

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

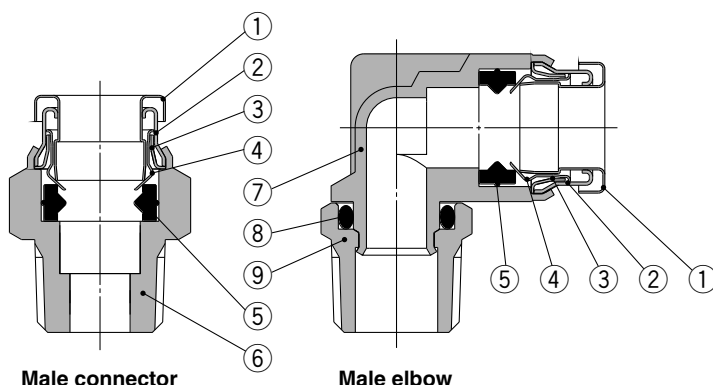
Description	Tube O.D.	Part no.	Material
Gasket	—	M-5G3	Stainless steel 316, Special FKM
Bulkhead nut	ø3.2 ø4	KQB223-P01	C3604 (Electroless nickel plated)
	ø6	KQB206-P01	
	ø8	KQB208-P01	
	ø10	KQB210-P01	
	ø12	KQB212-P01	
	ø16	KQB216-P01	

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
ø6	—	—	TL0403	TJ-0403	18
	TUS0604	TH0604	TL0604	TJ-0604	19
ø8	TUS0805	—	—	TJ-0805	20.5
	—	TH0806	TL0806	TJ-0806	20.5
ø10	TUS1065	—	—	TJ-1065	23
	—	TH1075	—	TJ-1075	23
ø12	—	TH1008	TL1008	TJ-1008	23
	TUS1208	—	—	TJ-1208	24
ø16	—	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



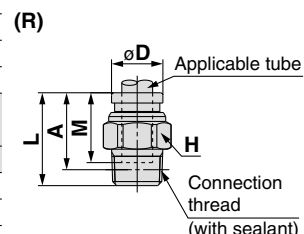
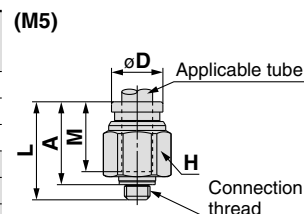
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) ϕD	L	A*	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	M5 x 0.8	KQB2H23-M5	8	8	16.5	13.5	12	3	3.4
	1/8	KQB2H23-01S	10		15.4	12.3		3.4	6
	1/4	KQB2H23-02S	14		21	16.3			17.8
$\phi 4$	M5 x 0.8	KQB2H04-M5	10	8.7	17.1	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



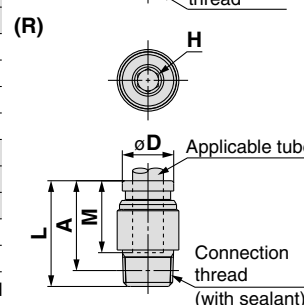
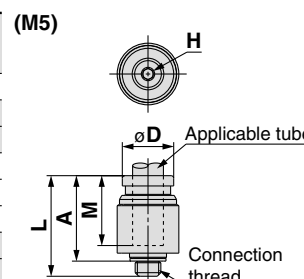
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) ϕD	L	A*	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 3.2$	M5 x 0.8	KQB2S23-M5	2	9	16.5	13.5	12	3	4
$\phi 4$	M5 x 0.8	KQB2S04-M5	2	9	17.1	14.1	12.6	4	3.9
	1/8	KQB2S04-01S	3	10	20.4	17.3		4.1	7.9
$\phi 6$	M5 x 0.8	KQB2S06-M5	2	12	19.6	16.6	13.6	4	7.8
	1/8	KQB2S06-01S	4		20.6	17.5		10	9.1
	1/4	KQB2S06-02S	4			15.9		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.

