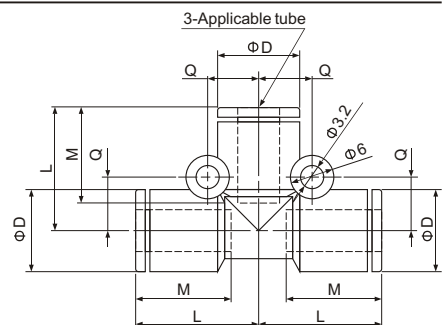
Series KJ

Union tee: KJT



Tube O.D. (mm)	Part No.	$\Phi D_1^{(1)}$	L	Q	M	Effective area(mm ²)		Weight (g)
						Nylon	Urethane	
3.2	KJT23-00	8.4	15	5.8	12.7	3.2	2.7	2.5
4	KJT04-00	9.3	15.8	6.3	12.7	4.5	4.5	3
6	KJT06-00	11.6	17.1	7.3	13.5	11	11	4.6

Note1) ΦD : max. diameter

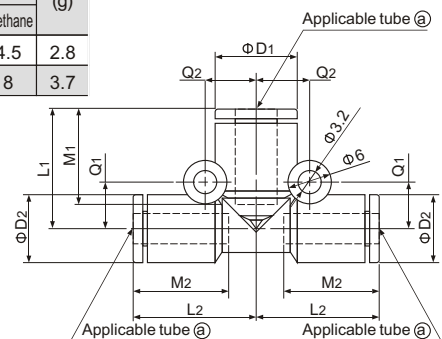


Different diameter.tee: KJT



Tube O.D. (mm)		Part No.	$\Phi D_1^{(1)}$	$\Phi D_2^{(1)}$	L ₁	L ₂	Q ₁	Q ₂	M ₁	M ₂	Effective area(mm ²)		Weight (g)
											Nylon	Urethane	
3.2	4	KJT23-04	9.3	8.4	15.3	15.8	5.8	6.3	12.7	12.7	4.5	4.5	2.8
4	6	KJT04-06	11.6	9.3	16.6	16.8	6.3	7.3	13.5	12.7	8	8	3.7

Note1) $\Phi D_1, D_2$: max. diameter



Male run tee: KJY

<M3,M5>



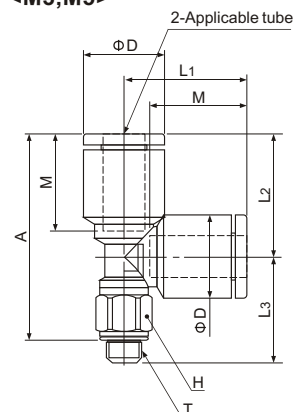
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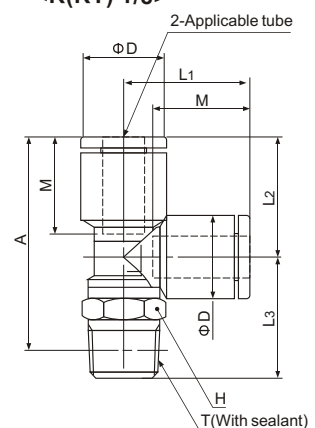
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	$\Phi D^{(1)}$	L ₁	L ₂	L ₃	A	M	Effective area(mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M3	KJY23-M3	7	8.4	15.4	14.8	12.5	24.7	12.7	0.9	0.9	2.8
	M5	KJY23-M5	7							3.2	2.7	3.2
	R(PT)1/8	KJY23-01S	10							3.2	2.7	7.4
4	M3	KJY04-M3	7	9.3	15.6	14.8	13	25.2	12.7	0.9	0.9	3.1
	M5	KJY04-M5	7							4.5	4.5	3.5
	R(PT)1/8	KJY04-01S	10							4.5	4.5	7.7
6	M5	KJY06-M5	7	11.6	17.1	17.1	14.7	28.7	13.5	4.5	4.5	4.5
	R(PT)1/8	KJY06-01S	10							11	11	7.5

Note1) ΦD : max. diameter

<M3,M5>



<R(RT) 1/8>



One-touch Fittings

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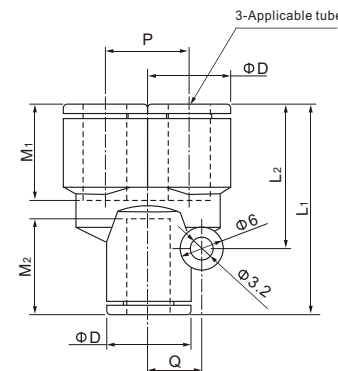
GRIPPER
SYSTEMS S.R.O.

Union "Y": KJU



Tube O.D. (mm)	Part No.	$\Phi D_1^{(1)}$	L_1	L_2	P	Q	M_1	M_2	Effective area(mm ²)		Weight (g)
									Nylon	Urethane	
3.2	KJU23-00	8.4	28.5	19	8.4	5.8	12.7	12.9	3.2	2.7	2.6
4	KJU04-00	9.3	27.9	18.3	9.3	6.3	12.7	12.9	4.5	4.5	3
6	KJU06-00	11.6	31.2	21.6	11.6	7.3	13.5	13.7	11	11	4.7

Note1) ΦD : max. diameter

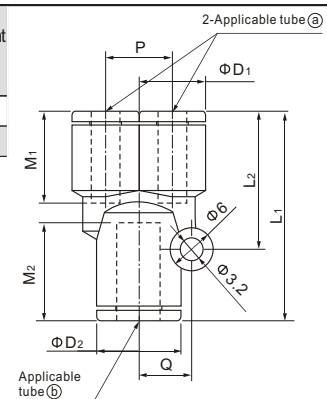


Different diameter. Union "Y": KJU



Tube O.D. (mm)		Part No.	$\Phi D_1^{(1)}$	$\Phi D_2^{(1)}$	L_1	L_2	P	Q	M_1	M_2	Effective area(mm ²)		Weight (g)
a	b										Nylon	Urethane	
3.2	4	KJU23-04	8.4	9.3	27.5	18.3	8.4	6.3	12.7	12.9	4.5	4.5	2.7
4	6	KJU04-06	9.3	11.6	29.2	19.3	9.3	7.3	12.7	13.7	8	8	3.7

Note1) $\Phi D_1, D_2$: max. diameter

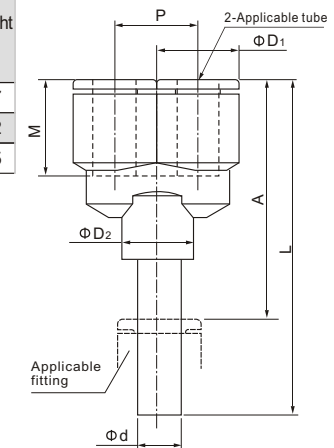


Plug-in "Y": KJU



Tube O.D. (mm)	Fittings size Φd	Part No.	$\Phi D_1^{(1)}$	ΦD_2	L	P	A	M	Effective area(mm ²)		Weight (g)
									Nylon	Urethane	
3.2	3.2	KJU23-99	8.4	10	43.5	8.4	34.1	12.7	3.2	2.7	2.7
4	4	KJU04-99	9.3	10	44.7	9.3	35.3	12.7	4.5	4.5	3.2
6	6	KJU06-99	11.6	10	47.8	11.6	37.6	13.5	11	11	4.5

Note1) ΦD_1 : max. diameter

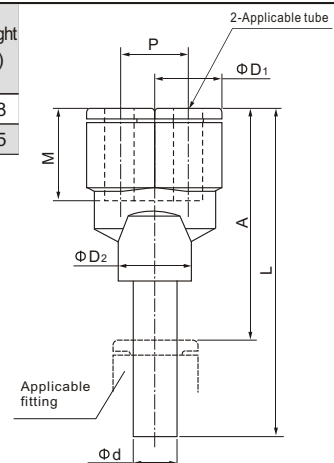


Reducer union plug-in "Y": KJX



Tube O.D. (mm)	Fittings size Φd	Part No.	$\Phi D_1^{(1)}$	ΦD_2	L	P	A	M	Effective area(mm ²)		Weight (g)
									Nylon	Urethane	
3.2	4	KJX23-04	8.4	10	44	8.4	34.6	12.7	4.5	4.5	2.8
4	6	KJX04-06	9.3	10	45.7	9.3	35.5	12.7	8	8	3.5

Note1) ΦD : max. diameter



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Branch "Y": KJU

<M5>



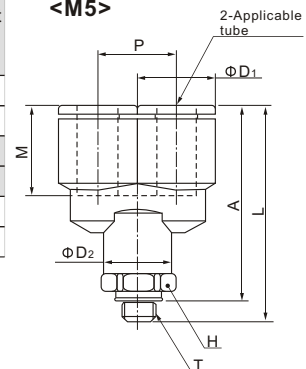
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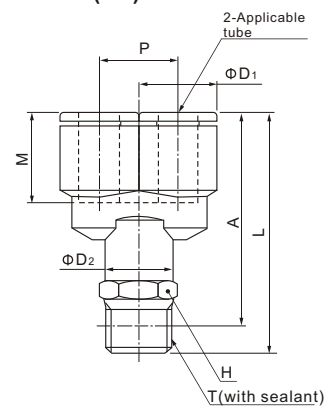
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	$\Phi D_1^{(1)}$	ΦD_2	L	P	A	M	Effective area(mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M5	KJU23-M5	10	8.4	10	30.6	8.4	27.5	12.7	2.2	2.2	5.9
	R(PT)1/8	KJU23-01S								3.2	2.7	8.3
4	M5	KJU04-M5	10	9.3	10	31.3	9.3	28.2	12.7	2.2	2.2	6.4
	R(PT)1/8	KJU04-01S								4.5	4.5	8.8
6	M5	KJU06-M5	10	11.6	10	33.4	11.6	30.3	13.5	2.2	2.2	7.4
	R(PT)1/8	KJU06-01S								11	11	9.9

Note1) ΦD_1 : max. diameter

<M5>



<R(PT)1/8>

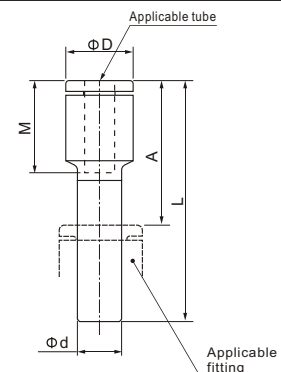


Plug-in reducer: KJR



Tube O.D. (mm)	Fittings size Φd	Part No.	$\Phi D^{(1)}$	L	A	M	Effective area(mm ²)		Weight (g)
							Nylon	Urethane	
3.2	4	KJR23-04	8.4	32	19.3	12.7	3	2.5	0.9
	6	KJR23-06		33	19.5				1.1
4	6	KJR04-06	9.3	33.5	20	12.7	4	4	1.3

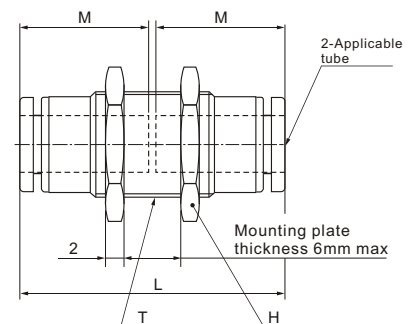
Note1) ΦD : max. diameter



Bulkhead union: KJE



Tube O.D. (mm)	Part No.	T	H (Hex.)	L	Mounting hole	M	Effective area(mm ²)		Weight (g)
							Nylon	Urethane	
3.2	KJE23-00	M8 × 0.75	10	26	9	12.7	3	2.5	4.6
4	KJE04-00	M9 × 0.75	11	26	10	12.7	4	4	5.6
6	KJE06-00	M11 × 0.75	14	27.7	12	13.5	10	10	8.5



◆ How to Order

KQ 2 H 06 — 01 S

With thread seal

Nil	None	S	With thread seal
-----	------	---	------------------

Note: Port size with seal: Only R1/8, R1/4, R3/8, R1/2

Port size/Applicable tubing O.D.

