

Metal One-touch Fittings

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

Series *KQB2*

RoHS



Applicable Tube

Tube material	FEP, PFA, Nylon, Soft nylon ^{Note 1)} , Polyurethane, Polyolefin
Tube O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16

Specifications

Fluid	Air, Water
Operating pressure range ^{Note 2)}	−100 kPa to 1 MPa ^{Note 3)}
Proof pressure	3.0 MPa
Ambient and fluid temperature ^{Note 4)}	−5 to 150°C (No freezing) ^{Note 3)}
Lubricant	Grease-free specification
Seal on the threads	With sealant

Note 1) For soft nylon tube, water cannot be used.

Note 2) Avoid using in a vacuum holding application such as a leak tester, since there is leakage.

Note 3) Check the operating pressure range and operating temperature range of the tube.

Note 4) It is recommended that you use the inner sleeve in the following conditions (Except ø3.2):

- When using in an environment where the fluid temperature changes drastically.
- When using at a high temperature.

* Temperature Condition of Mounting the Inner Sleeve

Tube	Temperature
FEP tube/TH series	80°C or more
PFA tube/TL series	120°C or more

Spare Parts

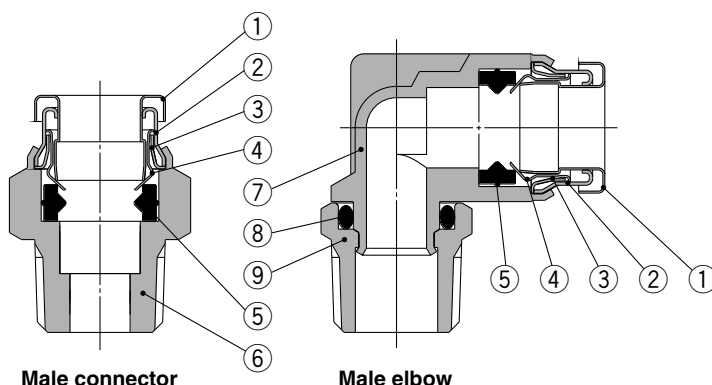
Description	Tube O.D.	Part no.	Material
Gasket	—	M-5G3	Stainless steel 316, Special FKM
Bulkhead nut	ø3.2 ø4	KQB223-P01	C3604 (Electroless nickel plated)
	ø6	KQB206-P01	
	ø8	KQB208-P01	
	ø10	KQB210-P01	
	ø12	KQB212-P01	
	ø16	KQB216-P01	

Cross Reference Table of the Inner Sleeve

Tube O.D.	Tube material			Applicable inner sleeve	
	TUS (Soft polyurethane)	TH/TH (FEP)	TL/TIL (PFA)	Part no.	Length
ø4	—	TH0402	—	TJ-0402	18
	TUS0425	TH0425	—	TJ-0425	18
	—	—	TL0403	TJ-0403	18
ø6	TUS0604	TH0604	TL0604	TJ-0604	19
	TUS0805	—	—	TJ-0805	20.5
	—	TH0806	TL0806	TJ-0806	20.5
ø10	TUS1065	—	—	TJ-1065	23
	—	TH1075	—	TJ-1075	23
	—	TH1008	TL1008	TJ-1008	23
ø12	TUS1208	—	—	TJ-1208	24
	—	TH1209	—	TJ-1209	24
	—	TH1210	TL1210	TJ-1210	24

* C2700 + Electroless nickel plated is used for the TJ series.

Construction



Component Parts

No.	Description	Material
1	Release button	Stainless steel 304
2	Guide 1	Stainless steel 304
3	Guide 2	Stainless steel 304
4	Chuck	Stainless steel 304
5	Seal	Special FKM (Fluoro coated)
6	Male connector body	C3604 (Electroless nickel plated)
7	Male elbow body	Stainless steel 316
8	O-ring	Special FKM (Fluoro coated)
9	Stud	C3604 (Electroless nickel plated)

Metal One-touch Fittings **Series KQB2**

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

Dimensions

Male Connector: KQB2H



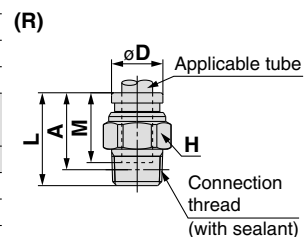
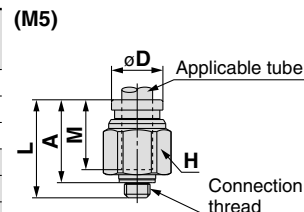
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) ϕD	L	A*	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	M5 x 0.8	KQB2H23-M5	8	8	16.5	13.5	12	3	3.4
	1/8	KQB2H23-01S	10		15.4	12.3		3.4	6
	1/4	KQB2H23-02S	14		21	16.3			17.8
$\phi 4$	M5 x 0.8	KQB2H04-M5	10	8.7	17.1	14.1	12.6	4	5.3
	1/8	KQB2H04-01S	10		15.3	12.2		5.6	5.6
	1/4	KQB2H04-02S	14		20.9	16.2			17.2
$\phi 6$	M5 x 0.8	KQB2H06-M5	12	11.1	19.1	16.1	13.6	4	8
	1/8	KQB2H06-01S	12		18.1	15		13.1	7.3
	1/4	KQB2H06-02S	14		20.8	16.1			15.2
	3/8	KQB2H06-03S	17		23	17.9			28.8
$\phi 8$	1/8	KQB2H08-01S	14	13.4	24.5	21.4	16.1	26.1	13.5
	1/4	KQB2H08-02S	14		22.3	17.6			26
	3/8	KQB2H08-03S	17		23.7	18.6			
$\phi 10$	1/8	KQB2H10-01S	17	16.4	25.5	22.4	17	26.1	19.8
	1/4	KQB2H10-02S	17		27.9	23.2		41.5	22.7
	3/8	KQB2H10-03S	17		23	17.9			21.6
	1/2	KQB2H10-04S	22		28.6	22.2			53.9
$\phi 12$	1/4	KQB2H12-02S	19	18.5	30.5	25.8	18.6	58.3	28.8
	3/8	KQB2H12-03S	19		24.7	19.6			21.5
	1/2	KQB2H12-04S	22		28.7	22.3			47
$\phi 16$	3/8	KQB2H16-03S	24	24.6	33.6	28.5	20.8	81	48.3
	1/2	KQB2H16-04S	24		29.5	23.1		113	39.2

