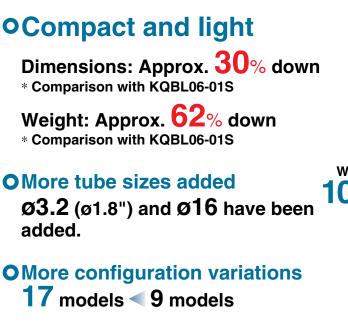


CAT.ES50-34A



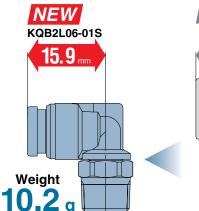


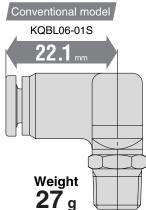
- OInch size x UNF/NPT thread, Metric size x G thread added
- O Applicable tube size ø3.2 to ø16, ø1/8" to ø1/2"

OConnection thread: M, R, Rc, UNF, NPT, G

OFluid temperature: -5 to 150°C

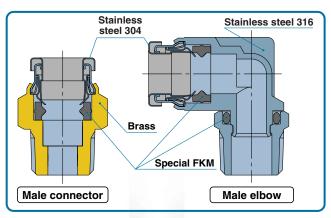
OGrease-free





O Applicable tube material FEP • PFA • Nylon • Soft nylon Polyurethane • Polyolefin

OElectroless nickel plated (Brass parts)





Variations

Male ConnectorKQB2HImage: Ward of the second secon	Bulkhead Union KQB2E Metric ······ P. 5 Inch····· P. 12	Different Diameter Union "Y" KQB2U Image: Weight of the second
Hexagon Socket Head Male Connector KQB2S Metric R thread ····· P. 3 G thread ···· P. 16 Inch ····· P. 10	Union Tee KQB2T Metric P. 5 Inch P. 12	Bulkhead Connector KQB2E Metric Rc threadP. 7 G threadP. 18 InchP. 13
Straight Union KQB2H Metric ····· P. 3 Inch ····· P. 10	Union "Y" KQB2U Metric P. 5 Inch P. 12	Extended Male Elbow KQB2W Metric R thread ···· P. 7 G thread ··· P. 18 Inch ······ P. 13
Male ElbowKQB2LImage: Main of the second se	Different Diameter Tee KQB2T Metric ······ P. 6 Inch····· P. 12	Female Connector KQB2F Metric Rc thread P. 8 G thread P. 18
Male Branch Tee KQB2T Metric R thread ···· P. 4 G thread ··· P. 17 Inch ····· P. 11	Plug-in Reducer KQB2R Metric P. 6 Inch P. 12	Plug KQB2P Metric P. 14
Union Elbow KQB2L Metric	Different Diameter Straight KQB2H Metric ······ P. 6 Inch····· P. 13	



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

Series KQB2





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

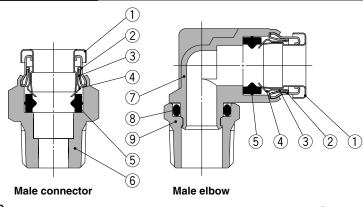
Tube	Temperature
FEP tube/TH series	80°C or more
PFA tube/TL series	120°C or more

Cross Reference Table of the Inner Sleeve

Tube		Tube material		Applicable i	Applicable inner sleeve			
O.D.	TUS (Soft polyurethane)	TH/TIH (FEP)	TL/TIL (PFA)	Part no.	Length			
	_	TH0402	_	TJ-0402	18			
ø4	TUS0425	TH0425	_	TJ-0425	18			
	_	—	TL0403	TJ-0403	18			
ø6	TUS0604	TH0604	TL0604	TJ-0604	19			
ø8	TUS0805	—	-	TJ-0805	20.5			
00	—	TH0806	TL0806	TJ-0806	20.5			
	TUS1065	—	-	TJ-1065	23			
ø10	_	TH1075	-	TJ-1075	23			
	—	TH1008	TL1008	TJ-1008	23			
	TUS1208	_		TJ-1208	24			
ø12	_	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)

Spare Parts

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

Male Connector: KQB2H



INGU										
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) Ø D	L	A *	м	Note 2) Effective area (mm ²)	Weight (g)	(M5) I⊣ ^Ø D⊢ Applicable tube
	M5 x 0.8	KQB2H23-M5	8		16.5	13.5		3	3.4	
ø 3.2	1/8	KQB2H23-01S	10	8	15.4	12.3	12	0.4	6	
	1/4	KQB2H23-02S	14		21	16.3]	3.4	17.8	
	M5 x 0.8	KQB2H04-M5	10		17.1	14.1		4	5.3	── ─ │ ↓ <u>↓ ↓ ↓ ↓ ↓ ↓ ↓</u>
ø 4	1/8	KQB2H04-01S	10	8.7	15.3	12.2	12.6	5.6	5.6	Connection
	1/4	KQB2H04-02S	14		20.9	16.2		5.0	17.2	thread
	M5 x 0.8	KQB2H06-M5	12		19.1	16.1		4	8	
ø 6	1/8	KQB2H06-01S	12	11.1	18.1	15	13.6		7.3	(R)
00	1/4	KQB2H06-02S	14	11.1	20.8	16.1	13.0	13.1	15.2	Applicable tube
	3/8	KQB2H06-03S	17		23	17.9			28.8	
	1/8	KQB2H08-01S	14		24.5	21.4			13.5	
ø 8	1/4	KQB2H08-02S	14	13.4	22.3	17.6	16.1	26.1	13.5	
	3/8	KQB2H08-03S	17		23.7	18.6			26	
	1/8	KQB2H10-01S			25.5	22.4		26.1	19.8	
ø 10	1/4	KQB2H10-02S	17	16.4	27.9	23.2	17		22.7	(with sealant)
010	3/8	KQB2H10-03S		10.4	23	17.9	17	41.5	21.6	(with sealant)
	1/2	KQB2H10-04S	22		28.6	22.2			53.9	
	1/4	KQB2H12-02S	19		30.5	25.8			28.8	
ø 12	3/8	KQB2H12-03S	19	18.5	24.7	19.6	18.6	58.3	21.5	
	1/2	KQB2H12-04S	22		28.7	22.3			47	
ø 16	3/8	KQB2H16-03S	24	24.6	33.6	28.5	20.8	81	48.3	
010	1/2	KQB2H16-04S	24	24.0	29.5	23.1	20.0	113	39.2	
				* Refere	ence dim	ensions	after inst	allation of	R thread	

Note 1) øD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for ø16 only.