Thread connection	M5	M5 × 0.8	Tubing (Rod) connection	00	Same dia.tubing	(Reducer) Different dia. Tubing
	M6	M6 × 1.0		04	Φ 4	
	01	R1/8, Rc1/8		06	Φ 6	
	02	R1/4, Rc1/4		08	Φ 8	
	03	R3/8, Rc3/8		10	Φ 10	
	04	R1/2, Rc1/2		12	Φ 12	
				16	Φ 16	
				99	Same dia.rod	

Applicable tubing O.D.

23	Φ 3.2	04	Φ 4	06	Φ 6	08	Φ 8
10	Φ 10	12	Φ 12	16	Φ 16		

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
L	Male elbow	TY	Different diameter cross
	Union elbow	Y	Male run tee
	Plug-in elbow	D	Male delta union
	Reducer elbow		Delta union
LU	Male branch connector	U	Branch
	Branch union elbow		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	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		

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

Product's color

Symbol	Body	Release button
2	White	Light gray

One-touch fittings

One-touch Fittings Series KQ2

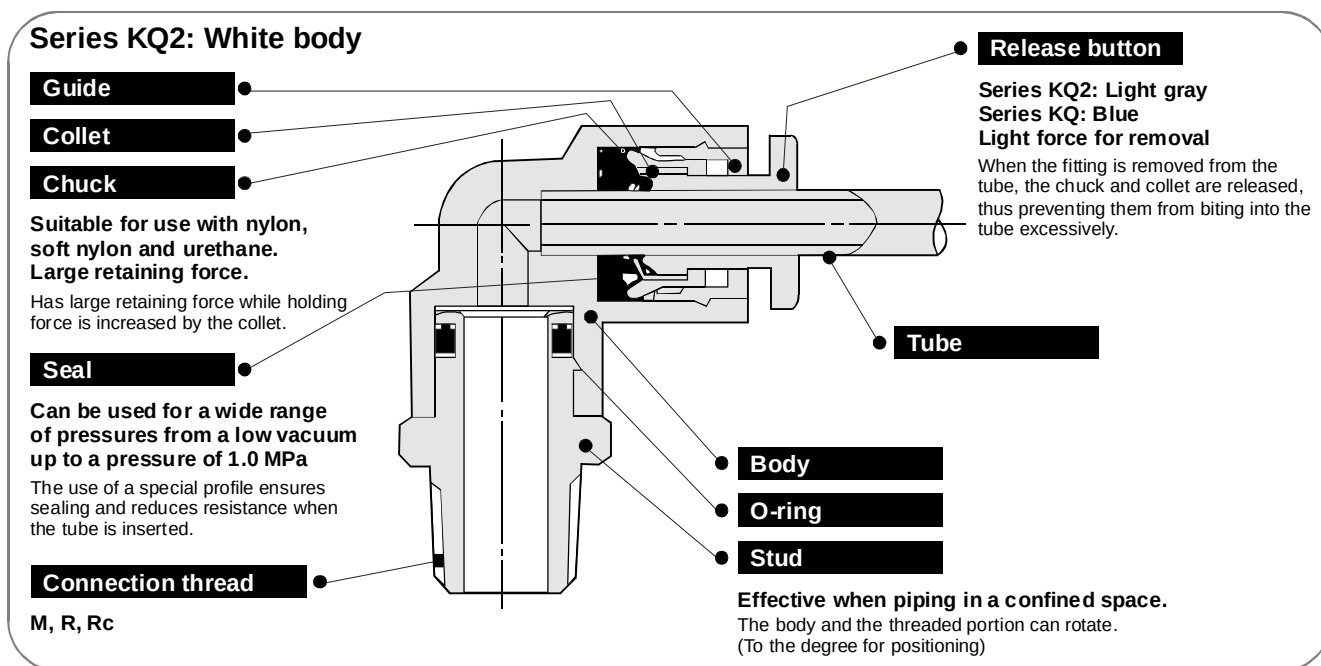
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◆ Accessory

Symbol	KQ2N	KQ2N	KQ2C	KQ2P
Name	Nipple	Adaptor	Tube cap	Plug (White)

Use the below part number to order the gasket for M5 and M6 threads.

Gasket for M5 thread: M-5G2 Gasket for M6 thread: M-6G



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.	Φ 3.2, Φ 4, Φ 6, Φ 8, Φ 10, Φ 12, Φ 16

◆ Product's Color

Series	Body	Release button
Series KQ2	White	Light gray

◆ 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	-5~60℃, Water: 0~40℃ (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 AIRBEST if using for other kinds of fluid.

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

IV

KQ2

BP

APF

APN

APK

APB

QC

Y

YQS
Silencer

AS

RQ

Tube

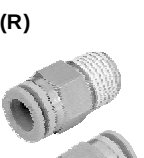
Air gun

CV

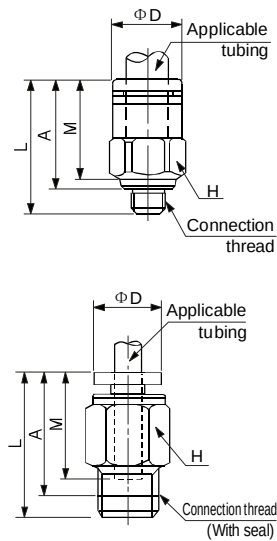
One-touch Fittings

Series KQ2

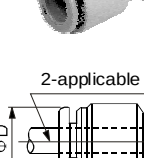
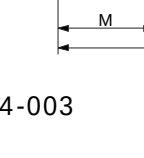
Male Connector: KQ2H

(M5, M6)	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	L	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
	3.2	M5×0.8	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	M5×0.8	KQ2H04-M5	8	8	17	13.9	12.7	4	4	2.4
		M6×1.0	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
	6	1/4	KQ2H04-02S	14	-	19.5	13.5	16	5.6	4	16
		M5×0.8	KQ2H06-M5	10	10	17.8	14.7	13.5	4	4	3.3
		M6×1.0	KQ2H06-M6	10	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	14	-	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	KQ2H12-04S	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	-	30	23.5	22	58.3	46.1	34
	16	1/2	KQ2H12-04S	22	-	30	22	22	58.3	46.1	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	25	113	(96)	47

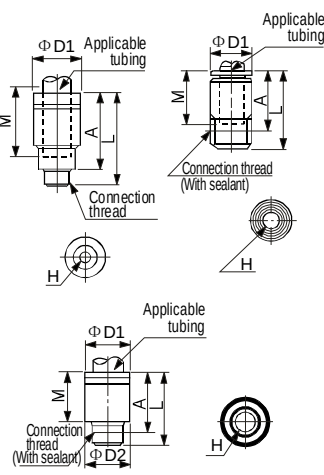
Use to pipe in the same direction from female thread. Most general style.



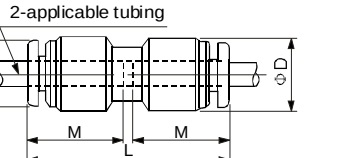
Hexagon Socket Head Male Connector: KQ2S

(R)	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	L	A	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
	4	M5×0.8	KQ2S04-M5	2.5	8	-	18.7	15.6	12.7	4	4	2.7
		M6×1.0	KQ2S04-M6	3	8	-	18.2	14.1	12.7	4	4	2.8
		1/8	KQ2S04-01S	3	9.8	-	23	19	16	4.1	3.6	8
	6	M5×0.8	KQ2S06-M5	2.5	10	-	19.5	16.4	13.5	4	4	3.3
		M6×1.0	KQ2S06-M6	3	10	-	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	14	-	25.5	19.5	18.5	23.3	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	17	-	27.5	21.5	21	39.0	26.6	12
	12	3/8	KQ2S10-03S	8	17	-	27.5	21	21	39.0	26.6	19
		1/2	KQ2S10-04S	8	22	-	28	20	21	39.0	26.6	35
		1/4	KQ2S12-02S	8	19	-	33.5	27.5	22	46.0	44.5	23
	16	3/8	KQ2S12-03S	10	19	-	29	22.5	22	60.0	44.5	18
		1/2	KQ2S12-04S	10	22	-	28	20	22	60.0	44.5	30
		3/8	KQ2S16-03S	10	25.7	24	39	32.5	25	81	(81)	42
	16	1/2	KQ2S16-04S	12	25.7	24	35	27	25	113	(96)	34

Internal hex. allows thread connection by using an allen wrench for confined spaces.



Straight Union: KQ2H

	Applicable tubing O.D. (mm)	Model	Φ D1	L	M	Effective 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

Use to connect tubes in the same direction.

One-touch Fittings Series KQ2

GRIPPER
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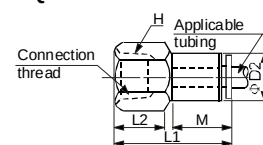
Female Connector: KQ2F



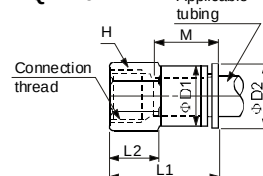
Applicable tubing O.D. (mm)	Connection thread Rc	Model	H (width across flats)	Φ D1	Φ D2	L1	L2	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
4	1/8	KQ2F04-01	14	-	10	27	11	16	5.6	4	15
	1/4	KQ2F04-02	17	-	10	31	14	16	5.6	4	23
	1/8	KQ2F06-01	14	-	12	27.5	11	17	13.1	10.4	15
6	1/4	KQ2F06-02	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
	1/8	KQ2F08-01	14	-	14	29	11	18.5	26.1	18.0	17
8	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

Use to pipe from male thread such as pressure gauge.

