

Metric Size One-touch Fittings **KQ2 Series**

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

How to Order

Threaded Type

KQ2 H 06 - 01 A S

One-touch fittings

Model

Symbol	Model
H	Male connector
S	Hexagon socket head male connector
F	Female connector
L	Male elbow
LU	Branch male elbow
K	45° male elbow
V	Universal male elbow
VS	Hexagon socket head universal male elbow
VF	Universal female elbow
LF	Female elbow
VD	Double universal male elbow
VT	Triple universal male elbow
Z	Branch universal male elbow
ZF	Branch universal female elbow
ZD	Double branch universal male elbow
ZT	Triple branch universal male elbow
W	Extended male elbow
T	Male branch tee
Y	Male run tee
D	Male delta union
U	Branch "Y"
UD	Double branch "Y"
E	Bulkhead union
	Bulkhead connector
LE	Bulkhead male elbow
N	Adapter

Male thread seal method

Symbol	Seal method
Nil	None
S	With thread sealant

Thread material/Surface treatment

Symbol	Thread material/Surface treatment
A	Brass
N	Brass + Electroless nickel plating
G	Stainless steel 303 (Connection thread: Only male thread and M3)
Bulkhead union	☐ J Interchangeable with KJE

* ☐: A, N

Port size/Applicable tubing O.D.

Symbol	Size
Thread connection	M3 M3 x 0.5
	M5 M5 x 0.8
	M6 M6 x 1.0
	01 R1/8, Rc1/8
	02 R1/4, Rc1/4
	03 R3/8, Rc3/8
Tubing connection	04 R1/2, Rc1/2
	00*1 Same dia. tubing

*1 Only for "Bulkhead union" and "Bulkhead male elbow".

Applicable tubing O.D.

Symbol	Size
02	ø2
23	ø3.2
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16

Spare Parts

Use the part number below to order the gasket for M3, M5, and M6 threads.

Gasket for M3 thread: M-3G2

Gasket for M5 thread: M-5G2

Gasket for M6 thread: M-6G

For details on applicable tubing O.D. and port size combinations for each model, refer to the charts on the Dimensions page.

Tube - Tube Type

KQ2 H 06 - 00 A

One-touch fittings

Model

Symbol	Model
H	Straight union
	Different diameter straight
L	Union elbow
	Plug-in elbow
LU	Reducer elbow
	Branch union elbow
W	Extended plug-in elbow
T	Union tee
	Different diameter tee
TW	Cross
TX	Different diameter cross
TY	Different diameter cross
D	Delta union
U	Union "Y"
	Plug-in "Y"
	Different diameter union "Y"
UD	Different diameter double union "Y"
X	Different diameter plug-in "Y"
R	Plug-in reducer
XD	Double plug-in "Y"

Applicable tubing O.D. (Rod O.D.)

Symbol	Size
Tubing (Rod) connection	00 Same diameter tubing
	99 Same diameter rod
	23 ø3.2
	04 ø4
	06 ø6
	08 ø8
	10 ø10
	12 ø12
Different dia. tubing (Reducer)	16 ø16

Applicable tubing O.D.

Symbol	Size
02	ø2
23	ø3.2
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16

Accessories

Symbol	Name
KQ2N	Nipple
KQ2C	Reducer nipple
KQ2P	Tube cap
	Plug

Round Type

○

Metric Size M, R, Rc

Sealant/Gasket Seal

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Face Seal

Inch Size NPT

Inch Size R

Gasket Seal

Metric Size Uni

Inch Size Uni

Metric Size One-touch Fittings **KQ2 Series**

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

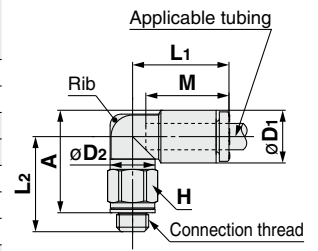
Dimensions

Male Elbow: KQ2L (Gasket seal)