* Reference dimensions after installation of R thread

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



Hexagon Socket Head Male Connector: KQB2S



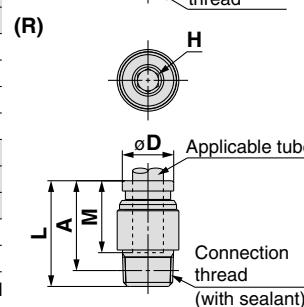
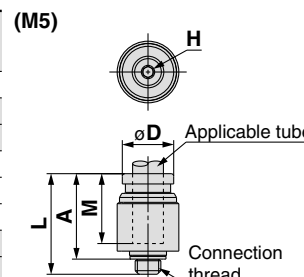
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) ϕD	L	A*	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	M5 x 0.8	KQB2S23-M5	2	9	16.5	13.5	12	3	4
$\phi 4$	M5 x 0.8	KQB2S04-M5	2	9	17.1	14.1	12.6	4	3.9
	1/8	KQB2S04-01S	3	10	20.4	17.3		4.1	7.9
$\phi 6$	M5 x 0.8	KQB2S06-M5	2	12	19.6	16.6	13.6	4	7.8
	1/8	KQB2S06-01S	4		20.6	15.9		10	9.1
	1/4	KQB2S06-02S	4					10.7	14.7
$\phi 8$	1/8	KQB2S08-01S	5	14	24.7	21.6	16.1	17.2	13
	1/4	KQB2S08-02S	6		22.9	18.2		23.3	13.5
	3/8	KQB2S08-03S	6		23.1	18			24
$\phi 10$	1/8	KQB2S10-01S	5	17	25.6	22.5	17	17.2	18.6
	1/4	KQB2S10-02S	8		27.5	22.8			20
	3/8	KQB2S10-03S	8			18.9		39	22
	1/2	KQB2S10-04S	22		24	17.6			39.2
$\phi 12$	1/4	KQB2S12-02S	8	19	30.6	25.9	18.6	46	26
	3/8	KQB2S12-03S	10		24.9	19.8		60	20.2
	1/2	KQB2S12-04S	10			18.5			35.3
$\phi 16$	3/8	KQB2S16-03S	10	24.6	33.2	28.1	20.8	81	43.6
	1/2	KQB2S16-04S	12		29.4	23		113	40.3

* Reference dimensions after installation of R thread

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



Straight Union: KQB2H

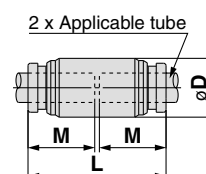


Applicable tube O.D. (mm)	Model	ϕD Note 1)	L	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	KQB2H23-00	9	25	12	3.4	6.8
$\phi 4$	KQB2H04-00	9	26.2	12.6	5.6	6.8
$\phi 6$	KQB2H06-00	12	28.2	13.6	13.1	12
$\phi 8$	KQB2H08-00	14	33.2	16.1	26.1	17.4
$\phi 10$	KQB2H10-00	17	35	17	41.5	27.2
$\phi 12$	KQB2H12-00	19	38.2	18.6	58.3	33.7
$\phi 16$	KQB2H16-00	24.6	42.6	20.8	113	56.1