KQ2F04 to 12



KQ2F16



IV

KQ2

BP

APF

APN

APK

APB

QC

Y

YQS

Silencer

AS

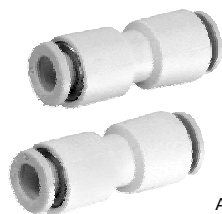
RQ

Tube

Air gun

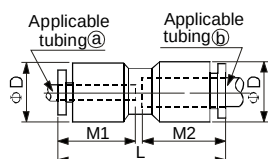
CV

Different Diameter Straight: KQ2H



Applicable tubing O.D. (mm)		Model	Φ D	L	M1	M2	Effective 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

Use to connect different sized tubes



Male Elbow: KQ2L

(M5)



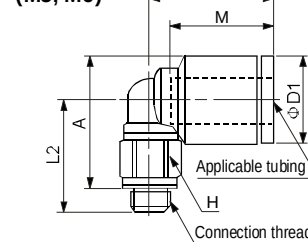
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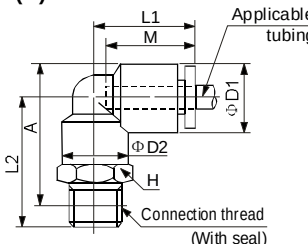
Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	L1	L2	A	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M5×0.8	KQ2L23-M5	7	8.5	-	15.3	13.2	14.3	12.7	2.6	2.2	2.5
	1/8	KQ2L23-01S	10	9.6	10	17.5	21.5	22.5	15.5	3	2.5	8
	1/4	KQ2L23-02S	14	9.6	10	17.5	25.5	24.5	15.5	3	2.5	18
4	M5×0.8	KQ2L04-M5	7	9.3	-	15.6	13.7	15.3	12.7	3.5	3.5	2.7
	M6×1.0	KQ2L04-M6	8	9.3	-	15.6	14.7	15.3	12.7	3.5	3.5	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	10.4	10	18	26	25	16	4.2	4.2	19
	M5×0.8	KQ2L06-M5	7	11.6	-	16.1	14.7	17.4	13.5	3.5	3.5	3.2
	M6×1.0	KQ2L06-M6	8	11.6	-	16.1	15.7	17.4	13.5	3.5	3.5	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	12.8	10	20	27	27.5	17	11.4	9.0	22
	3/8	KQ2L06-03S	17	12.8	10	20	29	29	17	11.4	9.0	33
10	1/8	KQ2L08-01S	12	15.2	12	23	24.4	28	18.5	21.6	14.9	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	15.2	12	23	30.5	31.5	18.5	21.6	14.9	35
12	1/8	KQ2L10-01S	17	18.5	17	26.5	27	32	21	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	17	18.5	17	26.5	32	34.5	21	35.2	25.0	36
16	1/2	KQ2L10-04S	22	18.5	17	26.5	36	37	21	35.2	25.0	63
	1/4	KQ2L12-02S	17	20.9	17	28.5	31	35.5	22	50.2	39.7	28
	3/8	KQ2L12-03S	17	20.9	17	28.5	33	37	22	50.2	39.7	38
16	1/2	KQ2L12-04S	22	20.9	17	28.5	37	39.5	22	50.2	39.7	65
	3/8	KQ2L16-03S	22	26.5	20.9	34	38	44.5	25	71	(71)	101
16	1/2	KQ2L16-04S	22	26.5	20.9	34	41	46	25	100	(84)	105

Use to pipe at right angles to female thread. Most general style.

(M5, M6)



(R)



One-touch Fittings

Series KQ2

Male Branch Connector: KQ2LU

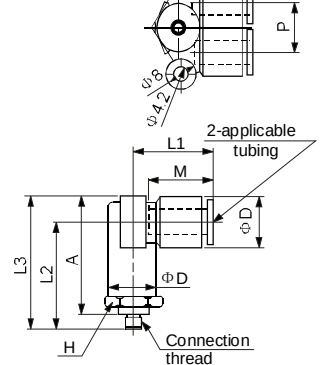
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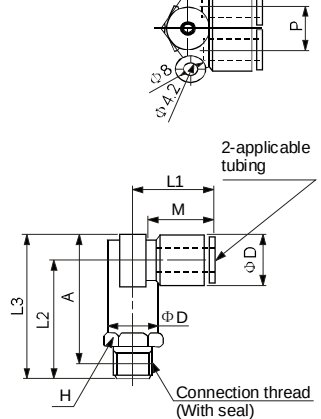
Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ΦD	L1	L2	L3	A	M	P	Effective area (mm²)		Weight (g)
											Nylon	Urethane	
4	M5×0.8	KQ2LU04-M5	11	10.4	18.5	24	29.5	25.5	16	10.4	4.3	4.1	10
	M6×1.0	KQ2LU04-M6	11	10.4	18.5	24.5	30	25.5	16	10.4	4.3	4.1	10
	1/8	KQ2LU04-01S	11	10.4	18.5	26.5	32	27.5	16	10.4	6.0	4.1	12
	1/4	KQ2LU04-02S	14	10.4	18.5	30.5	36	30	16	10.4	6.0	4.1	21
6	M5×0.8	KQ2LU06-M5	13	12.8	21	26.5	33	29.5	17	12.8	4.3	4.3	13
	M6×1.0	KQ2LU06-M6	13	12.8	21	27	33.5	29.5	17	12.8	4.3	4.3	13
	1/8	KQ2LU06-01S	13	12.8	21	29.5	36	32	17	12.8	13.9	11.0	15
	1/4	KQ2LU06-02S	14	12.8	21	33	39.5	33.5	17	12.8	13.9	11.0	22
8	3/8	KQ2LU06-03S	17	12.8	21	35	41.5	35	17	12.8	13.9	11.0	35
	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	17	15.2	24	37	44.5	38.5	18.5	15.2	26.3	18.2	27
	3/8	KQ2LU08-03S	17	15.2	24	38	45.5	39	18.5	15.2	26.3	18.2	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	19	18.5	27	41	50.5	44	21	18.5	40.8	29.0	42
	1/2	KQ2LU10-04S	22	18.5	27	44.5	54	45.5	21	18.5	40.8	29.0	64
	1/4	KQ2LU12-02S	22	20.9	29	42.5	53	47	22	20.9	57.2	45.2	57
12	3/8	KQ2LU12-03S	22	20.9	29	43.5	54	47.5	22	20.9	57.2	45.2	58
	1/2	KQ2LU12-04S	22	20.9	29	46.5	57	49	22	20.9	57.2	45.2	65

Use to branch piping at right angles to female thread.

(M5, M6)



(R)



45° Male Elbow: KQ2K

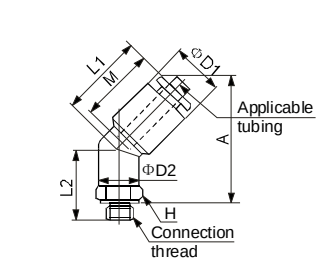
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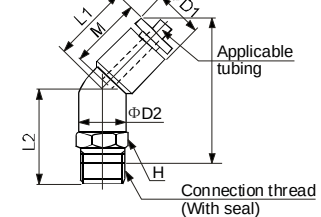
Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ΦD1	ΦD2	L1	L2	A	M	Effective area (mm²)		Weight (g)
										Nylon	Urethane	
4	M5×0.8	KQ2K04-M5	8	10.4	8	17	14.5	26	16	3.4	3.4	4
	M6×1.0	KQ2K04-M6	8	10.4	8	17	15	26	16	3.4	3.4	5
	1/8	KQ2K04-01S	10	10.4	10	17	20.5	32	16	3.4	3.4	10
	1/4	KQ2K04-02S	14	10.4	10	17	24.5	34	16	3.4	3.4	19
6	M5×0.8	KQ2K06-M5	8	12.8	8	18	14.5	27.5	17	3.4	3.4	6
	M6×1.0	KQ2K06-M6	8	12.8	8	18.5	15	27.5	17	3.4	3.4	5
	1/8	KQ2K06-01S	10	12.8	10	18	20.5	33	17	8.7	6.9	12
	1/4	KQ2K06-02S	14	12.8	10	18	24.5	35	17	8.7	6.9	10
8	3/8	KQ2K06-03S	17	12.8	10	18	26.5	36.5	17	8.7	6.9	33
	1/8	KQ2K08-01S	12	15.2	12	20.5	22	37	18.5	19.7	19.7	13
	1/4	KQ2K08-02S	14	15.2	12	20.5	26	39	18.5	19.7	19.7	21
	3/8	KQ2K08-03S	17	15.2	12	20.5	28	41	18.5	19.7	19.7	35
10	1/8	KQ2K10-01S	17	18.5	17	24	24	42	21	30.9	23.2	25
	1/4	KQ2K10-02S	17	18.5	17	24	27	43.5	21	30.9	23.2	26
	3/8	KQ2K10-03S	17	18.5	17	24	29	45	21	30.9	23.2	36
	1/2	KQ2K10-04S	22	18.5	17	24	33	47.5	21	30.9	23.2	63
12	1/4	KQ2K12-02S	17	20.9	17	25	27.5	45.5	22	44.5	35.1	28
	3/8	KQ2K12-03S	17	20.9	17	25	29.5	47.5	22	44.5	35.1	38
	1/2	KQ2K12-04S	22	20.9	17	25	33.5	49.5	22	44.5	35.1	65
	3/8	KQ2K16-03S	22	26.5	20.9	30	32	55	25	65.8	(65.8)	52
16	1/2	KQ2K16-04S	22	26.5	20.9	30	35	56.5	25	91.9	(78.3)	58

Use to pipe in 45° direction from female thread. Model in-between of male connector and male elbow.

(M5, M6)



(R)



One-touch Fittings

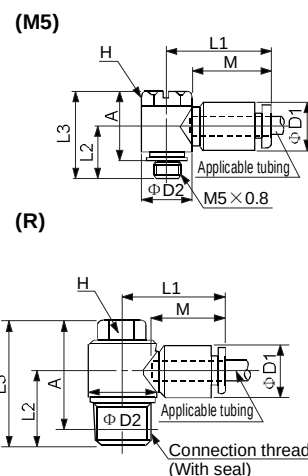
Series KQ2

GRIPPER
SYSTEMS S.R.O.

Universal Male Elbow: KQ2V

(R)	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ΦD1	ΦD2	L1	L2	L3	A	M	Effective area (mm ²)		Weight (g)
												Nylon	Urethane	
	4	M5×0.8	KQ2V04-M5	8	10.4	9.8	20.5	11	18.5	15	16	2.9	2.9	6
		1/8	KQ2V04-01S	8	10.4	13.4	22	14.5	26.5	22.5	16	2.9	2.9	14
	6	M5×0.8	KQ2V06-M5	8	12.8	9.8	23.5	12	18.5	15	17	3.8	3.8	7
		1/8	KQ2V06-01S	8	12.8	13.4	24	14.5	26.5	22.5	17	7.5	5.9	15
		1/4	KQ2V06-02S	10	12.8	15.4	23.5	18.5	31	25	17	7.5	5.9	26
		1/8	KQ2V08-01S	12	15.2	17.6	28.5	15.5	28.5	24.5	18.5	16	11.2	24
	8	1/4	KQ2V08-02S	12	15.2	17.6	28.5	18.5	31.5	25.5	18.5	16	11.2	30
		3/8	KQ2V08-03S	14	15.2	20.6	27.5	20.5	36.5	30	18.5	20.5	14.3	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	14	18.5	20.6	31	20.5	36.5	30	21	27	20.3	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	17	20.9	25.2	34	25	41.5	33.5	22	39	30.8	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	21	26.5	32.3	39	29.5	49.5	41.5	25	78	(65)	110

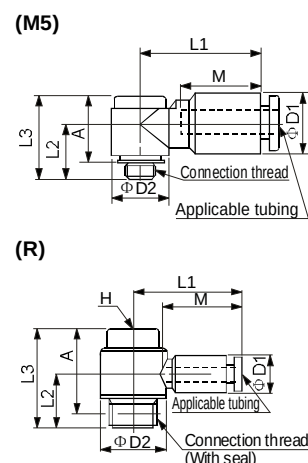
Universal male elbow allows thread connection by using a socket wrench for confined spaces.