Hexagon Socket Head Male Connector: KQB2S -



Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) Ø D	L	A *	м	Note 2) Effective area (mm ²)	Weight (g)	(M5)	
ø 3.2	M5 x 0.8	KQB2S23-M5	2	9	16.5	13.5	12	3	4		
ø 4	M5 x 0.8	KQB2S04-M5	2	9	17.1	14.1	12.6	4	3.9	*	
Ø 4	1/8	KQB2S04-01S	3	10	20.4	17.3	12.0	4.1	7.9	ø D Applicable t	ube
	M5 x 0.8	KQB2S06-M5	2	12	19.6	16.6		4	7.8		
ø 6	1/8	KQB2S06-01S	4	12	20.6	17.5	13.6	10	9.1		
	1/4	KQB2S06-02S	4	14	20.0	15.9		10.7	14.7		
	1/8	KQB2S08-01S	5	14	24.7	21.6		17.2	13	Connection	
ø 8	1/4	KQB2S08-02S	6	14	22.9	18.2	16.1	23.3	13.5	thread	
	3/8	KQB2S08-03S	0	17	23.1	18		23.3	24	(R)	-
	1/8	KQB2S10-01S	5		25.6	22.5		17.2	18.6	H H	
ø 10	1/4	KQB2S10-02S		17	27.5	22.8	17		20		
010	3/8	KQB2S10-03S	8		24	18.9		39	22		
	1/2	KQB2S10-04S		22	24	17.6			39.2		
	1/4	KQB2S12-02S	8	19	30.6	25.9		46	26	ØD Applicable t	ube
ø 12	3/8	KQB2S12-03S	10	19	24.9	19.8	18.6	60	20.2		
	1/2	KQB2S12-04S	10	22	24.9	18.5		00	35.3		
ø 16	3/8	KQB2S16-03S	10	24.6	33.2	28.1	20.8	81	43.6		
010	1/2	KQB2S16-04S	12	24.0	29.4	23	20.0	113	40.3	Connection	ı
* Reference dimensions after installation of R thread Note 1) cP is maximum diameter											nt)

leterend Note 1) øD is maximum diameter.

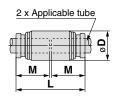
Note 2) Value of FEP tube.

Value of nylon tube for ø16 only.

Straight Union: KQB2H



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



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

Value of nylon tube for ø16 only.

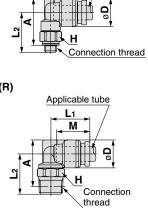
Applicable Tube: Metric Size, Connection Thread: M, R, Rc

Dimensions

Male Elbow: KQB2L



Applicable tube O.D. (mm)	Connection thread R, M	Model	(Width across flat)	Note 1) Ø D	L1	L2	A *	М	Note 2) Effective area (mm ²)	Weight (g)	(M5)
	M5 x 0.8	KQB2L23-M5	8		13.1	14.8	16		2.6	6.5	
ø 3.2	1/8	KQB2L23-01S	10	8.3	13.6	14.9	15.9	12	3	8	
	1/4	KQB2L23-02S	14		13.0	18.7	18.1		3	16.6	
	M5 x 0.8	KQB2L04-M5	8		13.7	15.2	16.8		3.5	7	Ţ
ø 4	1/8	KQB2L04-01S	10	9.1	14.4	15.3	16.7	12.6	4.2	8.6	۔ ۲
	1/4	KQB2L04-02S	14		14.4	19.1	18.9		4.2	17.5	
	M5 x 0.8	KQB2L06-M5	8		14.7	16.3	19		3.5	9	<u>*</u>
~6	1/8	KQB2L06-01S	10	11.4		16.4	19	13.6	11.4	10.2	
ø 6	1/4	KQB2L06-02S	14		15.9	20.2	21.2	13.0		19.1	
	3/8	KQB2L06-03S	17			21.6	22.2			31.2	(R)
	1/8	KQB2L08-01S	12		18.6	18.3	22			14.8	
ø 8	1/4	KQB2L08-02S	14	13.7	19.1	21.5	23.6	16.1	21.6	20.8	
	3/8	KQB2L08-03S	17		19.1	22.9	24.6			32.8	
	1/8	KQB2L10-01S	12		20	19.7	24.9		21.6	20.4	
ø 10	1/4	KQB2L10-02S	14	16.6		22.9	26.5	17		23.7	
ØIU	3/8	KQB2L10-03S	17	10.0	21	24.3	27.5		35.2	34.5	۲
	1/2	KQB2L10-04S	22			28.5	30.4			62.6	_
	1/4	KQB2L12-02S	14		22.6	24	28.6			27.4	<u> </u>
ø 12	3/8	KQB2L12-03S	17	18.7	00.0	25.3	29.5	18.6	50.2	34.3	
	1/2	KQB2L12-04S	22		23.6	29.5	32.4			60.8	
~16	3/8	KQB2L16-03S	19	24.6	26.3	28	34.5	20.8	71	47	
ø 16	1/2	KQB2L16-04S	22	24.0	27.3	31.8	37	20.8	100	62.6	
				* Re	ference	dimen	sions af	ter insta	allation of	R thread	



Applicable tube L1 М

(with sealant)

Note 1) øD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for ø16 only.

Male Branch Tee: KQB2T -



Applicable tube O.D. (mm)	Connection thread R, M	Model	(Width across flat)	Note 1) Ø D	L1	L2	A *	м	Note 2) Effective area (mm ²)	Weight (g)	(M5)
	M5 x 0.8	KQB2T23-M5	8		13.1	14.8	16		3.2	8.2	
ø 3.2	1/8	KQB2T23-01S	10	8.3	13.6	14.9	15.9	12	3.4	9.6	
	1/4	KQB2T23-02S	14]	13.0	18.7	18.1]	3.4	18.4	
	M5 x 0.8	KQB2T04-M5	8		13.7	15.2	16.8		4.5	9.1	
ø 4	1/8	KQB2T04-01S	10	9.1	14.4	15.3	16.7	12.6	6	10.6	
	1/4	KQB2T04-02S	14		14.4	19.1	18.9		0	19.4	
	M5 x 0.8	KQB2T06-M5	8		14.7	16.3	19		4.5	12.1	Connection
ø 6	1/8	KQB2T06-01S	10	11.4		16.4	19	13.6		13.6	
ØØ	1/4	KQB2T06-02S	14	11.4	11.4 15.9	20.2	21.2	13.6	13.9	22.5	(R)
	3/8	KQB2T06-03S	17			21.6	22.2			35	2 x Applicable tube
	1/8	KQB2T08-01S	12		18.6	18.3	22			20	
ø 8	1/4	KQB2T08-02S	14	13.7	19.1	21.5	23.6	16.1	26.3	26.1	
	3/8	KQB2T08-03S	17		19.1	22.9	24.6			38	
	1/8	KQB2T10-01S	12		20	19.7	24.9			28.6	
ø 10	1/4	KQB2T10-02S	14	16.6		22.9	26.5	17	40.8	31.5	
ØIU	3/8	KQB2T10-03S	17	10.0	21	24.3	27.5		40.0	42.4	
	1/2	KQB2T10-04S	22			28.5	30.4			70.4	Connection
	1/4	KQB2T12-02S	14		22.6	24	28.6			38.1	(with applant)
ø 12	3/8	KQB2T12-03S	17	18.7	23.6	25.3	29.5	18.6	57.2	39.7	(with sealant)
	1/2	KQB2T12-04S	22		23.0	29.5	32.4			70.8	
ø16	3/8	KQB2T16-03S	19	24.6	26.3	28	34.5	20.8	71	64.4	
010	1/2	KQB2T16-04S	22	24.0	27.3	31.8	37	20.0	100	79	

 \ast Reference dimensions after installation of R thread

Note 1) øD is maximum diameter.