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



Series KQB2

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

Dimensions

Male Elbow: KQB2L



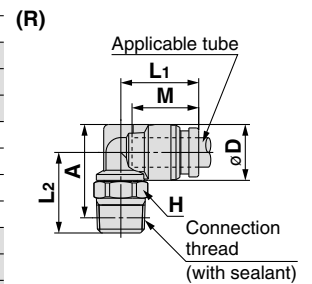
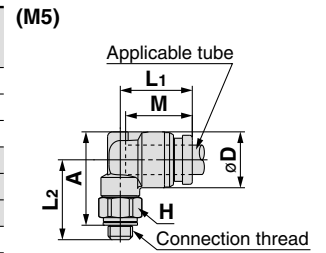
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) ϕD	L1	L2	A*	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	M5 x 0.8	KQB2L23-M5	8	8.3	13.1	14.8	16	12	2.6	6.5
	1/8	KQB2L23-01S	10		13.6	14.9	15.9		3	8
	1/4	KQB2L23-02S	14			18.7	18.1			16.6
$\phi 4$	M5 x 0.8	KQB2L04-M5	8	9.1	13.7	15.2	16.8	12.6	3.5	7
	1/8	KQB2L04-01S	10		14.4	15.3	16.7		4.2	8.6
	1/4	KQB2L04-02S	14			19.1	18.9			17.5
$\phi 6$	M5 x 0.8	KQB2L06-M5	8	11.4	14.7	16.3	19	13.6	3.5	9
	1/8	KQB2L06-01S	10		15.9	16.4	21.2		11.4	10.2
	1/4	KQB2L06-02S	14			20.2	21.6			19.1
	3/8	KQB2L06-03S	17			21.6	22.2			31.2
$\phi 8$	1/8	KQB2L08-01S	12	13.7	18.6	18.3	22	16.1	21.6	14.8
	1/4	KQB2L08-02S	14		19.1	21.5	23.6			20.8
	3/8	KQB2L08-03S	17			22.9	24.6			32.8
$\phi 10$	1/8	KQB2L10-01S	12	16.6	20	19.7	24.9	17	21.6	20.4
	1/4	KQB2L10-02S	14		21	22.9	26.5		35.2	23.7
	3/8	KQB2L10-03S	17			24.3	27.5			34.5
	1/2	KQB2L10-04S	22			28.5	30.4			62.6
$\phi 12$	1/4	KQB2L12-02S	14	18.7	22.6	24	28.6	18.6	50.2	27.4
	3/8	KQB2L12-03S	17		23.6	25.3	29.5			34.3
	1/2	KQB2L12-04S	22			29.5	32.4			60.8
$\phi 16$	3/8	KQB2L16-03S	19	24.6	26.3	28	34.5	20.8	71	47
	1/2	KQB2L16-04S	22		27.3	31.8	37		100	62.6

* Reference dimensions after installation of R thread

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



Male Branch Tee: KQB2T



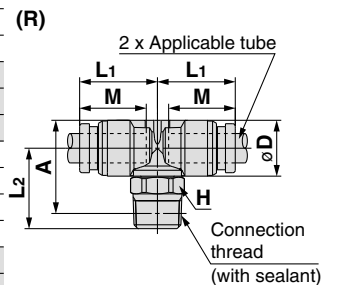
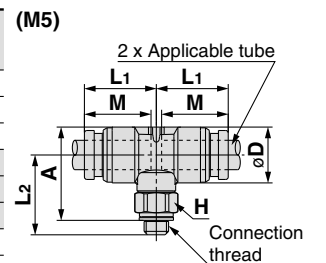
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) ϕD	L1	L2	A*	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	M5 x 0.8	KQB2T23-M5	8	8.3	13.1	14.8	16	12	3.2	8.2
	1/8	KQB2T23-01S	10		13.6	14.9	15.9		3.4	9.6
	1/4	KQB2T23-02S	14			18.7	18.1			18.4
$\phi 4$	M5 x 0.8	KQB2T04-M5	8	9.1	13.7	15.2	16.8	12.6	4.5	9.1
	1/8	KQB2T04-01S	10		14.4	15.3	16.7		6	10.6
	1/4	KQB2T04-02S	14			19.1	18.9			19.4
$\phi 6$	M5 x 0.8	KQB2T06-M5	8	11.4	14.7	16.3	19	13.6	4.5	12.1
	1/8	KQB2T06-01S	10		15.9	16.4	21.2		13.9	13.6
	1/4	KQB2T06-02S	14			20.2	21.6			22.5
	3/8	KQB2T06-03S	17			21.6	22.2			35
$\phi 8$	1/8	KQB2T08-01S	12	13.7	18.6	18.3	22	16.1	26.3	20
	1/4	KQB2T08-02S	14		19.1	21.5	23.6			26.1
	3/8	KQB2T08-03S	17			22.9	24.6			38
$\phi 10$	1/8	KQB2T10-01S	12	16.6	20	19.7	24.9	17	40.8	28.6
	1/4	KQB2T10-02S	14		21	22.9	26.5			31.5
	3/8	KQB2T10-03S	17			24.3	27.5			42.4
	1/2	KQB2T10-04S	22			28.5	30.4			70.4
$\phi 12$	1/4	KQB2T12-02S	14	18.7	22.6	24	28.6	18.6	57.2	38.1
	3/8	KQB2T12-03S	17		23.6	25.3	29.5			39.7
	1/2	KQB2T12-04S	22			29.5	32.4			70.8
$\phi 16$	3/8	KQB2T16-03S	19	24.6	26.3	28	34.5	20.8	71	64.4
	1/2	KQB2T16-04S	22		27.3	31.8	37		100	79

* Reference dimensions after installation of R thread

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



Metal One-touch Fittings *Series KQB2*

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

Dimensions

Union Elbow: KQB2L

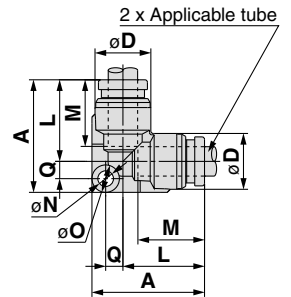


Applicable tube O.D. (mm)	Model	Note 1) ϕD	L	A	Q	M	ϕN	ϕO	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	KQB2L23-00	8.3	13.6	19.3	2.9	12	3.2	5.6	3	6.3
$\phi 4$	KQB2L04-00	9.1	14.6	20.5	3.1	12.6	3.2	5.6	4.2	7.4
$\phi 6$	KQB2L06-00	11.4	16.6	23	3.6	13.6	3.2	5.6	11.4	11
$\phi 8$	KQB2L08-00	13.7	20.1	29.1	5	16.1	4.2	8	21.6	20.2
$\phi 10$	KQB2L10-00	16.6	22	31.7	5.7	17	4.2	8	35.2	29.6
$\phi 12$	KQB2L12-00	18.7	24.6	35	6.4	18.6	4.2	8	50.2	37.1
$\phi 16$	KQB2L16-00	24.6	28.8	40.5	7.7	20.8	4.2	8	100	59.7