Hexagon Socket Head Universal Male Elbow: KQ2VS

(R)	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ΦD1	ΦD2	L1	L2	L3	A	M	Effective area (mm ²)		Weight (g)
												Nylon	Urethane	
	4	M5×0.8	KQ2VS04-M5	4	10.4	9.8	20.5	10.5	18	15	16	2.9	2.9	6
		1/8	KQ2VS04-01S	6	10.4	13.4	22	14.5	26.5	22.5	16	2.9	2.9	14
	6	M5×0.8	KQ2VS06-M5	4	12.8	9.8	23.5	12	18	15	17	3.8	3.8	7
		1/8	KQ2VS06-01S	6	12.8	13.4	24	14.5	26.5	22.5	17	7.5	5.9	15
		1/4	KQ2VS06-02S	6	12.8	15.4	23.5	18.5	27	21	17	7.5	5.9	22
		1/8	KQ2VS08-01S	8	15.2	17.6	28.5	15.5	27	23	18.5	16	11.2	24
	8	1/4	KQ2VS08-02S	8	15.2	17.6	28.5	18.5	30	24	18.5	16	11.2	30
		3/8	KQ2VS08-03S	8	15.2	20.6	27.5	20.5	32.5	26	18.5	20.5	14.3	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	8	18.5	20.6	31	20.5	32.5	26	21	27	20.3	39
	12	3/8	KQ2VS12-03S	10	20.9	25.2	34	22	36	30	22	39	30.8	48
		1/2	KQ2VS12-04S	10	20.9	25.2	34	25	39	31	22	39	30.8	67

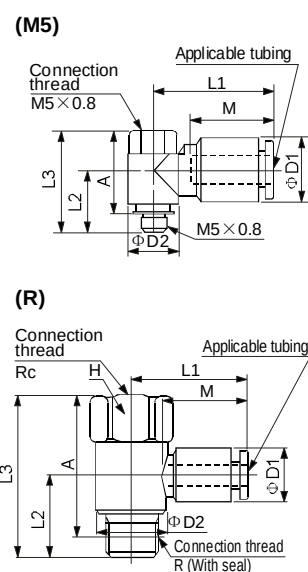
Hex. on the top allows thread connection by using an allen wrench for confined spaces.



Universal Female Elbow: KQ2VF

(R)	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ΦD1	ΦD2	L1	L2	L3	A	M	Effective area (mm ²)		Weight (g)
												Nylon	Urethane	
	4	M5×0.8	KQ2VF04-M5	8	10.4	9.8	20.5	11	20	16	16	2.9	2.9	6
		1/8	KQ2VF04-01S	14	10.4	13.4	22	15.5	29.5	25.5	16	16	19	19
	6	M5×0.8	KQ2VF06-M5	8	12.8	9.8	23.5	12.5	20	16	17	7	7	7
		1/8	KQ2VF06-01S	14	12.8	13.4	24.5	15.5	29.5	25.5	17	19	19	19
		1/4	KQ2VF06-02S	17	12.8	17.6	25	20	38.5	32.5	17	36	36	36
		1/8	KQ2VF08-01S	17	15.2	17.6	28.5	17	31	27	18.5	29	29	29
	8	1/4	KQ2VF08-02S	17	15.2	17.6	28.5	20	38.5	32.5	18.5	37	37	37
		3/8	KQ2VF08-03S	22	15.2	25.2	29.5	25.5	45.5	39	18.5	66	66	66
	10	1/4	KQ2VF10-02S	19	18.5	20.6	31.5	22	41	35	21	48	48	48
		3/8	KQ2VF10-03S	22	18.5	25.2	31.5	24.5	45.5	39	21	68	68	68
	12	3/8	KQ2VF12-03S	22	20.9	25.2	34	24.5	45.5	39	22	70	70	70
		1/2	KQ2VF12-04S	24	20.9	27	35	25.5	50	42	22	93	93	93

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



IV
KQ2
BP
APF
APN
APK
APB
QC
Y
YQS Silencer
AS
RQ
Tube
Air gun
CV

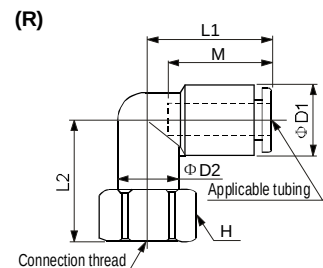
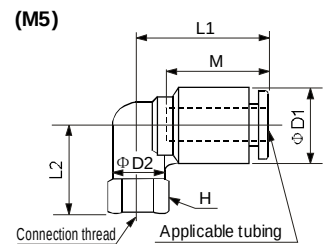
One-touch Fittings

Series KQ2

Female Elbow: KQ2LF

(R)	Applicable tubing O.D. (mm)	Connection thread Rc	Model	H (width across flats)	Φ D1	Φ D2	L1	L2	M	Effective area (mm²)		Weight (g)
										Nylon	Urethane	
	4	M5×0.8	KQ2LF04-M5	8	10.4	8	18.5	14.5	16	3.5	3.5	5
		M6×1.0	KQ2LF04-M6	8	10.4	8	18.5	15.5	16	3.5	3.5	5
		1/8	KQ2LF04-01	14	10.4	10	18.5	21	16	4.2	4.2	13
		1/4	KQ2LF04-02	17	10.4	10	18.5	24.5	16	4.2	4.2	20
	6	M5×0.8	KQ2LF06-M5	8	12.8	8	20.5	15	17	3.5	3.5	5
		M6×1.0	KQ2LF06-M6	8	12.8	8	20.5	16	17	3.5	3.5	6
		1/8	KQ2LF06-01	14	12.8	10	20.5	22	17	11.4	9.0	13
		1/4	KQ2LF06-02	17	12.8	10	20.5	25.5	17	11.4	9.0	20
	8	3/8	KQ2LF06-03	19	12.8	10	20.5	26	17	11.4	9.0	20
		1/8	KQ2LF08-01	14	15.2	12	23.5	23	18.5	21.6	14.9	16
		1/4	KQ2LF08-02	17	15.2	12	23.5	26.5	18.5	21.6	14.9	22
		3/8	KQ2LF08-03	19	15.2	12	23.5	27	18.5	21.6	14.9	23
	10	1/4	KQ2LF10-02	17	18.5	17	26.5	28	21	21.6	14.9	27
		3/8	KQ2LF10-03	19	18.5	17	26.5	28.5	21	35.2	25.0	27
		1/2	KQ2LF10-04	24	18.5	17	26.5	32.5	21	35.2	25.0	46
		1/4	KQ2LF12-02	17	20.9	17	28.5	29.5	22	50.2	39.7	29
	12	3/8	KQ2LF12-03	19	20.9	17	28.5	30	22	50.2	39.7	29
		1/2	KQ2LF12-04	24	20.9	17	28.5	34	22	50.2	39.7	48

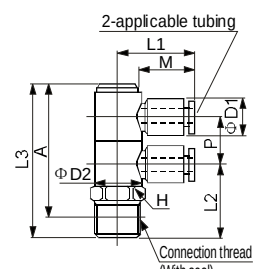
Use to pipe at right angles to male thread.



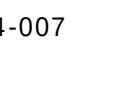
Double Universal Male Elbow: KQ2VD

	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	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	14	10.4	13.4	22	21.5	44	38	16	13.4	29
		3/8	KQ2VD04-03S	17	10.4	13.4	22	23.5	46	40	16	13.4	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	14	12.8	13.4	24.5	21.5	44	38	17	13.4	30
		3/8	KQ2VD06-03S	17	12.8	13.4	24.5	23.5	46	40	17	13.4	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	15.2	17.6	28.5	24	51	45	18.5	15.9	51
		3/8	KQ2VD08-03S	19	15.2	17.6	28.5	25	52	45.5	18.5	15.9	60
		1/2	KQ2VD08-04S	21	15.2	17.6	28.5	28.5	55.5	47.5	18.5	15.9	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	18.5	20.6	31.5	27.5	59	53	21	19.2	74
		1/2	KQ2VD10-04S	21	18.5	20.6	31.5	30.5	62	54	21	19.2	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	20.9	25.2	34	29.5	65.5	59	22	21.6	113
		1/2	KQ2VD12-04S	26	20.9	25.2	34	32.5	68.5	60	22	21.6	125

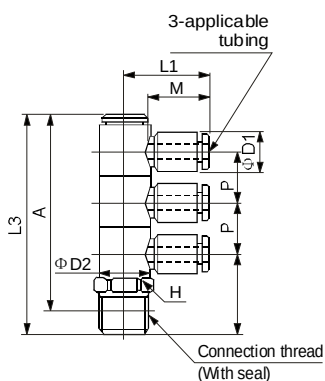
Use to branch line at right angles to female thread. Two individual parts rotate 360°.



Triple Universal Male Elbow: KQ2VT

	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	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	10.4	13.4	22	21.5	57.5	51.5	16	13.4	34
		3/8	KQ2VT04-03S	17	10.4	13.4	22	23.5	59.5	53.5	16	13.4	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	12.8	13.4	24.5	21.5	57.5	51.5	17	13.4	37
		3/8	KQ2VT06-03S	17	12.8	13.4	24.5	23.5	59.5	53.5	17	13.4	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	15.2	17.6	28.5	24	67	61	18.5	15.9	66
		3/8	KQ2VT08-03S	19	15.2	17.6	28.5	25	68	61.5	18.5	15.9	75
		1/2	KQ2VT08-04S	21	15.2	17.6	28.5	28.5	71.5	63.5	18.5	15.9	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	18.5	20.6	31.5	27.5	78.5	72	21	19.2	94
		1/2	KQ2VT10-04S	21	18.5	20.6	31.5	30.5	81.5	73.5	21	19.2	111
	12	1/4	KQ2VT12-02S	26	20.9	25.2	34	28.5	86	80	22	21.6	153
		3/8	KQ2VT12-03S	26	20.9	25.2	34	29.5	87	80.5	22	21.6	142
		1/2	KQ2VT12-04S	26	20.9	25.2	34	32.5	90	82	22	21.6	154

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



One-touch Fittings Series KQ2

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Branch Universal Male Elbow: KQ2Z