Applicable tubing O.D. [mm]	Connection thread M	Model	H (Width across flats)	øD1	øD2	L1	L2	A	M	Effective area [mm²]		Min. port size	Weight [g]	With a rib
										Nylon	Urethane			
ø2	M3 x 0.5	KQ2L02-M3G	5.5	5.8	5.5	12.6	12.5	12.8	11.9	—	0.8	1.2	1.6	●
	M5 x 0.8	KQ2L02-M5□	7	5.8	5.5	12.6	13	12.9	11.9	—	0.8	1.4	2.7	●
ø3.2	M3 x 0.5	KQ2L23-M3G	7	7.1	7	15.3	13.8	14.8	13.3	0.8	0.8	1.2	2.7	●
	M5 x 0.8	KQ2L23-M5□	7	7.1	7	15.3	14.3	14.9	13.3	2.6	2.2	2.5	3.1	●
ø4	M3 x 0.5	KQ2L04-M3G	7	8.2	7	15.4	14.3	15.8	13.3	0.8	0.8	1.2	2.7	●
	M5 x 0.8	KQ2L04-M5□	7	8.2	7	15.4	14.8	15.9	13.3	3.5	3.5	2.5	3.1	●
	M6 x 1.0	KQ2L04-M6□	8	8.2	7	15.4	15.8	15.9	13.3	3.5	3.5	2.5	4.2	●
ø6	M5 x 0.8	KQ2L06-M5□	7	10.4	7	14.5	16.5	18.7	13.3	3.5	3.5	2.5	3.2	●
	M6 x 1.0	KQ2L06-M6□	8	10.4	7	14.5	17.5	18.7	13.3	3.5	3.5	2.5	4.3	●

□: A (Brass), N (Brass + Electroless nickel plating)



Male Elbow: KQ2L (Sealant)

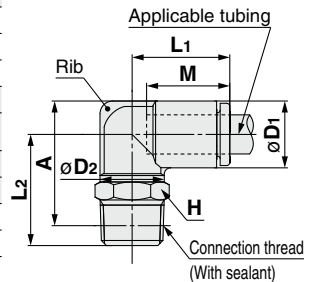


Applicable tubing O.D. [mm]	Connection thread R	Model	H (Width across flats)	øD1	øD2	L1	L2	A*1	M	Effective area [mm²]		Min. port size	Weight [g]	With a rib
										Nylon	Urethane			
ø3.2	1/8	KQ2L23-01□S	10	7.1	10	14.5	16.7	17.2	13.3	3	2.5	2.5	4.6	—
	1/4	KQ2L23-02□S	14	7.1	10	14.5	21.2	20.1	13.3	3	2.5	2.5	14.1	—
ø4	1/8	KQ2L04-01□S	10	8.2	10	14.8	16.2	17.2	13.3	4.6	3.3	3	4.8	●
	1/4	KQ2L04-02□S	14	8.2	10	14.8	21.7	21.1	13.3	4.6	3.3	3	14.3	●
ø6	1/8	KQ2L06-01□S	10	10.4	10	15.5	17.3	19.4	13.3	11.4	9	4.5	5.2	—
	1/4	KQ2L06-02□S	14	10.4	10	15.5	22.8	23.3	13.3	11.4	9	4.5	14.7	—
ø8	3/8	KQ2L06-03□S	17	10.4	10	15.5	24.1	24.2	13.3	11.4	9	4.5	26.5	—
	1/8	KQ2L08-01□S	10	13.2	10	16.4	18.7	22.2	14.2	11.4	11.4	4.5	6.1	●
ø8	1/4	KQ2L08-01□S*2	12	13.2	12	17.2	23.5	27.0	14.2	21.6	14.9	6	9.3	●
	1/4	KQ2L08-02□S	14	13.2	12	17.2	25.4	27.3	14.2	21.6	14.9	6	17.7	●
	3/8	KQ2L08-03□S	17	13.2	12	17.2	25.5	27.0	14.2	21.6	14.9	6	24.7	●
ø10	1/8	KQ2L10-01□S	12	15.9	12	18.6	23.6	28.4	15.6	21.6	14.9	6	11.1	●
	1/4	KQ2L10-02□S	17	15.9	17	19.3	28.7	31.9	15.6	35.2	25	7.5	21.7	●
	3/8	KQ2L10-03□S	17	15.9	17	19.3	29.6	32.4	15.6	35.2	25	7.5	22.2	●
ø12	1/2	KQ2L10-04□S	22	15.9	17	19.3	33.6	35.1	15.6	35.2	25	7.5	44.6	●
	1/4	KQ2L12-02□S	17	18.5	17	21.5	30.0	34.5	17	50.2	39.7	9	23.5	●
	3/8	KQ2L12-03□S	17	18.5	17	21.5	30.9	35.0	17	50.2	39.7	9	24.1	●
ø16	1/2	KQ2L12-04□S	22	18.5	17	21.5	34.9	37.7	17	50.2	39.7	9	46.5	●
	1/4	KQ2L16-02□S	17	23.8	17	25.1	32.6	39.8	20.6	50.2	50.2	9	27.8	●
	3/8	KQ2L16-03□S	22	23.8	21	27.1	35.4	42.2	20.6	71	58.9	11	40.8	—
ø16	1/2	KQ2L16-04□S	22	23.8	21	27.1	34.1	39.6	20.6	100	58.9	13	44.5	—