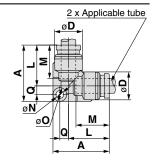
Note 2) Value of FEP tube.

Value of nylon tube for ø16 only.

Union Elbow: KQB2L



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



Note 1) øD is maximum diameter. Note 2) Value of FEP tube. Value of nylon tube for ø16 only.

Bulkhead Union: KQB2E

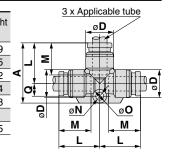
	Applicable tube O.D. (mm)	Model	T (M)	H (Width across flat)	L	Mounting hole	М	Note 2) Effective area (mm ²)	Weight (g)	Mounting plate thickness 7 mm or smaller
	ø 3.2	KQB2E23-00	M10 x 1	12	32.2	11	12	3.4	14.8	H + /
The second second	ø 4	KQB2E04-00	M10 x 1	12	32.4	11	12.6	5.6	14.7	
	ø 6	KQB2E06-00	M14 x 1	17	35.4	15	13.6	13.1	29.2	<u> </u>
	ø 8	KQB2E08-00	M15 x 1	19	38.8	16	16.1	26.1	34.9	
	ø 10	KQB2E10-00	M18 x 1	21	40	19	17	41.5	47.1	
Constant of the second se	ø 12	KQB2E12-00	M20 x 1	24	42.4	21	18.6	58.3	58.7	M Y Y M J
	ø 16	KQB2E16-00	M27 x 1	30	46.8	28	20.8	113	107.2	
					N	loto) Valuo	of EEP tu	ho		

Note) Value of FEP tube. Value of nylon tube for ø16 only.

Union Tee: KQB2T



ч.	· / I										
,	21 —										
	Applicable tube O.D. (mm)	Model	Note 1) Ø D	L	Α	Q	М	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
	ø 3.2	KQB2T23-00	8.3	13.6	20.5	4.1	12	3.2	5.6	3.4	7.9
	ø 4	KQB2T04-00	9.1	14.6	21.8	4.4	12.6	3.2	5.6	6.4	9.5
	ø 6	KQB2T06-00	11.4	16.6	24.6	5.2	13.6	3.2	5.6	13.4	14.2
	ø 8	KQB2T08-00	13.7	20.1	31.1	7	16.1	4.2	8	25.6	24.4
	ø 10	KQB2T10-00	16.6	22	34	8	17	4.2	8	40	36.8
	ø 12	KQB2T12-00	18.7	24.6	37.7	9.1	18.6	4.2	8	57.4	47
	ø 16	KQB2T16-00	24.6	28.8	43.4	10.6	20.8	4.2	8	100	75.5



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

Value of nylon tube for ø16 only.

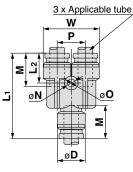
Union "Y": KQB2U

- 10	ľ
U	

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

Note 1) øD is maximum diameter.

Note 2) Value of FEP tube. Value of nylon tube for ø16 only.



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

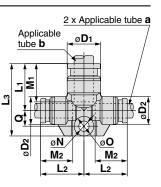
Dimensions

Different Diameter Tee: KQB2T -



tube	cable O.D. m)	Model		Note 1) Ø D 2		L2	Lз	Q	M 1	M 2	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
а	b												alea (IIIII-)	(3)
ø 3.2	ø 4	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
ø 4	ø 6	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
ø 6	ø 8	KQB2T06-08	13.7	11.4	19.1	17.7	29.5	6.4	16.1	13.6	4.2	8	16.4	20
ø 8	ø 10	KQB2T08-10	16.6	13.7	21	21.2	32.1	7.1	17	16.1	4.2	8	36	29.8
ø 10	ø 12	KQB2T10-12	18.7	16.6	23.6	23.1	35.7	8.1	18.6	17	4.2	8	56	41.3
ø 12	ø 16	KQB2T12-16	24.6	18.7	26.8	26.7	39.9	9.1	20.8	18.6	4.2	8	108.5	58
								No	ote 1)	øD1,	øD2 a	ire ma	aximum dia	ameters.

ters. Note 2) Value of FEP tube.

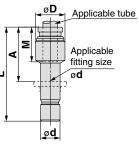


Plug-in Reducer: KQB2R

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l		1	

Applicable tube O.D. (mm)	Applicable fitting size Ø d	Model	Note 1) Ø D	L	Α	м	Note 2) Effective area (mm ²)	Weight (g)	T		9
ø 3.2	ø 4	KQB2R23-04	9	32.9	20.3	12	3.4	4.9	Ī	Σ	e
ø 4	ø 6	KQB2R04-06	9	34.4	20.8	12.6	5.6	7		∢⊂	
ø6	ø 8	KQB2R06-08	12	38.4	22.3	13.6	13.1	12.7			2
ø 8	ø 10	KQB2R08-10	14	41.9	24.9	16.1	26.1	19.2	-1	<u>ال</u>	-
ø10	ø 12	KQB2R10-12	17	44.8	26.2	17	41.5	27.8		-	
ø 12	ø 16	KQB2R12-16	19	42.9	22.1	18.6	58.3	37.2			
				Note	1) øD is r	naximum	diameter		ţ		

Note 2) Value of FEP tube.



Different Diameter Straight: KQB2H -

	P
(THE	~

	Appli tube O.I a	cable D. (mm) b	Model	øD Note 1)	L	M 1	M2	Note 2) Effective area (mm ²)	Weight (g)
	ø 3.2	ø 4	KQB2H23-04	9	25.6	12	12.6	3.4	6.8
	ø 4	ø 6	KQB2H04-06	12	27.2	12.6	13.6	5.6	12.1
	ø 6	ø 8	KQB2H06-08	14	30.7	13.6	16.1	13.1	17.1
-	ø 8	ø 10	KQB2H08-10	17	34.1	16.1	17	26.1	27.2
	ø 10	ø 12	KQB2H10-12	19	36.6	17	18.6	41.5	34.8
	ø 12 ø 16		KQB2H12-16	24.6	40.4	18.6	20.8	58.3	57.3

Applicable tube a ő М2 M1

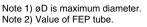
Applicable tube **b**

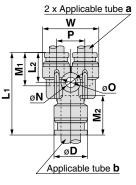
Note 1) øD is maximum diameter. Note 2) Value of FEP tube.