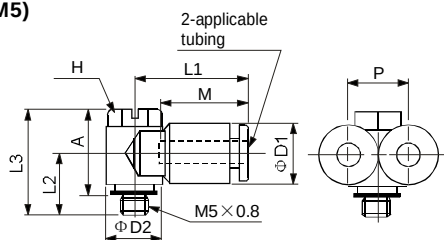
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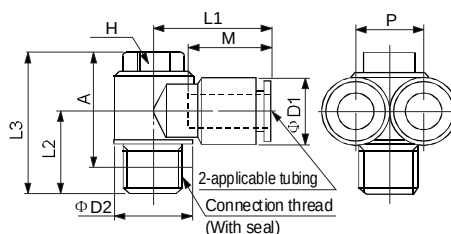
Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	L1	L2	L3	A	M	P	Effective area (mm²)		Weight (g)
												Nylon	Urethane	
4	M5 × 0.8	KQ2Z04-M5	8	10.4	9.8	19.5	11	18.5	15	16	10.4	3.4	3.4	8
	1/8	KQ2Z04-01S	8	10.4	13.4	21	14.5	26.5	22.5	16	10.4	4.7	4.7	16
6	1/8	KQ2Z06-01S	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	12.8	20.6	25.5	19.5	35.5	29.5	17	12.8	10.8	8.6	39
8	3/8	KQ2Z06-03S	14	12.8	20.6	25.5	20.5	36.5	30	17	12.8	10.8	8.6	47
	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
10	1/4	KQ2Z08-02S	12	15.2	17.6	26	18.5	31.5	25.5	18.5	15.2	20.5	14.2	33
	3/8	KQ2Z08-03S	14	15.2	20.6	27	20.5	36.5	30	18.5	15.2	20.5	14.2	49
12	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	18.5	20.6	29	20.5	35.5	30	21	18.5	31.8	22.6	54
12	3/8	KQ2Z12-03S	17	20.9	25.2	32.5	22	39	32.5	22	20.9	44.6	35.3	71
	1/2	KQ2Z12-04S	17	20.9	25.2	32.5	25	42	34	22	20.9	44.6	35.3	88

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

(M5)



(R)



Branch Universal Female Elbow: KQ2ZF

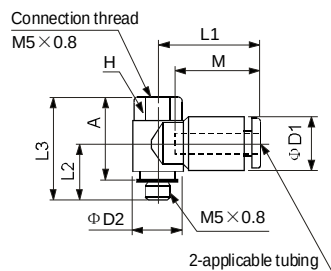
(R)



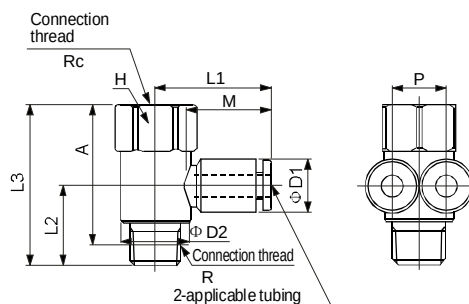
Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	L1	L2	L3	A	M	P	Weight (g)
4	M5 × 0.8	KQ2ZF04-M5	8	10.4	9.8	19.5	11	20	16.5	16	10.4	8
	1/8	KQ2ZF04-01S	14	10.4	13.4	21	15.5	29.5	25.5	16	10.4	21
6	1/8	KQ2ZF06-01S	14	12.8	13.4	22	15.5	29.5	25.5	17	12.8	21
	1/4	KQ2ZF06-02S	19	12.8	20.6	25.5	22	41	35	17	12.8	47
8	1/8	KQ2ZF08-01S	17	15.2	17.6	25.5	17	31	27	18.5	15.2	32
	1/4	KQ2ZF08-02S	19	15.2	20.6	27	22	41	35	18.5	15.2	49
10	1/4	KQ2ZF10-02S	19	18.5	20.6	29	22	41	35	21	18.5	54
	3/8	KQ2ZF10-03S	22	18.5	25.2	31.5	24.5	45.5	39	21	18.5	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	20.9	27	33	25	50	42	22	20.9	101

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

(M5)



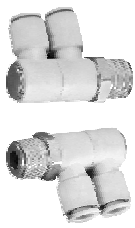
(R)



One-touch Fittings

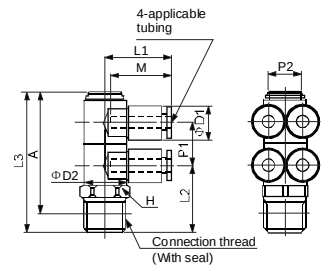
Series KQ2

Double Branch Universal Male Elbow: KQ2ZD



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	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	14	10.4	13.4	21	21.5	44	38	16	13.4	10.4	40
	3/8	KQ2ZD04-03S	17	10.4	13.4	21	23.5	48	40	16	13.4	10.4	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	14	12.8	13.4	22	21.5	44	38	17	13.4	12.8	43
	3/8	KQ2ZD06-03S	17	12.8	13.4	22	23.5	46	40	17	13.4	12.8	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	19	15.2	17.6	26	24	51	45	18.5	15.9	15.2	72
	3/8	KQ2ZD08-03S	19	15.2	17.6	26	25	52	45.5	18.5	15.9	15.2	81
10	1/2	KQ2ZD08-04S	21	15.2	17.6	26	28.5	55.5	47.5	18.5	15.9	15.2	102
	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	18.5	20.6	29	27.5	59	53	21	19.2	18.5	111
12	1/2	KQ2ZD10-04S	21	18.5	20.6	29	30.5	62	54	21	19.2	18.5	128
	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	20.9	25.2	32	29.5	65.5	59	22	21.6	20.9	167
	1/2	KQ2ZD12-04S	26	20.9	25.2	32	32.5	68.5	60	22	21.6	20.9	179

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

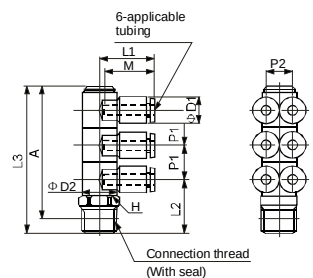


Triple Branch Universal Male Elbow: KQ2ZT



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	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	14	10.4	13.4	21	21.5	57.5	51.5	16	13.4	10.4	31
	3/8	KQ2ZT04-03S	17	10.4	13.4	21	23.5	59.5	53.5	16	13.4	10.4	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	14	12.8	13.4	22	21.5	57.5	51.5	17	13.4	12.8	33
	3/8	KQ2ZT06-03S	17	12.8	13.4	22	23.5	59.5	53.5	17	13.4	12.8	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	19	15.2	17.6	26	24	67	61	18.5	15.9	15.2	54
	3/8	KQ2ZT08-03S	19	15.2	17.6	26	25	68	61.5	18.5	15.9	15.2	62
10	1/2	KQ2ZT08-04S	21	15.2	17.6	26	28.5	71.5	63.5	18.5	15.9	15.2	85
	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	18.5	20.6	29	27.5	78.5	72	21	19.2	18.5	85
12	1/2	KQ2ZT10-04S	21	18.5	20.6	29	30.5	81.5	73.5	21	19.2	18.5	102
	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	20.9	25.2	32	29.5	87	80.5	22	21.6	20.9	130
	1/2	KQ2ZT12-04S	26	20.9	25.2	32	32.5	90	82	22	21.6	20.9	141

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

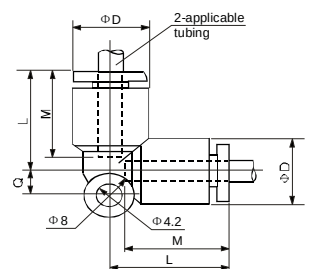


Union Elbow: KQ2L



Applicable tubing O.D. (mm)	Model	Φ D	L	Q	M	Effective 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

Use to connect tubes at right angles.



One-touch Fittings Series KQ2

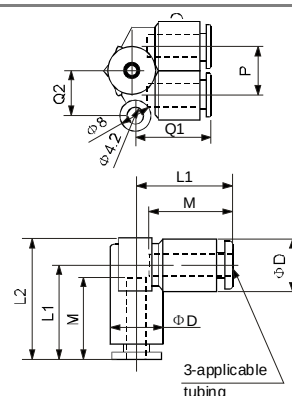
GRIPPER
SYSTEMS S.R.O.

Branch Union Elbow: KQ2LU



Applicable tubing O.D. (mm)	Model	ΦD	L1	L2	Q1	Q2	M	P	Effective area (mm²)		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

Use to branch line at right angles.

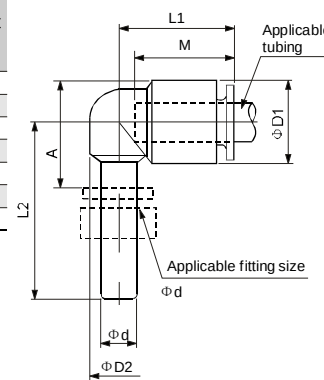


Plug-in Elbow: KQ2L



Applicable tubing O.D. (mm)	Applicable fitting size Φd	Model	ΦD1	ΦD2	L1	L2	A	M	Effective area (mm²)		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

Use to change by 90° in a tube fetching from One-touch direction fittings.

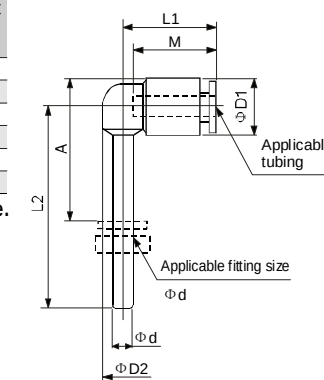


Extended Plug-in Elbow: KQ2W



Applicable tubing O.D. (mm)	Applicable fitting size Φd	Model	ΦD1	ΦD2	L1	L2	A	M	Effective area (mm²)		Weight (g)
									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	12	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

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

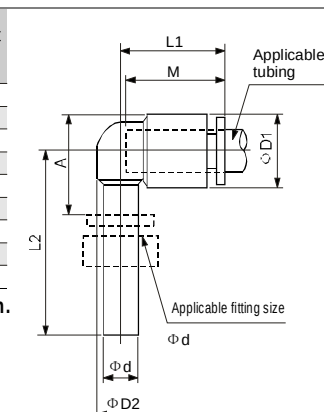


Reducer Elbow: KQ2L



Applicable tubing O.D. (mm)	Applicable fitting size Φd	Model	ΦD1	ΦD2	L1	L2	A	M	Effective area (mm²)		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
4	8	KQ2L04-08	10.4	10	18	35	22	16	4.2	4.2	11
6	8	KQ2L06-08	12.8	10	19.5	30.5	18	17	11.4	9.0	12
6	10	KQ2L06-10	12.8	10	20	38.5	24	17	11.4	9.0	19
8	10	KQ2L08-10	15.2	12	22.5	33.5	20.5	18.5	21.6	14.9	20
8	12	KQ2L08-12	15.2	12	23	40.5	26	18.5	21.6	14.9	27
10	12	KQ2L10-12	18.5	17	26.5	42	29.5	21	35.2	25.0	29
12	16	KQ2L12-16	20.9	17	28.5	49.5	34.5	22	50.2	39.7	53

Use to change by 90° in a tube fetching direction from One touch fittings and to size down.