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



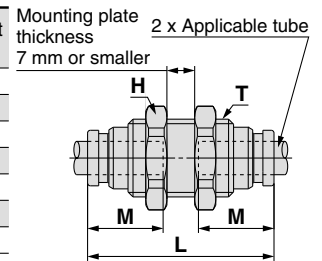
Bulkhead Union: KQB2E



Applicable tube O.D. (mm)	Model	T (M)	H (Width across flat)	L	Mounting hole	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	KQB2E23-00	M10 x 1	12	32.2	11	12	3.4	14.8
$\phi 4$	KQB2E04-00	M10 x 1	12	32.4	11	12.6	5.6	14.7
$\phi 6$	KQB2E06-00	M14 x 1	17	35.4	15	13.6	13.1	29.2
$\phi 8$	KQB2E08-00	M15 x 1	19	38.8	16	16.1	26.1	34.9
$\phi 10$	KQB2E10-00	M18 x 1	21	40	19	17	41.5	47.1
$\phi 12$	KQB2E12-00	M20 x 1	24	42.4	21	18.6	58.3	58.7
$\phi 16$	KQB2E16-00	M27 x 1	30	46.8	28	20.8	113	107.2

Note) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



Union Tee: KQB2T

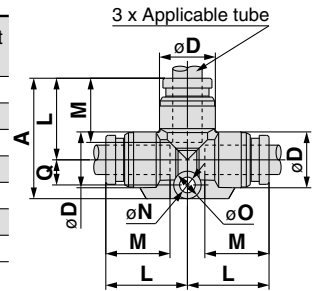


Applicable tube O.D. (mm)	Model	Note 1) ϕD	L	A	Q	M	ϕN	ϕO	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	KQB2T23-00	8.3	13.6	20.5	4.1	12	3.2	5.6	3.4	7.9
$\phi 4$	KQB2T04-00	9.1	14.6	21.8	4.4	12.6	3.2	5.6	6.4	9.5
$\phi 6$	KQB2T06-00	11.4	16.6	24.6	5.2	13.6	3.2	5.6	13.4	14.2
$\phi 8$	KQB2T08-00	13.7	20.1	31.1	7	16.1	4.2	8	25.6	24.4
$\phi 10$	KQB2T10-00	16.6	22	34	8	17	4.2	8	40	36.8
$\phi 12$	KQB2T12-00	18.7	24.6	37.7	9.1	18.6	4.2	8	57.4	47
$\phi 16$	KQB2T16-00	24.6	28.8	43.4	10.6	20.8	4.2	8	100	75.5

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



Union "Y": KQB2U

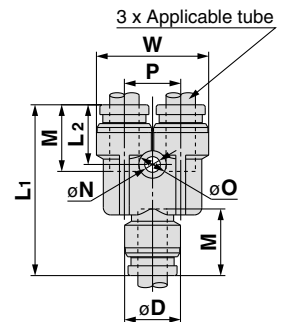


Applicable tube O.D. (mm)	Model	Note 1) ϕD	W	L1	L2	P	M	ϕN	ϕO	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	KQB2U23-00	8.3	16.4	29	11	8.1	12	3.2	5.6	3.4	9.2
$\phi 4$	KQB2U04-00	9.1	18.2	30.4	11.3	9.1	12.6	3.2	5.6	4.2	11.1
$\phi 6$	KQB2U06-00	11.4	22.9	34.9	12.2	11.5	13.6	3.2	5.6	13.4	18.8
$\phi 8$	KQB2U08-00	13.7	28.3	40.1	14.1	14.6	16.1	4.2	8	25.6	29.7
$\phi 10$	KQB2U10-00	16.6	34.2	44	14.4	17.6	17	4.2	8	40	47.4
$\phi 12$	KQB2U12-00	18.7	38.5	48.4	15.8	19.8	18.6	4.2	8	57.4	62.1
$\phi 16$	KQB2U16-00	24.6	49.3	56.6	17.3	26	20.8	4.2	8	113	110.2

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.



Series KQB2

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

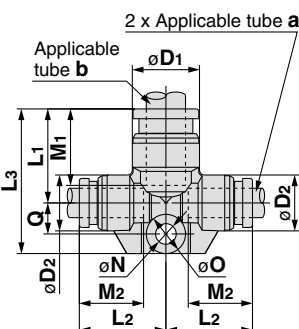
Dimensions

Different Diameter Tee: KQB2T



Applicable tube O.D. (mm)		Model	Note 1) øD1	Note 1) øD2	L1	L2	L3	Q	M1	M2	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
a	b													
ø3.2	ø4	KQB2T23-04	9.1	8.3	14.2	14.1	21.1	4.1	12.6	12	3.2	5.6	3.8	8.5
ø4	ø6	KQB2T04-06	11.4	9.1	15.6	15.7	22.8	4.4	13.6	12.6	3.2	5.6	7.1	11
ø6	ø8	KQB2T06-08	13.7	11.4	19.1	17.7	29.5	6.4	16.1	13.6	4.2	8	16.4	20
ø8	ø10	KQB2T08-10	16.6	13.7	21	21.2	32.1	7.1	17	16.1	4.2	8	36	29.8
ø10	ø12	KQB2T10-12	18.7	16.6	23.6	23.1	35.7	8.1	18.6	17	4.2	8	56	41.3
ø12	ø16	KQB2T12-16	24.6	18.7	26.8	26.7	39.9	9.1	20.8	18.6	4.2	8	108.5	58

Note 1) øD1, øD2 are maximum diameters.
Note 2) Value of FEP tube.