Different Diameter Union "Y": KQB2U -



tube	cable O.D. m)	Model	Note 1) Ø D	L1	L2	Р	w	M 1	M2	øN	øO	Note 2) Effective	Weight (g)
а	b											area (mm ²)	(9)
ø 3.2	ø 4	KQB2U23-04	9.1	27	10.8	8.1	16.4	12	12.6	3.2	5.6	3.2	8.5
ø 4	ø 6	KQB2U04-06	11.4	29.3	11.2	9.1	18.2	12.6	13.6	3.2	5.6	4.2	11.9
ø 6	ø 8	KQB2U06-08	13.7	33.7	12.2	11.5	22.9	13.6	16.1	4.2	8	13.4	19.3
ø 8	ø 10	KQB2U08-10	16.6	38.3	13.8	14.6	28.3	16.1	17	4.2	8	25.6	32
ø 10	ø 12	KQB2U10-12	18.7	43	14	17.6	34.2	17	18.6	4.2	8	40	47.6
ø 12	ø 16	KQB2U12-16	24.6	47.4	15.6	19.8	38.5	18.6	20.8	4.2	8	57.4	67.6





Bulkhead Connector: KQB2E -



												Maximal and a second
Applicable tube O.D.	Connection thread	Model	Т	Width ad	cross flat	L1	L2	Mounting	м	Note) Effective	Weight	Mounting plate thickness
(mm)	Rc	Woder	(M)	H1	H2	L 1	L2	hole	IVI	area (mm ²)	(g)	7 mm or smaller
ø 3.2	1/4	KQB2E23-02	M10 x 1	17	12	31	14.8	11	12	3.4	27.5	Applicable tube
~1	1/8	KQB2E04-01	MIOVI	14	12	25.8	9.7	11	10.0	F 0	16.9	H ₂
ø 4	1/4	KQB2E04-02	M10 x 1	17	12	30.9	14.8		12.6	5.6	27.1	
	1/8	KQB2E06-01		17		24.2	6.1				25	
ø 6	1/4	KQB2E06-02	M14 x 1	17	17	31.6	13.5	15	13.6	13.1	33.2	
	3/8	KQB2E06-03		19		33	14.9				34.8	
	1/8	KQB2E08-01		17		26.3	6.9				28.7	Connection
ø 8	1/4	KQB2E08-02	M15 x 1	17	19	32.4	13	16	16.1	26.1	34.2	
	3/8	KQB2E08-03		19		34	14.6				35.9	_ L1
ø 10	1/4	KQB2E10-02	M18 x 1	19	21	31.6	11.6	19	17	41.5	44	
010	3/8	KQB2E10-03	IVI IOX I	19	21	33.6	13.6	19	17	41.5	40.2	
ø 12	3/8	KQB2E12-03	M20 x 1	21	24	34	12.8	21	18.6	58.3	52	
012	1/2	KQB2E12-04		24	24	39.6	18.4	21	10.0	50.5	62.5	
a16	3/8	KQB2E16-03	M27 x 1	29	30	35.3	11.2	28	20.8	96	111	
ø 16	1/2	KQB2E16-04		29	30	40.6	16.5	20	20.0	113	118.2	



Value of nylon tube for ø16 only.

Extended Male Elbow: KQB2W -



IDOW:	NUD										
Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) Ø D	L1	L2	A *	м	Note 2) Effective area (mm ²)	Weight (g)	(M5) <u>Applicable tube</u>
	M5 x 0.8	KQB2W23-M5	8		13.1	31.2	32.4			13.5	
ø 3.2	1/8	KQB2W23-01S	10	8.3	10.0	31.3	32.3	12	2.8	15.3	<u>M</u>
	1/4	KQB2W23-02S	14		13.6	35.1	34.5]		34.7	
	M5 x 0.8	KQB2W04-M5	8		13.7	31.6	33.2		3	14.1	
ø 4	1/8	KQB2W04-01S	10	9.1	14.4	31.7	33.1	12.6	4	16.2	
	1/4	KQB2W04-02S	14		14.4	35.5	35.3		4	35.6	
	M5 x 0.8	KQB2W06-M5	8		14.7	32.7	35.4		3	16	
ø 6	1/8	KQB2W06-01S	10	11.4		32.8	35.4	13.6		17.8	
00	1/4	KQB2W06-02S	14	11.4	15.9	36.6	37.6		10.9	37.2	
	3/8	KQB2W06-03S	17			38	38.6			60.3	Connection thread
	1/8	KQB2W08-01S	12		18.6	37	40.7			28.9	
ø 8	1/4	KQB2W08-02S	14	13.7	19.1	40.2	42.3	16.1	20.5	39.2	(R)
	3/8	KQB2W08-03S	17		19.1	41.6	43.3			63.7	Applicable tube
	1/4	KQB2W10-02S	14			46.6	50.2			42.1	
ø 10	3/8	KQB2W10-03S	17	16.6	21	45.9	49.1	17	33.5	64.5	. <u> </u>
	1/2	KQB2W10-04S	22			50.1	52			123	
	1/4	KQB2W12-02S	14		22.6	47.7	52.3			46	
ø 12	3/8	KQB2W12-03S	17	18.7	23.6	49	53.2	18.6	47.7	58.2	
	1/2	KQB2W12-04S	22			53.2	56.1			118	
ø 16	3/8	KQB2W16-03S	19	24.6	26.3	57.6	64.1	20.8	71	89.6	
	1/2	KQB2W16-04S	22	24.0	27.3	61.4	66.6	20.0	100	116	
				* Ro	foronce	dimon	eione at	ftor inet	allation of	R throad	Connection

* 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.

(with sealant)

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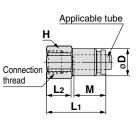
Applicable Tube: Metric Size, Connection Thread: M, R, Rc