IV

KQ2

BP

APF

APN

APK

APB

QC

Y

YQS

Silencer

AS

RQ

Tube

Air gun

CV

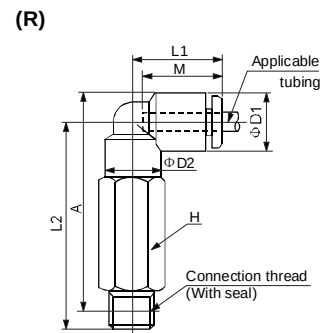
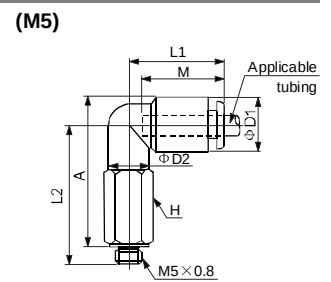
One-touch Fittings

Series KQ2

Extended Male Elbow: KQ2W

(M5)	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	L1	L2	A	M	Effective area (mm²)		Weight (g)
											Nylon	Urethane	
	3.2	M5×0.8	KQ2W23-M5	8	9.6	8	17.5	30	31	15.5	2.8	2.4	10
		1/8	KQ2W23-01S	10	9.6	10	17.5	37	38	15.5	2.8	2.4	19
		1/4	KQ2W23-02S	14	9.6	10	17.5	43	42	15.5	2.8	2.4	41
	4	M5×0.8	KQ2W04-M5	8	10.4	8	18	30	32	16	3.0	3.0	11
		1/8	KQ2W04-01S	10	10.4	10	18	37.5	38.5	16	4.0	4.0	23
		1/4	KQ2W04-02S	14	10.4	10	18	43.5	42.5	16	4.0	4.0	38
	6	M5×0.8	KQ2W06-M5	8	12.8	8	20	30.5	33.5	17	3	3	11
		1/8	KQ2W06-01S	10	12.8	10	20	40	42.5	17	10.9	8.6	26
		1/4	KQ2W06-02S	14	12.8	10	20	46	46.5	17	10.9	8.6	41
	8	3/8	KQ2W06-03S	17	12.87	10	20	48	48	17	10.9	8.6	67
		1/8	KQ2W08-01S	12	15.2	12	23	43.5	47	18.5	20.5	14.2	30
		1/4	KQ2W08-02S	14	15.2	12	23	49.5	51	18.5	20.5	14.2	47
	10	3/8	KQ2W08-03S	17	15.2	12	23	51.5	52.5	18.5	20.5	14.2	74
		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	18.5	17	26.5	58.5	61	21	33.5	23.8	76
	12	1/2	KQ2W10-04S	22	18.5	17	26.5	65	66	21	33.5	23.8	145
		1/4	KQ2W12-02S	17	20.9	17	28.5	57.5	62	22	47.7	37.7	68
		3/8	KQ2W12-03S	17	20.9	17	28.5	59.5	63.5	22	47.7	37.7	78
	16	1/2	KQ2W12-04S	22	20.9	17	28.5	66	68.5	22	47.7	37.7	147
		3/8	KQ2W16-03S	22	26.5	20.9	34	69.5	76	25	71	(71)	101
		1/2	KQ2W16-04S	22	26.5	20.9	34	75	80	25	100	(84)	105

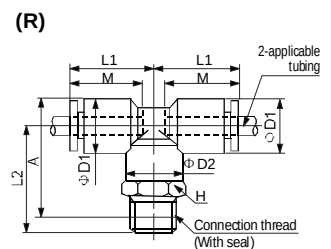
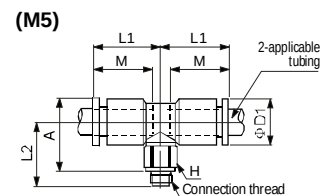
Basically, it is used together with male elbow. Different point is that it is used for with fittings to avoid from interfering with each other by making the piping two-level.



Male Branch Tee: KQ2T

(M5)	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D1	Φ D2	L1	L2	A	M	Effective area (mm²)		Weight (g)
											Nylon	Urethane	
	3.2	M5×0.8	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	9.6	10	17.5	25.5	24.5	15.5	3.4	2.9	20
	4	M5×0.8	KQ2T04-M5	7	9.3	-	15.6	13.7	15.3	12.7	4.5	4.5	3.5
		M6×1.0	KQ2T04-M6	8	9.3	-	15.6	14.7	15.3	12.7	4.5	4.5	4.4
		1/8	KQ2T04-01S	10	10.4	10	18	22	23	16	6.0	4.1	13
	6	1/4	KQ2T04-02S	14	10.4	10	18	26	25	16	6.0	4.1	19
		M5×0.8	KQ2T06-M5	7	11.6	-	16.1	14.7	17.4	13.5	4.5	4.5	4.4
		M6×1.0	KQ2T06-M6	8	11.6	-	16.1	15.7	17.4	13.5	4.5	4.5	5.3
	8	1/8	KQ2T06-01S	10	12.8	10	20	23	25.5	17	13.9	11.0	12
		1/4	KQ2T06-02S	14	12.8	10	20	27	27.5	17	13.9	11.0	20
		3/8	KQ2T06-03S	17	12.8	10	20	29	29	17	13.9	11.0	34
	10	1/8	KQ2T08-01S	12	15.2	12	23	24.5	28	18.5	26.3	18.2	14
		1/4	KQ2T08-02S	14	15.2	12	23	28.5	30	18.5	26.3	18.2	22
		3/8	KQ2T08-03S	17	15.2	12	23	30.5	31.5	18.5	26.3	18.2	36
	12	1/8	KQ2T10-01S	17	18.5	17	26.5	27	32	21	40.8	29.0	31
		1/4	KQ2T10-02S	17	18.5	17	26.5	30	33	21	40.8	29.0	29
		3/8	KQ2T10-03S	17	18.5	17	26.5	32	34.5	21	40.8	29.0	39
	16	1/2	KQ2T10-04S	22	18.5	17	26.5	36	37	21	40.8	29.0	66
		1/4	KQ2T12-02S	17	20.9	17	28.5	31	35.5	22	57.2	45.2	31
		3/8	KQ2T12-03S	17	20.9	17	28.5	33	37	22	57.2	45.2	41
	16	1/2	KQ2T12-04S	22	20.9	17	28.5	37	39.5	22	57.2	45.2	68
		3/8	KQ2T16-03S	22	26.5	20.9	34	38	44.5	25	71	(71)	112
		1/2	KQ2T16-04S	22	26.5	20.9	34	40.5	46	25	100	(100)	116

Use to branch line from female thread in both 90° directions.



One-touch Fittings Series KQ2

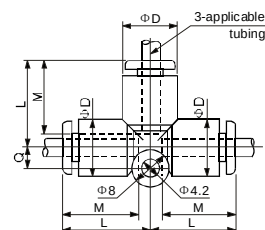
GRIPPER
SYSTEMS S.R.O.

Union Tee: KQ2T



Applicable tubing O.D. (mm)	Model	Φ D1	L	Q	M	Effective 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

Use to connect tubes in both 90° directions.

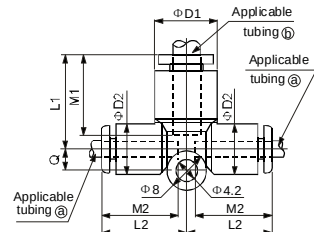


Different Diameter Tee: KQ2T



Applicable tubing O.D. (Mm)		Model	Φ D1	Φ D2	L1	L2	Q	M1	M2	Effective 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

Use to connect tubes with size down in both 90° directions.

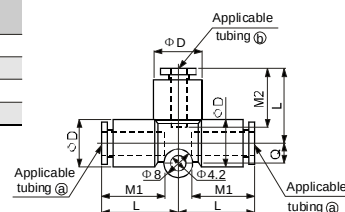


Different Diameter Tee: KQ2T

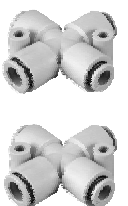


Applicable tubing O.D. (Mm)		Model	Φ D	L	Q	M1	M2	Effective area (mm ²)		Weight (g)
(a)	(b)							Nylon	Urethane	
6	4	KQ2T06-04	12.8	20	5.3	17	16	6.4	4.4	10
8	6	KQ2T08-06	15.2	23	6	18.5	17	13.4	10.6	15
10	8	KQ2T10-08	18.5	26.5	7.5	21	18.5	25.6	17.7	25
12	10	KQ2T12-10	20.9	28.5	7.5	22	21	40	28.4	29

Use to branch line with size down in both side 90° direction.

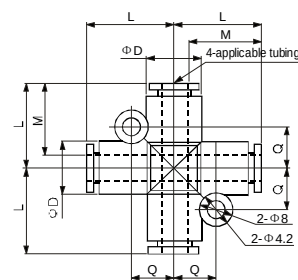


Cross: KQ2TW

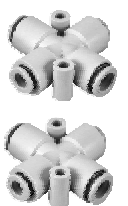


Applicable tubing O.D. (mm)	Model	Φ D	L	Q	M	Effective area (mm ²)		Weight (g)
						Nylon	Urethane	
4	KQ2TW04-00	10.4	18	8.7	16	6.4	4.4	9
6	KQ2TW06-00	12.8	20	9.9	17	13.4	10.6	13
8	KQ2TW08-00	15.2	23	11.1	18.5	25.6	17.7	20
10	KQ2TW10-00	18.5	26.5	12.8	21	40	28.4	33
12	KQ2TW12-00	20.9	28.5	13.9	22	57.4	45.4	39

Use to four-branch line.

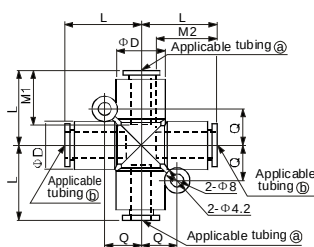


Different Diameter Cross: KQ2TX



Applicable tubing O.D. (Mm)		Model	Φ D	L	Q	M1	M2	Effective 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

Use to connect tubes with size down in all 90° directions.



IV

KQ2

BP

APF

APN

APK

APB

QC

Y

YQS

Silencer

AS

RQ

Tube

Air gun

CV

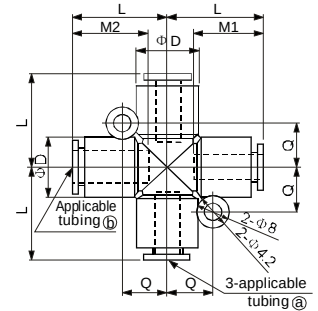
One-touch Fittings Series KQ2

Different Diameter Cross: KQ2TY



Applicable tubing O.D. (mm)		Model	ΦD	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

Use to branch line with size down in three directions.