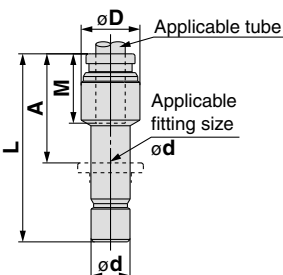


Plug-in Reducer: KQB2R



Applicable tube O.D. (mm)	Applicable fitting size ød	Model	Note 1) øD	L	A	M	Note 2) Effective area (mm²)	Weight (g)
ø3.2	ø4	KQB2R23-04	9	32.9	20.3	12	3.4	4.9
ø4	ø6	KQB2R04-06	9	34.4	20.8	12.6	5.6	7
ø6	ø8	KQB2R06-08	12	38.4	22.3	13.6	13.1	12.7
ø8	ø10	KQB2R08-10	14	41.9	24.9	16.1	26.1	19.2
ø10	ø12	KQB2R10-12	17	44.8	26.2	17	41.5	27.8
ø12	ø16	KQB2R12-16	19	42.9	22.1	18.6	58.3	37.2

Note 1) øD is maximum diameter.
Note 2) Value of FEP tube.

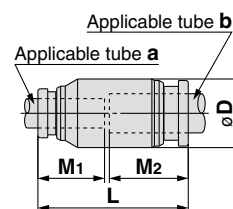


Different Diameter Straight: KQB2H



Applicable tube O.D. (mm)		Model	øD Note 1)	L	M1	M2	Note 2) Effective area (mm²)	Weight (g)
a	b							
ø3.2	ø4	KQB2H23-04	9	25.6	12	12.6	3.4	6.8
ø4	ø6	KQB2H04-06	12	27.2	12.6	13.6	5.6	12.1
ø6	ø8	KQB2H06-08	14	30.7	13.6	16.1	13.1	17.1
ø8	ø10	KQB2H08-10	17	34.1	16.1	17	26.1	27.2
ø10	ø12	KQB2H10-12	19	36.6	17	18.6	41.5	34.8
ø12	ø16	KQB2H12-16	24.6	40.4	18.6	20.8	58.3	57.3

Note 1) øD is maximum diameter.
Note 2) Value of FEP tube.

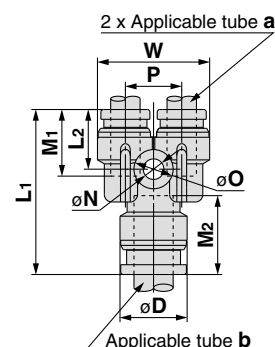


Different Diameter Union "Y": KQB2U



Applicable tube O.D. (mm)		Model	Note 1) øD	L1	L2	P	W	M1	M2	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
a	b												
ø3.2	ø4	KQB2U23-04	9.1	27	10.8	8.1	16.4	12	12.6	3.2	5.6	3.2	8.5
ø4	ø6	KQB2U04-06	11.4	29.3	11.2	9.1	18.2	12.6	13.6	3.2	5.6	4.2	11.9
ø6	ø8	KQB2U06-08	13.7	33.7	12.2	11.5	22.9	13.6	16.1	4.2	8	13.4	19.3
ø8	ø10	KQB2U08-10	16.6	38.3	13.8	14.6	28.3	16.1	17	4.2	8	25.6	32
ø10	ø12	KQB2U10-12	18.7	43	14	17.6	34.2	17	18.6	4.2	8	40	47.6
ø12	ø16	KQB2U12-16	24.6	47.4	15.6	19.8	38.5	18.6	20.8	4.2	8	57.4	67.6

Note 1) øD is maximum diameter.
Note 2) Value of FEP tube.