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of R thread

*2 For details, refer to page 131.



Round Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Face Seal

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Gasket Seal

KQ2 Series

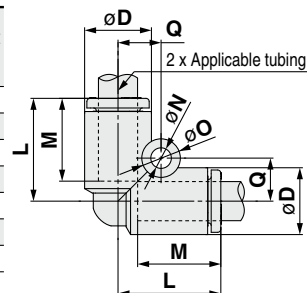
Applicable Tubing: Metric Size, Connection Thread: M, R, Rc

Dimensions

Union Elbow: KQ2L



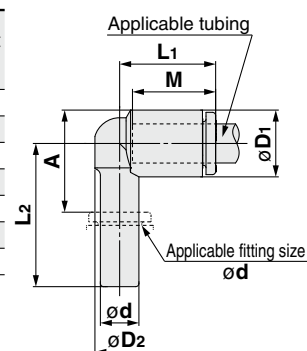
Applicable tubing O.D. [mm]	Model	øD	L	Q	M	Mounting hole			Effective area [mm²]		Min. port size	Weight [g]
						øO	øN	Thickness	Nylon	Urethane		
ø3.2	KQ2L23-00A	7.1	14.9	5.4	13.3	6	3.2	7.1	3	2.5	2.5	1.6
ø4	KQ2L04-00A	8.2	15.3	5.7	13.3	6	3.2	8.2	4.2	4.2	3	1.9
ø6	KQ2L06-00A	10.4	16.3	6.7	13.3	6	3.2	10.4	11.4	9	4.5	2.7
ø8	KQ2L08-00A	13.2	18.2	8.4	14.2	8	4.2	13.2	21.6	14.9	6	4.7
ø10	KQ2L10-00A	15.9	20.6	9.6	15.6	8	4.2	15.9	35.2	25	7.5	7.1
ø12	KQ2L12-00A	18.5	23	10.7	17	8	4.2	18.5	50.2	39.7	9	10.3
ø16	KQ2L16-00A	23.8	28.6	13.4	20.6	8	4.2	23.8	100	58.9	13	19.7