Male Run Tee: KQ2Y

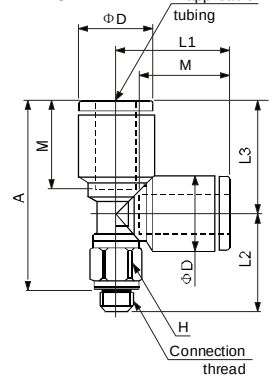
(M5)



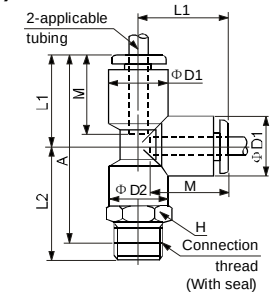
Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ΦD1	ΦD2	L1	L2	L3	A	M	Effective area (mm ²)		Weight (g)
											Nylon	Urethane	
3.2	M5 × 0.8	KQ2Y23-M5	7	8.4	-	15.4	13.2	14.8	24.9	12.7	3.2	2.7	3.2
	1/8	KQ2Y23-01S	10	9.6	10	17.5	21.5	-	35	15.5	3.4	2.9	10
	1/4	KQ2Y23-02S	14	9.6	10	17.5	25.5	-	37	15.5	3.4	2.9	20
4	M5 × 0.8	KQ2Y04-M5	7	9.3	-	15.6	13.7	14.8	25.4	12.7	4.5	4.5	3.5
	M6 × 1.0	KQ2Y04-M6	8	9.3	-	15.6	14.7	14.8	25.4	12.7	4.5	4.5	6
	1/8	KQ2Y04-01S	10	10.4	10	18	22	-	36	16	6.4	4.4	13
6	1/4	KQ2Y04-02S	14	10.4	10	18	26	-	38	16	6.4	4.4	19
	M5 × 0.8	KQ2Y06-M5	7	11.6	-	17.1	14.7	17.1	28.7	13.5	4.5	4.5	4.5
	M6 × 1.0	KQ2Y06-M6	8	11.6	-	17.1	15.7	17.1	28.7	13.5	4.5	4.5	7
8	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
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	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
12	1/8	KQ2Y10-01S	17	18.5	17	26.5	27	-	49.5	21	40.0	28.4	31
	1/4	KQ2Y10-02S	17	18.5	17	26.5	30	-	50.5	21	40.0	28.4	29
	3/8	KQ2Y10-03S	17	18.5	17	26.5	32	-	52	21	40.0	28.4	39
16	1/2	KQ2Y10-04S	22	18.5	17	26.5	36	-	54.5	21	40.0	28.4	66
	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
16	1/2	KQ2Y12-04S	22	20.9	17	28.5	37	-	57.5	22	57.4	45.4	68
	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

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

(M5, M6)



(R)

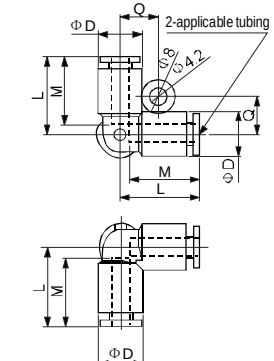


Delta Union: KQ2D



Applicable tubing O.D. (mm)	Model	ΦD	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

Use to branch in tripple 90° direction.



One-touch Fittings Series KQ2

GRIPPER
SYSTEMS S.R.O.

Male Delta Union: KQ2D

(R)



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D	L1	L2	A	M	Q	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
4	M5×0.8	KQ2D04-M5	11	10.4	18.5	24	25.5	16	8.7	2.2	2.2	10
	M6×1.0	KQ2D04-M6	11	10.4	18.5	24.5	25.5	16	8.7	4.3	4.3	10
	1/8	KQ2D04-01S	11	10.4	18.5	26.5	27.5	16	8.7	6.0	6.0	12
	1/4	KQ2D04-02S	14	10.4	18.5	30.5	29.5	16	8.7	3.0	6.0	21
6	M5×0.8	KQ2D06-M5	13	12.8	20.5	26	28.5	17	9.9	4.3	4.3	12
	M6×1.0	KQ2D06-M6	13	12.8	20.5	26.5	28.5	17	9.9	4.3	4.3	12
	1/8	KQ2D06-01S	13	12.8	20.5	29	31.5	17	9.9	13.9	11.0	14
	1/4	KQ2D06-02S	14	12.8	20.5	32.5	33	17	9.9	13.9	11.0	21
8	3/8	KQ2D06-03S	17	12.8	20.5	34.5	34.5	17	9.9	13.9	11.0	34
	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	17	15.2	23.5	36.5	38	18.5	11.1	26.3	18.2	26
	3/8	KQ2D08-03S	17	15.2	23.5	37.5	38.5	18.5	11.1	26.3	18.2	35
10	1/4	KQ2D10-02S	19	18.5	26.5	39.5	43	21	12.8	40.8	29.0	39
	3/8	KQ2D10-03S	19	18.5	26.5	40.5	43.5	21	12.8	40.8	29.0	40
	1/2	KQ2D10-04S	22	18.5	26.5	44	45	21	12.8	40.8	29.0	62
	1/4	KQ2D12-02S	22	20.9	28.5	42	46.5	22	13.9	57.2	45.2	55
12	3/8	KQ2D12-03S	22	20.9	28.5	43	47	22	13.9	57.2	45.2	56
	1/2	KQ2D12-04S	22	20.9	28.5	46	48.5	22	13.9	57.2	45.2	63

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

IV

KQ2

BP

APF

APN

APK

APB

QC

Y

YQS

Silencer

AS

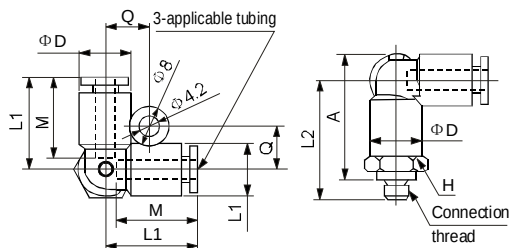
RQ

Tube

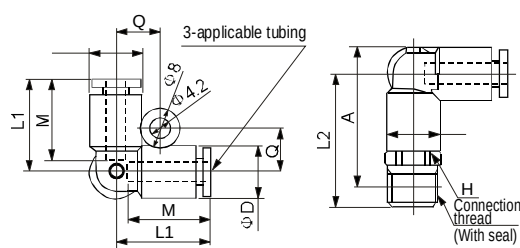
Air gun

CV

(M5, M6)



(R)



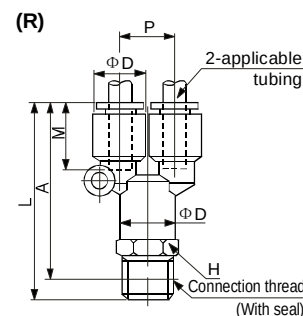
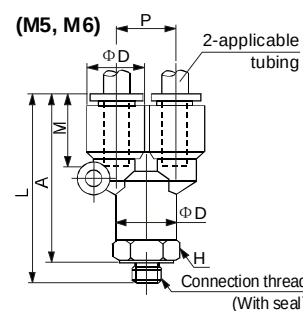
Branch "Y" : KQ2U

(R)



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	Φ D	L	P	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	M5×0.8	KQ2U23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9
	1/8	KQ2U23-01S	11	9.6	41	9.6	37	15.5	3.4	2.9	14
	1/4	KQ2U23-02S	14	9.6	44	9.6	38	15.5	3.4	2.9	14
4	M5×0.8	KQ2U04-M5	11	10.4	39.5	10.4	36	16	2.2	2.2	4
	M6×1.0	KQ2U04-M6	11	10.4	40	10.4	36	16	2.2	2.2	10
	1/8	KQ2U04-01S	11	10.4	42	10.4	38	16	4.2	4.2	11
6	1/4	KQ2U04-02S	14	10.4	46	10.4	40	16	4.2	4.2	20
	M5×0.8	KQ2U06-M5	13	12.8	42.5	12.8	39	17	2.2	2.2	12
	M6×1.0	KQ2U06-M6	13	12.8	43	12.8	39	17	2.2	2.2	12
8	1/8	KQ2U06-01S	13	12.8	45.5	12.8	41.5	17	13.4	10.6	11
	1/4	KQ2U06-02S	14	12.8	49	12.8	43	17	13.4	10.6	21
	3/8	KQ2U06-03S	17	12.8	51	12.8	44.5	17	13.4	10.6	34
10	1/8	KQ2U08-01S	17	15.2	52.5	15.2	48.5	18.5	25.6	17.7	15
	1/4	KQ2U08-02S	17	15.2	55.5	15.2	49.5	18.5	25.6	17.7	23
	3/8	KQ2U08-03S	17	15.2	56.5	15.2	50	18.5	25.6	17.7	35
12	1/4	KQ2U10-02S	19	18.5	61	18.5	55	21	40	28.4	30
	3/8	KQ2U10-03S	19	18.5	62	18.5	55.5	21	40	28.4	40
	1/2	KQ2U10-04S	22	18.5	65	18.5	57	21	40	28.4	65
16	1/4	KQ2U12-02S	22	20.9	64.5	20.9	58.5	22	57.4	45.4	32
	3/8	KQ2U12-03S	22	20.9	65.5	20.9	59	22	57.4	45.4	40
	1/2	KQ2U12-04S	22	20.9	68.5	20.9	60.5	22	57.4	45.4	65
16	3/8	KQ2U16-03S	27	26.5	76	26.5	69.5	25	81	(81)	106
	1/2	KQ2U16-04S	27	26.5	79	26.5	71	25	113	(96)	111

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



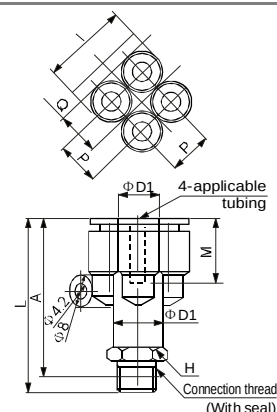
One-touch Fittings Series KQ2

Delta Branch: KQ2UD



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ΦD1	ΦD2	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	10.4	12.8	47	21	41	9.7	16	10.4	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	17	12.8	15.2	53.5	26	47.5	11.7	17	12.8	13.4	10.6	29

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

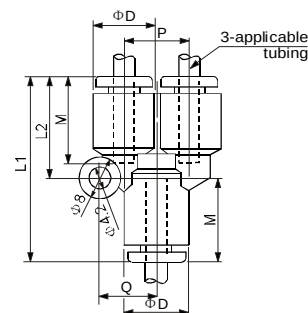


Union "Y" : KQ2U



Applicable tubing O.D. (mm)	Model	ΦD	L1	L2	P	Q	M	Effective area ⁽²⁾ (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

Use to branch line in the same direction.

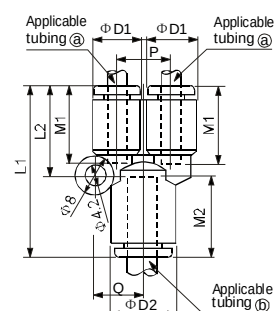


Different Diameter Union "Y" : KQ2U

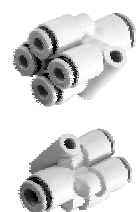


Applicable tubing O.D. (mm)		Model	ΦD1	ΦD2	L1	L2	P	Q	M1	M2	Effective area (mm ²)		Weight (g)
(a)	(b)										Nylon	Urethane	
3.2	4	KQ2U23-04	9.6	10.4	33.5	17.5	9.6	9	15.5	16	3.2	2.7	5
4	6	KQ2U04-06	10.4	12.8	35	18	10.4	9.7	16	17	4.2	4.2	6
6	8	KQ2U06-08	12.8	15.2	39.5	20	12.8	11.7	17	18.5	13.4	10.6	11
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

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

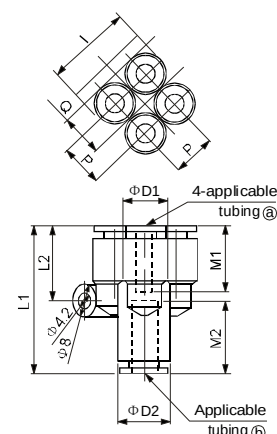


Different Diameter Double Union "Y" : KQ2UD



Applicable tubing O.D. (mm)		Model	ΦD1	ΦD2	L1	L2	P	I	Q	M1	M2	Effective area (mm ²)		Weight (g)
(a)	(b)											Nylon	Urethane	
4	6	KQ2UD23-04	10.4	12.8	35.5	18.2	10.4	21	9.7	16	17	4.2	4.2	10
6	8	KQ2UD04-06	12.8	15.2	40.5	20.3	12.8	26	11.7	17	18.5	13.4	10.6	17