Metal One-touch Fittings *Series KQB2*

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

Dimensions

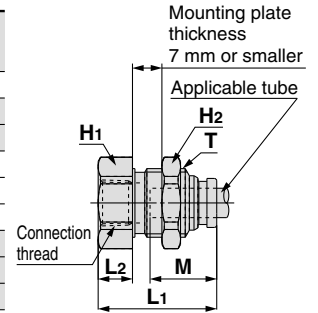
Bulkhead Connector: KQB2E



Applicable tube O.D. (mm)	Connection thread Rc	Model	T (M)	Width across flat		L1	L2	Mounting hole	M	Note) Effective area (mm ²)	Weight (g)
				H1	H2						
ø3.2	1/4	KQB2E23-02	M10 x 1	17	12	31	14.8	11	12	3.4	27.5
ø4	1/8	KQB2E04-01	M10 x 1	14	12	25.8	9.7	11	12.6	5.6	16.9
	1/4	KQB2E04-02		17	12	30.9	14.8				27.1
ø6	1/8	KQB2E06-01	M14 x 1	17	17	24.2	6.1	15	13.6	13.1	25
	1/4	KQB2E06-02		17	17	31.6	13.5				33.2
	3/8	KQB2E06-03		19	17	33	14.9				34.8
ø8	1/8	KQB2E08-01	M15 x 1	17	19	26.3	6.9	16	16.1	26.1	28.7
	1/4	KQB2E08-02		17	19	32.4	13				34.2
	3/8	KQB2E08-03		19	19	34	14.6				35.9
ø10	1/4	KQB2E10-02	M18 x 1	19	21	31.6	11.6	19	17	41.5	44
	3/8	KQB2E10-03		19	21	33.6	13.6				40.2
ø12	3/8	KQB2E12-03	M20 x 1	21	24	34	12.8	21	18.6	58.3	52
	1/2	KQB2E12-04		24	24	39.6	18.4				62.5
ø16	3/8	KQB2E16-03	M27 x 1	29	30	35.3	11.2	28	20.8	96	111
	1/2	KQB2E16-04		29	30	40.6	16.5			113	118.2

Note) Value of FEP tube.

Value of nylon tube for ø16 only.



Extended Male Elbow: KQB2W



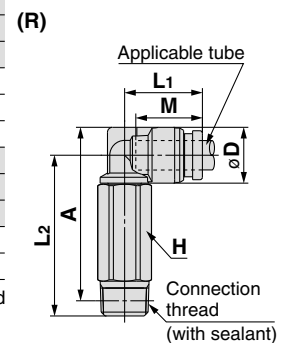
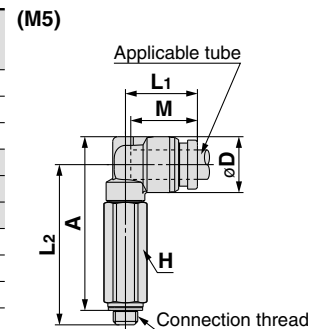
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) øD	L1	L2	A*	M	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	M5 x 0.8	KQB2W23-M5	8	8.3	13.1	31.2	32.4	12	2.8	13.5
	1/8	KQB2W23-01S	10		13.6	31.3	32.3			15.3
	1/4	KQB2W23-02S	14		13.7	31.6	33.2			34.7
ø4	M5 x 0.8	KQB2W04-M5	8	9.1	14.4	31.7	33.1	12.6	3	14.1
	1/8	KQB2W04-01S	10		14.4	31.7	33.1		4	16.2
	1/4	KQB2W04-02S	14		14.4	35.5	35.3		4	35.6
ø6	M5 x 0.8	KQB2W06-M5	8	11.4	14.7	32.7	35.4	13.6	3	16
	1/8	KQB2W06-01S	10		15.9	32.8	37.6		10.9	17.8
	1/4	KQB2W06-02S	14		15.9	36.6	37.6		10.9	37.2
	3/8	KQB2W06-03S	17		15.9	38	38.6		10.9	60.3
ø8	1/8	KQB2W08-01S	12	13.7	18.6	37	40.7	16.1	20.5	28.9
	1/4	KQB2W08-02S	14		19.1	40.2	42.3			39.2
	3/8	KQB2W08-03S	17		19.1	41.6	43.3			63.7
ø10	1/4	KQB2W10-02S	14	16.6	21	46.6	50.2	17	33.5	42.1
	3/8	KQB2W10-03S	17		21	45.9	49.1			64.5
	1/2	KQB2W10-04S	22		21	50.1	52			123
ø12	1/4	KQB2W12-02S	14	18.7	22.6	47.7	52.3	18.6	47.7	46
	3/8	KQB2W12-03S	17		23.6	49	53.2			58.2
	1/2	KQB2W12-04S	22		23.6	53.2	56.1			118
ø16	3/8	KQB2W16-03S	19	24.6	26.3	57.6	64.1	20.8	71	89.6
	1/2	KQB2W16-04S	22		27.3	61.4	66.6		100	116

* Reference dimensions after installation of R thread

Note 1) øD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for ø16 only.



Series KQB2

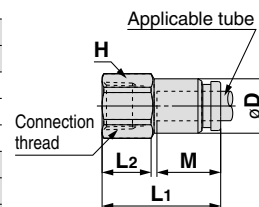
Applicable Tube: Metric Size, Connection Thread: M, R, Rc

Dimensions

Female Connector: KQB2F



Applicable tube O.D. (mm)	Connection thread Rc	Model	H (Width across flat)	Note 1) ϕD	L1	L2	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	1/8	KQB2F23-01	12	8	23.3	9.8	12	3.4	9.3
$\phi 4$	1/8	KQB2F04-01	12	8.7	23.7	9.8	12.6	5.6	9.7
	1/4	KQB2F04-02	17		28.7	13.2			22.7
$\phi 6$	1/8	KQB2F06-01	12	11.1	24.2	10	13.6	13.1	11.1
	1/4	KQB2F06-02	17		29.2	13.4			24.3
	3/8	KQB2F06-03	19		30.6	14.2			25.8
$\phi 8$	1/8	KQB2F08-01	14	13.4	26.3	9.6	16.1	26.1	17.1
	1/4	KQB2F08-02	17		31.3	13.7			26.8
	3/8	KQB2F08-03	19		32.7	14.4			28.4
$\phi 10$	1/4	KQB2F10-02	17	16.4	31.6	13.9	17	41.5	30.3
	3/8	KQB2F10-03	19		33	14.7			32
$\phi 12$	1/4	KQB2F12-02	19	18.5	32.6	13.3	18.6	58.3	39.4
	3/8	KQB2F12-03			34	14.7			33.9
	1/2	KQB2F12-04	24		39.3	18.4			52.9
$\phi 16$	3/8	KQB2F16-03	24	24.6	35.3	13.5	20.8	81	62.8
	1/2	KQB2F16-04			40.6	18.8		113	59.9



Note 1) ϕD is maximum diameter.