Dimensions

Female Connector: KQB2F -



Applicable tube O.D. (mm)	Connection thread Rc	Model	H (Width across flat)	Note 1) Ø D	L1	L2	м	Note 2) Effective area (mm ²)	Weight (g)
ø 3.2	1/8	KQB2F23-01	12	8	23.3	9.8	12	3.4	9.3
~1	1/8	KQB2F04-01	12	07	23.7	9.8	10.6	FC	9.7
ø 4	1/4	KQB2F04-02	17	8.7	28.7	13.2	12.6	Effective area (mm ²)	22.7
	1/8	KQB2F06-01	12		24.2	10			11.1
ø 6	1/4	KQB2F06-02	17	11.1	29.2	13.4	13.6	13.1	24.3
	3/8	KQB2F06-03	19		30.6	14.2			25.8
	1/8	KQB2F08-01	14		26.3	9.6			17.1
ø 8	1/4	KQB2F08-02	17	13.4	31.3	13.7	16.1	26.1	26.8
	3/8	KQB2F08-03	19		32.7	14.4		Effective area (mm ²) 3.4 5.6 13.1 26.1 41.5 58.3 81	28.4
~10	1/4	KQB2F10-02	17	16.4	31.6	13.9	17		30.3
ø 10	3/8	KQB2F10-03	19	10.4	33	14.7		41.5	32
	1/4	KQB2F12-02	19		32.6	13.3			39.4
ø 12	3/8	KQB2F12-03	19	18.5	34	14.7	18.6	58.3	33.9
	1/2	KQB2F12-04	24		39.3	18.4			52.9
~16	3/8	KQB2F16-03	04	04.0	35.3	13.5	00.0	81	62.8
ø 16	1/2	KQB2F16-04	24	24.6	40.6	18.8	20.8	area (mm²) 3.4 3.6 13.1 26.1 41.5 58.3 81	59.9



Note 1) øD is maximum diameter. Note 2) Value of FEP tube. Value of nylon tube for ø16 only.

Plug: KQB2P -

1	Applicable fitting size ø d	Model	øD	L	Α	Weight (g)	L →
	ø 3.2	KQB2P-23	5	28.9	16.9	2.8	
J	ø 4	KQB2P-04	6	29.6	17	4.3	
	ø 6	KQB2P-06	8	30.8	17.2	9	
	ø 8	KQB2P-08	10	33.7	17.6	16.3	Applicable
	ø 10	KQB2P-10	12	34.6	17.6	25.4	fitting size
	ø 12	KQB2P-12	14	36.5	17.9	37.8	ød
	ø16	KQB2P-16	18	38.6	17.8	69.2	

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

Series KQB2





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

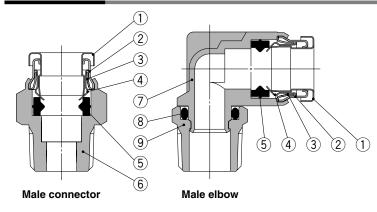
Cross Reference Table of the Inner Sleeve

Tube	Tube n	Applicable inner sleeve		
O.D.	TH/TIH (FEP)	TL/TIL (PFA)	Part no.	Length
	TH0402		TJ-0402	18
ø5/32"	TH0425	—	TJ-0425	18
	—	TL0403	TJ-0403	18
ø1/4"	TIHB07	TIL07	TJ-0604	19
01/4	TIHA07	_	TJ-0746	19
ø5/16"	TH0806	TL0806	TJ-0806	20.5
ø3/8"	TIHB11	TIL11	TJ-1065	23
03/8	TIHA11	—	TJ-1107	23
ø1/2"	TIH13	TIL13	TJ-1395	24
* C2700 +	Electroless nickel plated is use	ed for the TJ series.		

Spare Parts

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

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)			



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

Dimensions

Male Connector: KQB2H

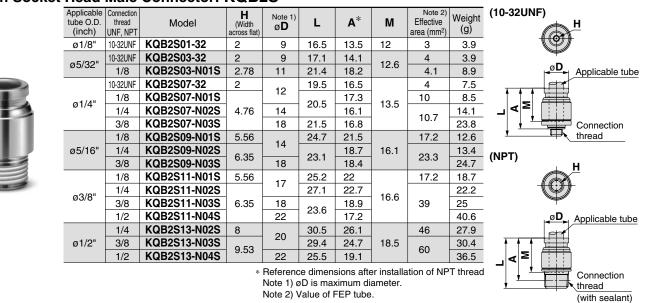


Applicable tube 0.D. (inch) Consection thread Model H (Width across flat) Note 1 gD L A* M Effective area (mm ²) Weight (g) (10-32UNF) 01/8" 1/8 KQB2H01-32 8 11.11 8 16.5 13.5 3 3.5 3.4 7.9 3.4 7.9 1.4 KQB2H01-N02S 14.29 20.9 16.5 3 3.5 7.4 18 7.9 1.4 KQB2H03-32 11.11 8.7 17.1 13.8 12.6 5.6 7.4 7.4 6.5.6 7.4 7.4 6.5.6 7.4 7.4 7.9 1.4 KQB2H07-N02S 14.29 11.2 20.9 16.5 13.5 13.1 15.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 <th>I COD</th> <th></th>	I COD										
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	tube O.D.	thread	Model	(Width		L	A *	м	Effective		· · · · ·
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		10-32UNF	KQB2H01-32	8		16.5	13.5		3	3.5	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ø1/8"	1/8	KQB2H01-N01S	11.11	8	17.1	13.9	12	0.4	7.9	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1/4	KQB2H01-N02S	14.29		20.9	16.5]	3.4	18	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		10-32UNF	KQB2H03-32	44.44		17.1	14.1		4	6.5	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ø5/32"	1/8	KQB2H03-N01S	11.11	8.7	17	13.8	12.6	FC	7.4	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		1/4	KQB2H03-N02S	14.29		20.9	16.5]	5.0	17.5	thread
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		10-32UNF	KQB2H07-32	10.7		19	16		4	9	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	~1/4"	1/8	KQB2H07-N01S	12.7	110	20	16.8	13.5	13.1	9.8	(NPT)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	01/4	1/4	KQB2H07-N02S	14.29	11.2	20.6	16.2			15.1	D Applicable tube
∅5/16" 1/4 KQB2H09-N02S 14.29 13.4 23.1 18.7 16.1 26.1 14.9 28.3 3/8 KQB2H09-N03S 17.46 24.6 19.9 28.3 28.3 21.5 28.3 1/8 KQB2H11-N01S 17.46 16 26.3 21.9 26.1 21.5 22.3 3/8 KQB2H11-N02S 17.46 16 26.3 21.9 26.1 21.5 24.4 55 3/8 KQB2H11-N04S 22.23 28.3 21.9 16.6 41.5 24.4 55 1/2 KQB2H13-N02S 30.5 26.1 39.4 39.4 36.8 Ø1/2" 3/8 KQB2H13-N03S 22.23 19.3 28.4 23.7 18.5 58.3 36.8		3/8	KQB2H07-N03S	17.46		23.8	19.1			31	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		1/8	KQB2H09-N01S	14.00	13.4	24.2	21		26.1	13.8	
3/8 KQB2H09-N03S 17.46 24.6 19.9 28.3 1/8 KQB2H11-N01S 25 21.8 26.1 21.5 3/8 KQB2H11-N02S 17.46 26.3 21.9 22.3 3/8 KQB2H11-N03S 17.46 26.3 21.9 22.3 3/8 KQB2H11-N03S 16 26.3 21.9 22.3 1/2 KQB2H11-N04S 22.23 28.3 21.9 16.6 41.5 24.4 1/2 KQB2H13-N02S 22.23 30.5 26.1 39.4 39.4 1/2" 3/8 KQB2H13-N03S 22.23 19.3 28.4 23.7 18.5 58.3 36.8	ø5/16"	1/4	KQB2H09-N02S	14.29		23.1	18.7	16.1		14.9	
$ \mathfrak{g}_{3/8''} = \begin{bmatrix} 1/8 & KQB2H1-N01S \\ 1/4 & KQB2H1-N02S \\ 3/8 & KQB2H1-N03S \\ 1/2 & KQB2H1-N04S \\ 3/8 & KQB2H1-N04S \\ 2.23 & 21.9 \\ 28.3 & 21.9 \\ 28.3 & 21.9 \\ 28.3 & 21.9 \\ 28.3 & 21.9 \\ 28.3 & 21.9 \\ 30.5 & 26.1 \\ 30.5 & 26.1 \\ 39.4 \\ 39.4 \\ 36.8 \\ 30.4 \\ 39.4 \\ 39.4 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\ 36.8 \\$		3/8	KQB2H09-N03S	17.46		24.6	19.9			28.3	
$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		1/8	KQB2H11-N01S			25	21.8		26.1	21.5	
3/8 KQB2H11-N03S 10 23.6 18.9 10.5 41.5 24.4 1/2 KQB2H11-N04S 22.23 28.3 21.9 55 1/4 KQB2H13-N02S 30.5 26.1 39.4 3/8 KQB2H13-N03S 22.23 19.3 28.4 23.7 18.5 58.3 36.8	~0/0"	1/4	KQB2H11-N02S	17.46	10	26.3	21.9	100		22.3	
1/4 KQB2H13-N02S 30.5 26.1 39.4 01/2" 3/8 KQB2H13-N03S 22.23 19.3 28.4 23.7 18.5 58.3 36.8	03/8	3/8	KQB2H11-N03S		10	23.6	18.9	10.0	41.5	24.4	(with Scalarity
ø1/2" 3/8 KQB2H13-N03S 22.23 19.3 28.4 23.7 18.5 58.3 36.8		1/2	KQB2H11-N04S	22.23		28.3	21.9]		55	
		1/4	KQB2H13-N02S			30.5	26.1			39.4	
1/2 KQB2H13-N04S 28.4 22 46.1	ø1/2"	3/8	KQB2H13-N03S	22.23	19.3	00.4	23.7	18.5	58.3	36.8	
		1/2	KQB2H13-N04S			28.4	22			46.1	