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



One-touch Fittings Series KQ2

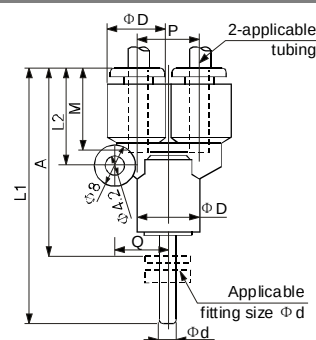
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Plug-in “Y” : KQ2U



Applicable tubing O.D. (mm)	Applicable fitting size Φd	Model	ΦD	L1	L2	P	Q	A	M	Effective area a (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

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

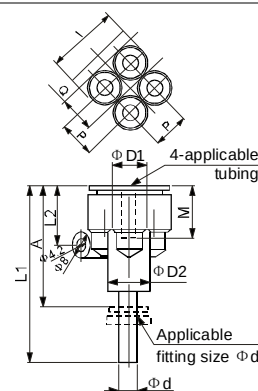


Double Plug-in “Y” : KQ2XD



Applicable tubing O.D. (mm)	Applicable fitting size Φd	Model	$\Phi D1$	$\Phi D2$	L1	L2	I	Q	A	P	M	Effective area a (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

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

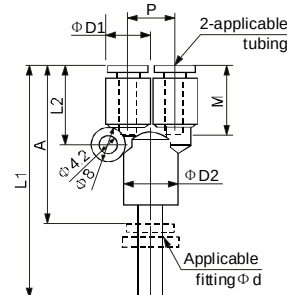


Different Diameter Plug-in “Y” : KQ2X



Applicable tubing O.D. (mm)	Applicable fitting size Φd	Model	$\Phi D1$	$\Phi D2$	L1	L2	A	P	Q	M	Effective area a (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

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

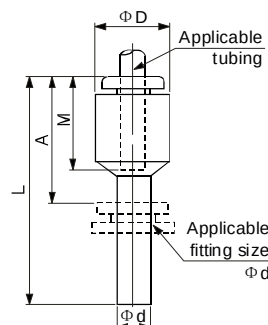


Plug-in Reducer: KQ2R



Applicable tubing O.D. (mm)	Applicable fitting size Φd	Model	ΦD	L	A	M	Effective area a (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
4	8	KQ2R04-08	10.4	36.5	18	16	5.6	4	2.0
4	10	KQ2R04-10	12.8	39.5	18.5	16	5.6	4	3.3
6	4	KQ2R06-04	12.8	37	21	17	4	4	2.5
6	8	KQ2R06-08	12.8	37	18.5	17	13.1	10.4	2.5
6	10	KQ2R06-10	12.8	39.5	18.5	17	13.1	10.4	3
6	12	KQ2R06-12	15.2	42	20	17	13.1	10.4	4.7
8	10	KQ2R08-10	15.2	41	20	18.5	26.1	18.0	4.0
8	12	KQ2R08-12	15.2	42	20	18.5	26.1	18.0	4.6
10	12	KQ2R10-12	18.5	44.5	23	21	41.5	32.8	33
10	16	KQ2R10-16	20.9	50.5	25.5	21	41.5	(29.5)	42
16	16	KQ2R12-16	20.9	50.5	25.5	22	58.3	(46.1)	37

Use to change size of One-touch fittings.



IV

KQ2

BP

APF

APN

APK

APB

QC

Y

YQS

Silencer

AS

RQ

Tube

Air gun

CV

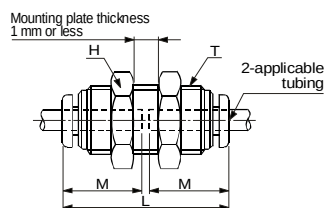
Series KQ2

Bulkhead Union: KQ2E



Applicable tubing O.D. (mm)	Model	T (M)	H (width across flats)	L	Mounting hole	M	Effective area (mm ²)		Weight (g)
							Nylon	Urethane	
3.2	KQ2E23-00	M12×1	14	31.5	13	15.5	3.4	2.9	26
4	KQ2E04-00	M12×1	14	32.5	13	16	5.6	4	26
6	KQ2E06-00	M14×1	17	34.5	15	17	13.1	10.4	33
8	KQ2E08-00	M16×1	19	38	17	18.5	26.1	18.0	52
10	KQ2E10-00	M20×1	24	42.5	21	21	41.5	29.5	70
12	KQ2E12-00	M22×1	27	44	23	22	58.3	46.1	90
16	KQ2E16-00	M28×1.5	32	51	29	25	113	(96)	115

Use to connect tubes through a panel.

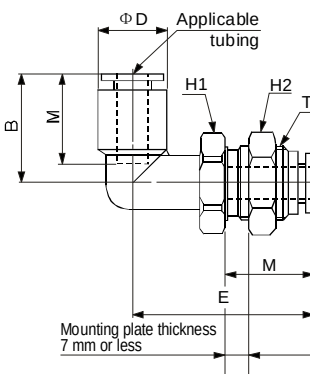


Bulkhead Male Elbow: KQ2LE



Applicable tubing O.D. (mm)	Model	T (M)	H1 (Hex. Across flats)	H2 (Hex. Across flats)	B	E	Φ D	Mounting hole	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
4	KQ2LE04-00	M12×1	14	14	18.5	31	10.4	13	16	4.2	4.2	18
6	KQ2LE06-00	M14×1	17	17	20.5	34	12.8	15	17	11.4	9.0	25
8	KQ2LE08-00	M16×1	17	19	23.5	38.5	15.2	17	18.5	21.6	14.9	33
10	KQ2LE10-00	M20×1	22	24	26.5	43.5	18.5	21	21	35.2	25.0	63
12	KQ2LE12-00	M22×1	24	27	28.5	45.5	20.9	23	22	50.2	39.7	77

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

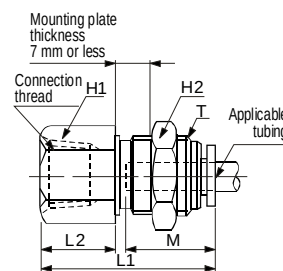


Bulkhead Connector: KQ2E



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 (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	1/4	KQ2E23-02	M12×1	17	14	31.5	15	13	15.5	3.4	2.9	13
4	1/8	KQ2E04-01	M12×1	14	14	27.5	11	13	16	5.6	4	16
	1/4	KQ2E04-02	M12×1	17	14	31	15	13	16	5.6	4	35
	1/8	KQ2E06-01	M14×1	17	17	28	11	15	17	13.1	10.4	25
6	1/4	KQ2E06-02	M14×1	17	17	31.5	15	15	17	13.1	10.4	40
	3/8	KQ2E06-03	M14×1	19	17	33.5	17	15	17	13.1	10.4	29
	1/8	KQ2E08-01	M16×1	17	19	27.5	7.5	17	18.5	26.1	18.0	28
	1/4	KQ2E08-02	M16×1	17	19	33	13	17	18.5	26.1	18.0	27
	3/8	KQ2E08-03	M16×1	19	19	35	15	17	18.5	26.1	18.0	48
10	1/4	KQ2E10-02	M20×1	22	24	34.5	12.5	21	21	41.5	29.5	53
	3/8	KQ2E10-03	M20×1	22	24	36.5	15	21	21	41.5	29.5	67
12	3/8	KQ2E12-03	M22×1	24	27	37	14	23	22	58.3	46.1	92
	1/2	KQ2E12-04	M22×1	24	27	41	18	23	22	58.3	46.1	59
16	3/8	KQ2E16-03	M28×1.5	30	32	40	14	29	25	96	(96)	127
	1/2	KQ2E16-04	M28×1.5	30	32	44	18	29	25	113	(96)	132

Use to connect male thread and tube through a panel.

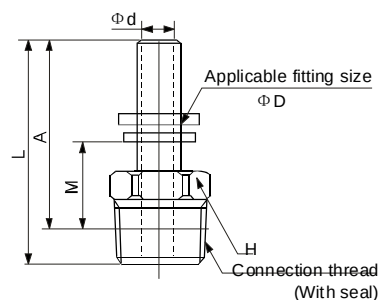


Adaptor: KQ2N



(M5)	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	L	A	M	Φ d	Weight (g)
4		M5×0.8	KQ2N04-M5	7	32	29	13	2.5	2
		1/8	KQ2N04-01S	10	34	30	14	2.5	6
		M5×0.8	KQ2N06-M5	7	33	30	13	2.5	2
6		1/8	KQ2N06-01S	10	35	31	14	4.5	5
		1/4	KQ2N06-02S	14	37.5	31.5	14.5	4.5	14
8		1/4	KQ2N08-02S	14	39	33	14.5	6	17
		3/8	KQ2N08-03S	17	41	34.5	16	6	30
10		3/8	KQ2N10-03S	17	46	39.5	18.5	7.5	31

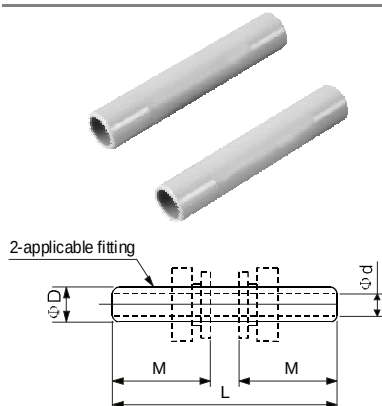
Use to connect fitting and R female thread.



One-touch Fittings Series KQ2

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Nipple: KQ2N

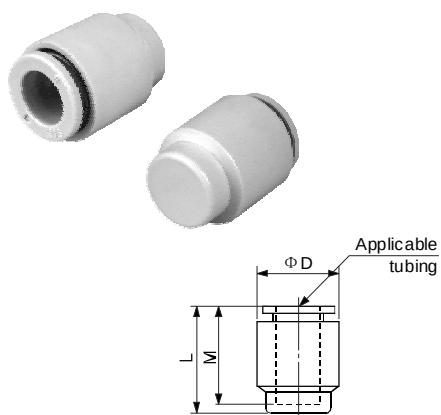


Applicable fitting ΦD	Model	L	M	Φd	Weight (g)
4	KQ2N04-99	37	16	2.5	1
6	KQ2N06-99	39	17	4	2
8	KQ2N08-99	43	18.5	6	2
10	KQ2N10-99	49	21	7.5	4
12	KQ2N12-99	52	22	9	20.6
16	KQ2N16-99	57	25	13	31

Use to connect One-touch fittings.

IV
KQ2
BP
APF
APN
APK
APB
QC
Y
YQS Silencer
AS
RQ
Tube
Air gun
CV

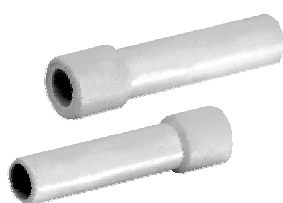
Tube Cap: KQ2C



Applicable tubing O.D. (mm)	Model	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	12

Use to plug unused tube.

Plug: KQ2P, KQP



Applicable fitting size Φd	Model		ΦD	L	M	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

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