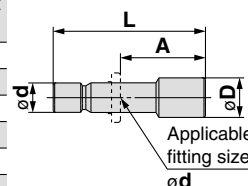
Note 2) Value of FEP tube.

Value of nylon tube for $\phi 16$ only.

Plug: KQB2P



Applicable fitting size ϕd	Model	ϕD	L	A	Weight (g)
$\phi 3.2$	KQB2P-23	5	28.9	16.9	2.8
$\phi 4$	KQB2P-04	6	29.6	17	4.3
$\phi 6$	KQB2P-06	8	30.8	17.2	9
$\phi 8$	KQB2P-08	10	33.7	17.6	16.3
$\phi 10$	KQB2P-10	12	34.6	17.6	25.4
$\phi 12$	KQB2P-12	14	36.5	17.9	37.8
$\phi 16$	KQB2P-16	18	38.6	17.8	69.2



Metal One-touch Fittings

Applicable Tube: Inch Size, Connection Thread: UNF, NPT

Series *KQB2*

RoHS



Applicable Tube

Tube material	FEP, PFA, Nylon, Soft nylon ^{Note 1)} , Polyurethane, Polyolefin
Tube O.D.	ø1/8", ø5/32", ø1/4", ø5/16", ø3/8", ø1/2"

Specifications

Fluid	Air, Water
Operating pressure range ^{Note 2)}	–100 kPa to 1 MPa ^{Note 3)}
Proof pressure	3.0 MPa
Ambient and fluid temperature ^{Note 4)}	–5 to 150°C (No freezing) ^{Note 3)}
Lubricant	Grease-free specification
Seal on the threads	With sealant

Note 1) For soft nylon tube, water cannot be used.

Note 2) Avoid using in a vacuum holding application such as a leak tester, since there is leakage.

Note 3) Check the operating pressure range and operating temperature range of the tube.

Note 4) It is recommended that you use the inner sleeve in the following conditions (Except ø1/8"):

- When using in an environment where the fluid temperature changes drastically.
- When using at a high temperature.

* Temperature Condition of Mounting the Inner Sleeve

Tube	Temperature
FEP tube/TH series	80°C or more
PFA tube/TL series	120°C or more

Spare Parts

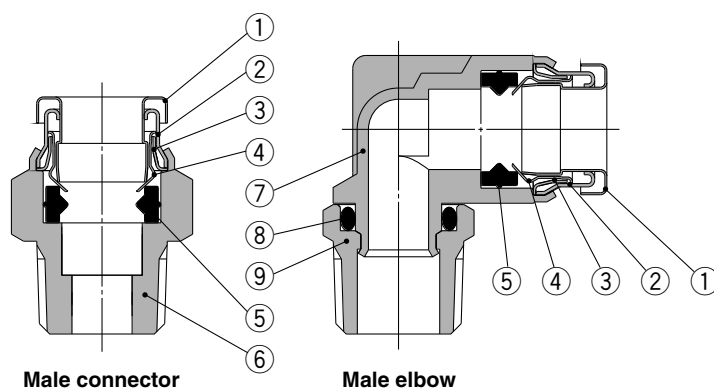
Description	Tube O.D.	Part no.	Material
Gasket	—	M-5G3	Stainless steel 316, Special FKM
Bulkhead nut	ø1/8" ø5/32"	KQB201-P01	C3604 (Electroless nickel plated)
	ø1/4"	KQB207-P01	
	ø5/16"	KQB209-P01	
	ø3/8"	KQB211-P01	
	ø1/2"	KQB213-P01	

Cross Reference Table of the Inner Sleeve

Tube O.D.	Tube material		Applicable inner sleeve	
	TH/THI (FEP)	TL/TIL (PFA)	Part no.	Length
ø5/32"	TH0402	—	TJ-0402	18
	TH0425	—	TJ-0425	18
	—	TL0403	TJ-0403	18
ø1/4"	THB07	TIL07	TJ-0604	19
	THA07	—	TJ-0746	19
ø5/16"	TH0806	TL0806	TJ-0806	20.5
ø3/8"	THB11	TIL11	TJ-1065	23
	THA11	—	TJ-1107	23
ø1/2"	TH13	TIL13	TJ-1395	24

* C2700 + Electroless nickel plated is used for the TJ series.

Construction



Component Parts

No.	Description	Material
1	Release button	Stainless steel 304
2	Guide 1	Stainless steel 304
3	Guide 2	Stainless steel 304
4	Chuck	Stainless steel 304
5	Seal	Special FKM (Fluoro coated)
6	Male connector body	C3604 (Electroless nickel plated)
7	Male elbow body	Stainless steel 316
8	O-ring	Special FKM (Fluoro coated)
9	Stud	C3604 (Electroless nickel plated)