* Reference dimensions after installation of NPT thread Note 1) øD is maximum diameter.

Note 2) Value of FEP tube.

Hexagon Socket Head Male Connector: KQB2S



Straight Union: KQB2H

	O.D. (inch)
	ø1/8"
THE PARTY	ø5/32"
	ø1/4"
	ø5/16"
	ø3/8"
	a1/0"

	Applicable tube O.D. (inch)	Model	ø D Note 1)	L	М	Note 2) Effective area (mm ²)	Weight (g)
	ø1/8"	KQB2H01-00	9	25	12	3.4	6.8
T	ø5/32"	KQB2H03-00	9	26.2	12.6	5.6	6.8
	ø1/4"	KQB2H07-00	12	28	13.5	13.1	11.5
·	ø5/16"	KQB2H09-00	14	33.2	16.1	26.1	17.4
	ø3/8"	KQB2H11-00	16	34.2	16.6	41.5	23.7
	ø1/2"	KQB2H13-00	20	38	18.5	58.3	37

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

2 x Applicable tube



Male Elbow: KQB2L -



Applicable tube O.D. (inch)	Connection thread UNF, NPT	Model	H (Width across flat)	Note 1) Ø D	L1	L2	A *	М	Note 2) Effective area (mm ²)	Weight (g)	(10-32UNF) Applicable tube
	10-32UNF	KQB2L01-32	8		13.1	14.8	16		2.6	6.5	
ø1/8"	1/8	KQB2L01-N01S	11.11	8.3	13.6	14.9	15.8	12	3	8.8	<u>⊢ M</u> →
	1/4	KQB2L01-N02S	14.29		13.0	18.7	18.4		3	17.7	
	10-32UNF	KQB2L03-32	8		13.7	15.2	16.8		3.5	7	
ø5/32"	1/8	KQB2L03-N01S	11.11	9.1	14.4	15.3	16.6	12.6	4.2	9.7	
	1/4	KQB2L03-N02S	14.29		14.4	19.1	19.2		4.2	18.5	
	10-32UNF	KQB2L07-32	8		14.7	16.5	19.3		3.5	9.1	
ø1/4"	1/8	KQB2L07-N01S	11.11	11.7		16.6	19.2	13.5		11.4	thread
01/4	1/4	KQB2L07-N02S	14.29	11.7	15.9	20.4	21.8	10.0	11.4	20.3	(NPT)
	3/8	KQB2L07-N03S	17.46			22.2	23.3			33.7	Applicable tube
	1/8	KQB2L09-N01S	12.7		18.6	18.3	21.9			15.8	
ø5/16"	1/4	KQB2L09-N02S	14.29	13.7	19.1	21.5	23.9	16.1	21.6	21.9	
	3/8	KQB2L09-N03S	17.46		13.1	23.3	25.4			35	M►
	1/8	KQB2L11-N01S	12.7		20	19.4	24.2		21.6	20.5	
ø3/8"	1/4	KQB2L11-N02S	14.29	16		22.6	26.2	16.6		23.9	
00/0	3/8	KQB2L11-N03S	17.46		21	24.4	27.7	10.0	35.2	35.8	
	1/2	KQB2L11-N04S	22.23			28.2	29.8			63.1	
	1/4	KQB2L13-N02S	14.29		22.7	24.4	29.8			30.1	thread
ø1/2"	3/8	KQB2L13-N03S	17.46	19.6	23.7	26.1	31.2	18.5	50.2	37.9	(with sealant)
	1/2	KQB2L13-N04S	22.23		20.7	29.9	33.3			63.8	
			;	* Refere	ence dir	mensior	ns after	installa	tion of NP	T thread	