Plug-in Elbow: KQ2L



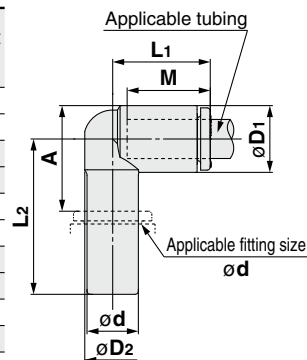
Applicable tubing O.D. [mm]	Applicable fitting size ød	Model	øD1	øD2	L1	L2	A	M	Effective area [mm²]		Min. port size	Weight [g]
									Nylon	Urethane		
ø3.2	ø3.2	KQ2L23-99A	7.1	6.4	14.4	20.9	11.1	13.3	3	2.5	2.2	0.9
ø4	ø4	KQ2L04-99A	8.2	7.2	14.5	21.1	11.9	13.3	4.2	4.2	2.5	1.2
ø6	ø6	KQ2L06-99A	10.4	8	15.3	22.3	14.2	13.3	9	9	4	1.8
ø8	ø8	KQ2L08-99A	13.2	10	17.2	26.2	18.6	14.2	21.6	14.9	6	3
ø10	ø10	KQ2L10-99A	15.9	12	19.3	28.2	20.5	15.6	35.2	25	7.5	4.7
ø12	ø12	KQ2L12-99A	18.5	14	21.5	31	23.2	17	50.2	39.7	9	7
ø16	ø16	KQ2L16-99A	23.8	20	27.1	36.8	28.1	20.6	100	58.9	13	13.7



Reducer Elbow: KQ2L



Applicable tubing O.D. [mm]	Applicable fitting size ød	Model	øD1	øD2	L1	L2	A	M	Effective area [mm²]		Min. port size	Weight [g]
									Nylon	Urethane		
ø3.2	ø4	KQ2L23-04A	7.1	6.4	14.5	23.9	14.1	13.3	3	2.5	2.5	1.1
	ø6	KQ2L23-06A	7.1	6.4	14.5	24.1	14.3	13.3	3	2.5	2.5	1.3
ø4	ø6	KQ2L04-06A	8.2	7.2	14.8	24.6	15.4	13.3	4.2	4.2	3	1.5
	ø8	KQ2L04-08A	8.2	7.2	14.8	29.5	19.4	13.3	4.2	4.2	3	1.8
ø6	ø8	KQ2L06-08A	10.4	9	15.5	24.2	15.2	13.3	11.4	9	4.5	2.1
	ø10	KQ2L06-10A	10.4	9	15.5	31.6	21.2	13.3	11.4	9	4.5	2.7
ø8	ø10	KQ2L08-10A	13.2	10	18.8	27.1	18.1	14.2	21.6	14.9	6	3.5
	ø12	KQ2L08-12A	13.2	10	18.8	34	23.6	14.2	21.6	14.9	6	4.9
ø10	ø12	KQ2L10-12A	15.9	12	19.3	35.6	26.5	15.6	35.2	25	7.5	5.6
ø12	ø16	KQ2L12-16A	18.5	14	21.5	42.6	31.2	17	50.2	39.7	9	8.7



Branch Union Elbow: KQ2LU



Applicable tubing O.D. [mm]	Model	øD	L1	L2	Q1	Q2	M	P	Mounting hole			Effective area [mm²]	Min. port size	Weight [g]
									øO	øN	Thickness	Nylon	Urethane	
ø4	KQ2LU04-00A	8.2	15.8	19.9	15.8	7.9	13.3	8.2	6	3.2	8.2	6	4.1	3.1
ø6	KQ2LU06-00A	10.4	16.5	21.7	16.5	10	13.3	10.4	6	3.2	10.4	13.9	11	4.5
ø8	KQ2LU08-00A	13.2	18.2	24.8	18.2	13.1	14.2	13.2	8	4.2	13.2	26.3	18.2	6
ø10	KQ2LU10-00A	15.9	20.3	28.3	20.3	15.9	15.6	15.9	8	4.2	15.9	40.8	29	7.5
ø12	KQ2LU12-00A	18.5	22.5	31.7	22.5	17.9	17	18.5	8	4.2	18.5	57.2	45.2	9