Series KQB2

Applicable Tube: Inch Size, Connection Thread: UNF, NPT

Dimensions

Male Connector: KQB2H



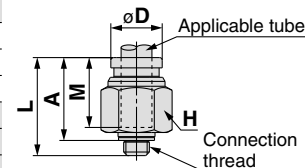
Applicable tube O.D. (inch)	Connection thread UNF, NPT	Model	H (Width across flat)	Note 1) ϕD	L	A*	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 1/8"$	10-32UNF	KQB2H01-32	8	8	16.5	13.5	12	3	3.5
	1/8	KQB2H01-N01S	11.11		17.1	13.9		3.4	7.9
	1/4	KQB2H01-N02S	14.29		20.9	16.5			18
$\phi 5/32"$	10-32UNF	KQB2H03-32	11.11	8.7	17.1	14.1	12.6	4	6.5
	1/8	KQB2H03-N01S			17	13.8		5.6	7.4
	1/4	KQB2H03-N02S			20.9	16.5			17.5
$\phi 1/4"$	10-32UNF	KQB2H07-32	12.7	11.2	19	16	13.5	4	9
	1/8	KQB2H07-N01S			20	16.8		13.1	9.8
	1/4	KQB2H07-N02S			20.6	16.2			15.1
	3/8	KQB2H07-N03S			23.8	19.1			31
$\phi 5/16"$	1/8	KQB2H09-N01S	14.29	13.4	24.2	21	16.1	26.1	13.8
	1/4	KQB2H09-N02S			23.1	18.7			14.9
	3/8	KQB2H09-N03S			24.6	19.9			28.3
	1/2	KQB2H11-N04S			28.3	21.9			55
$\phi 3/8"$	1/8	KQB2H11-N01S	17.46	16	25	21.8	16.6	26.1	21.5
	1/4	KQB2H11-N02S			26.3	21.9			22.3
	3/8	KQB2H11-N03S			23.6	18.9			24.4
	1/2	KQB2H11-N04S			28.3	21.9			55
$\phi 1/2"$	1/4	KQB2H13-N02S	22.23	19.3	30.5	26.1	18.5	58.3	39.4
	3/8	KQB2H13-N03S			28.4	23.7			36.8
	1/2	KQB2H13-N04S				22			46.1

* Reference dimensions after installation of NPT thread

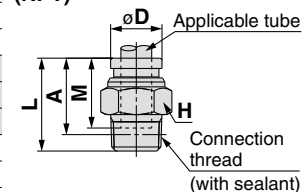
Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

(10-32UNF)



(NPT)



Hexagon Socket Head Male Connector: KQB2S



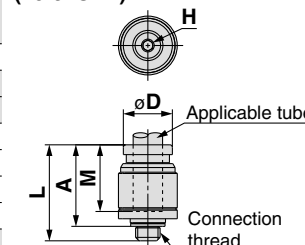
Applicable tube O.D. (inch)	Connection thread UNF, NPT	Model	H (Width across flat)	Note 1) øD	L	A*	M	Note 2) Effective area (mm ²)	Weight (g)	
ø1/8"	10-32UNF	KQB2S01-32	2	9	16.5	13.5	12	3	3.9	
ø5/32"	10-32UNF	KQB2S03-32	2	9	17.1	14.1	12.6	4	3.9	
	1/8	KQB2S03-N01S	2.78	11	21.4	18.2		4.1	8.9	
ø1/4"	10-32UNF	KQB2S07-32	2	12	19.5	16.5	13.5	4	7.5	
	1/8	KQB2S07-N01S	4.76		14	20.5		17.3	10	8.5
	1/4	KQB2S07-N02S		18		21.5		16.8	10.7	14.1
	3/8	KQB2S07-N03S		18	21.5	16.8			23.8	
ø5/16"	1/8	KQB2S09-N01S	5.56	14	24.7	21.5	16.1	17.2	12.6	
	1/4	KQB2S09-N02S	6.35		23.1	18.7		23.3	13.4	
	3/8	KQB2S09-N03S		18		18.4			24.7	
ø3/8"	1/8	KQB2S11-N01S	5.56	17	25.2	22	16.6	17.2	18.7	
	1/4	KQB2S11-N02S	6.35		18	27.1		22.7		22.2
	3/8	KQB2S11-N03S		22		23.6		18.9	39	25
	1/2	KQB2S11-N04S		22	23.6	17.2			40.6	
ø1/2"	1/4	KQB2S13-N02S	8	20	30.5	26.1	18.5	46	27.9	
	3/8	KQB2S13-N03S	9.53		22	29.4		24.7	60	30.4
	1/2	KQB2S13-N04S				25.5		19.1		36.5

* Reference dimensions after installation of NPT thread

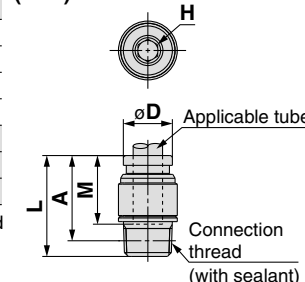
Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

(10-32UNF)



(NPT)



Straight Union: KQB2H



Applicable tube O.D. (inch)	Model	ϕD Note 1)	L	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 1/8"$	KQB2H01-00	9	25	12	3.4	6.8
$\phi 5/32"$	KQB2H03-00	9	26.2	12.6	5.6	6.8
$\phi 1/4"$	KQB2H07-00	12	28	13.5	13.1	11.5
$\phi 5/16"$	KQB2H09-00	14	33.2	16.1	26.1	17.4
$\phi 3/8"$	KQB2H11-00	16	34.2	16.6	41.5	23.7
$\phi 1/2"$	KQB2H13-00	20	38	18.5	58.3	37

Note 1) ϕD is maximum diameter.

Note 2) Value of FEP tube.