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

Male Branch Tee: KQB2T -

	. Ital	~~ '										
	Applicable tube O.D. (inch)	Connection thread UNF, NPT	Model	H (Width across flat)	Note 1) Ø D	L1	L2	\mathbf{A}^*	М	Note 2) Effective area (mm ²)	Weight (g)	(10-32UNF)
		10-32UNF	KQB2T01-32	8		13.1	14.8	16		3.2	8.2	
	ø1/8"	1/8	KQB2T01-N01S	11.11	8.3	10.0	14.9	15.8	12	0.4	10.6	
		1/4	KQB2T01-N02S	14.29		13.6	18.7	18.4		3.4	19.5	╋╦╪╤┫╢╴╴╟ ╶ ╿╿╧┨╴╴║┠╤ ╁┑╶╴ ╋
		10-32UNF	KQB2T03-32	8		13.7	15.2	16.8		4.5	9.1	
	ø5/32"	1/8	KQB2T03-N01S	11.11	9.1	14.4	15.3	16.6	12.6	6	11.6	
		1/4	KQB2T03-N02S	14.29		14.4	19.1	19.2		o	20.5	
17 1- 1		10-32UNF	KQB2T07-32	8		14.7	16.5	19.3		4.5	12.3	Connection
	ø1/4"	1/8	KQB2T07-N01S	11.11	11.7		16.6	19.2	13.5		14.9	
	Ø1/4	1/4	KQB2T07-N02S	14.29	11.7	15.9	20.4	21.8	13.5	13.9	23.8	(NPT)
		3/8	KQB2T07-N03S	17.46			22.2	23.3			37.1	2 x Applicable tube
		1/8	KQB2T09-N01S	12.7		18.6	18.3	21.9			21.2	$L_1 L_1 L_1$
	ø5/16"	1/4	KQB2T09-N02S	14.29	13.7	19.1	21.5	23.9	16.1	26.3	27.1	
		3/8	KQB2T09-N03S	17.46		19.1	23.3	25.4			40.3	╋╓╪┰┲╢╌╶┾╾ ┑ ╢┢╪╕┟╌╶┠┲┰╡╋ ╶ ┑╋
		1/8	KQB2T11-N01S	12.7		20	19.4	24.2			28.1	
	ø3/8"	1/4	KQB2T11-N02S	14.29	16		22.6	26.2	16.6	40.8	31.1	
	03/0	3/8	KQB2T11-N03S	17.46	10	21	24.4	27.7	10.0	40.0	43.1	Connection
		1/2	KQB2T11-N04S	22.23			28.2	29.8			70.4	thread
		1/4	KQB2T13-N02S	14.29		22.7	24.4	29.8			41.8	(with sealant)
	ø1/2"	3/8	KQB2T13-N03S	17.46	19.6	23.7	26.1	31.2	18.5	57.2	49	х , , , , , , , , , , , , , , , , , , ,
		1/2	KQB2T13-N04S	22.23		20.7	29.9	33.3			74.9	

* Reference dimensions after installation of NPT thread Note 1) øD is maximum diameter. Note 2) Value of FEP tube.

Union Elbow: KQB2L-



Applicable tube O.D. (inch)	Model	Note 1) Ø D	L	Α	Q	М	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
ø1/8"	KQB2L01-00	8.3	13.6	19.3	2.9	12	3.2	5.6	3	6.3
ø5/32"	KQB2L03-00	9.1	14.6	20.5	3.1	12.6	3.2	5.6	4.2	7.4
ø1/4"	KQB2L07-00	11.7	16.7	23.2	3.7	13.5	3.2	5.6	11.4	11.5
ø5/16"	KQB2L09-00	13.7	20.1	29.1	5	16.1	4.2	8	21.6	20.2
ø3/8"	KQB2L11-00	16	21.4	31.1	5.7	16.6	4.2	8	35.2	28.2
ø1/2"	KQB2L13-00	19.6	24.9	35.3	6.4	18.5	4.2	8	50.2	41.7

øO L Α

øD

2 x Applicable tube

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

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

Dimensions

Bulkhead Union: KQB2E -



Applicable tube O.D. (inch)	Model	T (UNF)	H (Width across flat)	L	Mounting hole	М	Note 2) Effective area (mm ²)	Weight (g)
ø1/8"	KQB2E01-00	7/16-20UNF	14.29	34.2	12.5	12	3.4	21.8
ø5/32"	KQB2E03-00	7/16-20UNF	14.29	34.4	12.5	12.6	5.6	21.6
ø1/4"	KQB2E07-00	1/2-20UNF	17.46	36.2	14	13.5	13.1	30.2
ø5/16"	KQB2E09-00	5/8-18UNF	22.23	41.2	17	16.1	26.1	43.9
ø3/8"	KQB2E11-00	3/4-16UNF	22.23	42.4	20.5	16.6	41.5	64.2
ø1/2"	KQB2E13-00	7/8-14UNF	25.4	47	23.5	18.5	58.3	94.2
				No	te) Value o	f FEP tube	<u> </u>	

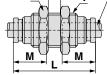
 3.1
 30.2

 6.1
 43.9

 1.5
 64.2

Note) Value of FEP tube.

Mounting plate thickness 7 mm or smaller



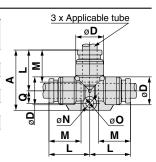
Union Tee: KQB2T -

A tu



Applicable tube O.D. (inch)	Model	Note 1) Ø D	L	A	Q	м	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
ø1/8"	KQB2T01-00	8.3	13.6	20.5	4.1	12	3.2	5.6	3.4	7.9
ø5/32"	KQB2T03-00	9.1	14.6	21.8	4.4	12.6	3.2	5.6	6.4	9.5
ø1/4"	KQB2T07-00	11.7	16.7	24.7	5.2	13.5	3.2	5.6	13.4	14.7
ø5/16"	KQB2T09-00	13.7	20.1	31.1	7	16.1	4.2	8	25.6	24.4
ø3/8"	KQB2T11-00	16	21.4	33.4	8	16.6	4.2	8	40	34.7
ø1/2"	KQB2T13-00	19.6	24.9	37.9	9	18.5	4.2	8	57.4	52.3
							D ·			

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



Union "Y": KQB2U -



Applicable tube O.D. (inch)	Model	Note 1) Ø D	w	L1	L2	Ρ	М	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
ø1/8"	KQB2U01-00	8.3	16.4	29	11	8.1	12	3.2	5.6	3.4	9.2
ø5/32"	KQB2U03-00	9.1	18.2	30.4	11.3	9.1	12.6	3.2	5.6	4.2	11.1
ø1/4"	KQB2U07-00	11.7	23.9	34.5	12.1	12.2	13.5	3.2	5.6	13.4	19.6
ø5/16"	KQB2U09-00	13.7	28.3	40.1	14.1	14.6	16.1	4.2	8	25.6	29.7
ø3/8"	KQB2U11-00	16	33.2	42.2	14	17.2	16.6	4.2	8	40	43.1
ø1/2"	KQB2U13-00	19.6	40.2	47.3	15.8	20.6	18.5	4.2	8	57.4	66.4

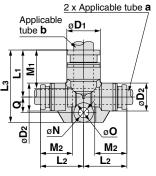
Note 1) øD is maximum diameter. Note 2) Value of FEP tube. 3 x Applicable tube

Different Diameter Tee: KQB2T



tube	cable O.D. ch)	Model		Note 1) Ø D 2		L2	L3	Q	M 1	M2	øN	øO	Note 2) Effective	Weight (g)
а	b												area (mm ²)	(9)
ø1/8"	ø5/32"	KQB2T01-03	9.1	8.3	14.2	14.1	21.1	4.1	12.6	12	3.2	5.6	3.8	8.5
ø5/32"	ø1/4"	KQB2T03-07	11.7	9.1	15.5	15.9	22.7	4.4	13.5	12.6	3.2	5.6	7.1	11.7
ø1/4"	ø5/16"	KQB2T07-09	13.7	11.7	19.3	17.6	29.6	6.3	16.1	13.5	4.2	8	16.4	20.2
ø5/16"	ø3/8"	KQB2T09-11	16	13.7	20.6	21	31.7	7.1	16.6	16.1	4.2	8	36	28.9
ø3/8"	ø1/2"	KQB2T11-13	19.6	16	23.3	23	35.4	8.1	18.5	16.6	4.2	8	56	41.8
								NI		~D.		no m	avimum di	omotoro

Note 1) \emptyset D1, \emptyset D2 are maximum diameters. Note 2) Value of FEP tube.



Plug-in Reducer: KQB2R

Шſ.	

									~D
Applicable tube O.D. (inch)	Applicable fitting size ø d	Model	Note 1) Ø D	L	Α	М	Note 2) Effective area (mm ²)	Weight	Applicable tube
ø1/8"	ø5/32"	KQB2R01-03	9	32.9	20.3	12	3.4	4.9	
ø5/32"	ø1/4"	KQB2R03-07	9	33.7	20.2	12.6	5.6	7.4	
ø1/4"	ø5/16"	KQB2R07-09	12	38.4	22.3	13.5	13.1	12.5	fitting size
ø5/16"	ø3/8"	KQB2R09-11	14	41.6	25	16.1	26.1	17.7	Død
ø3/8"	ø1/2"	KQB2R11-13	17	39.8	21.3	16.6	41.5	24.7	
					1) øD is i 2) Value		diameter. Ibe.		øđ

Different Diameter Straight: KQB2H



Applicable tube O.D. (inch)		Model	øD Note 1)	L	M 1	M2	Note 2) Effective	Weight (g)
а	b						area (mm²)	(9)
ø1/8"	ø5/32"	KQB2H01-03	9	25.6	12	12.6	3.4	6.8
ø5/32"	ø1/4"	KQB2H03-07	12	27.1	12.6	13.5	5.6	11.9
ø1/4"	ø5/16"	KQB2H07-09	14	30.6	13.5	16.1	13.1	16.8
ø5/16"	ø3/8"	KQB2H09-11	16	33.7	16.1	16.6	26.1	23.9
ø3/8"	ø1/2"	KQB2H11-13	20	36.1	16.6	18.5	41.5	38.8
			N.L.			-11		

Applicable tube a M1 M2

Applicable tube b

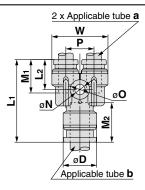
Note 1) øD is maximum diameter. Note 2) Value of FEP tube.

Different Diameter Union "Y": KQB2U -



Appli tube (in		Model	Note 1) Ø D	L1	L2	Р	w	M 1	M2	øN	øO	Note 2) Effective	Weight (g)
а	b											area (mm²)	(9)
ø1/8"	ø5/32"	KQB2U01-03	9.1	27	10.8	8.1	16.4	12	12.6	3.2	5.6	3.2	8.5
ø5/32"	ø1/4"	KQB2U03-07	11.7	28.8	11.4	9.1	18.2	12.6	13.5	3.2	5.6	4.2	11.8
ø1/4"	ø5/16"	KQB2U07-09	13.7	33.8	12	12.2	23.9	13.5	16.1	4.2	8	13.4	20
ø5/16"	ø3/8"	KQB2U09-11	16	38.3	13.8	14.6	28.3	16.1	16.6	4.2	8	25.6	31
ø3/8"	ø1/2"	KQB2U11-13	19.6	40.5	13.7	17.2	33.2	16.6	18.5	4.2	8	40	45
						NISAS	1) - D				- 4		

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



Mounting plate thickness 7 mm or smaller Applicable tube H₂ Т

Bulkhead Connector: KQB2E

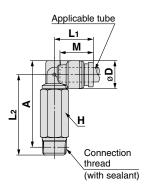
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Applicable tube O.D.	Connection thread	Model	Т	Width a	cross flat	L1	L2	Mounting	м	Note) Effective	Weight	
(inch)	NPT	woder	(UNF)	H 1	H2	L 1	L2	hole	IVI	area (mm ²)	(g)	
ø1/8"	1/4	KQB2E01-N02	7/16-20UNF	17.46	14.29	32.8	15.3	12.5	12	3.4	34.1	
ø5/32"	1/4	KQB2E03-N02	7/16-20UNF	17.46	14.29	32.6	15.3	12.5	12.6	5.6	33.5	<u>H1</u>
ø1/4"	1/4	KQB2E07-N02	1/2-20UNF	17.46	17.46	33.1	14.8	14	13.5	13.1	36.5	
ø5/16"	3/8	KQB2E09-N03	5/8-18UNF	22.23	22.23	35.8	15.1	17	16.1	26.1	56.1	
ø3/8"	3/8	KQB2E11-N03	3/4-16UNF	22.23	22.23	35.2	13.7	20.5	16.6	41.5	62.9	
ø1/2"	3/8	KQB2E13-N03	7/8-14UNF	23.81	25.4	34.6	11	23.5	18.5	58.3	76.6	Connection
01/2	1/2	KQB2E13-N04	//0+14UINF	23.01	20.4	42.2	18.6	23.5	10.5	50.5	80.2	thread
Note) Value of FEP tube.												

Extended Male Elbow: KQB2W



Applicable tube O.D. (inch)	Connection thread NPT	Model	H (Width across flat)	Note 1) Ø D	L1	L2	A *	М	Note 2) Effective area (mm ²)	Weight (g)
ø1/8"	1/8	KQB2W01-N01S	11.11	8.3	13.6	31.6	32.5	12	2.8	19.5
01/0	1/4	KQB2W01-N02S	14.29	0.3	13.0	35.4	35.1	12	2.0	37.3
ø5/32"	1/8	KQB2W03-N01S	11.11	9.1	14.4	32	33.3	12.6	4	20.3
05/32	1/4	KQB2W03-N02S	14.29	9.1		35.8	35.9		4	38.2
	1/8	KQB2W07-N01S	11.11		15.9	33.3	35.9		10.9	22.1
ø1/4"	1/4	KQB2W07-N02S	14.29	11.7		37.1	38.5	13.5		39.9
	3/8	KQB2W07-N03S	17.46			38.9	40			65.6
	1/8	KQB2W09-N01S	12.7	13.7	18.6	34.7	38.3	16.1	20.5	30.4
ø5/16"	1/4	KQB2W09-N02S	14.29		19.1	40.2	42.6			41.6
	3/8	KQB2W09-N03S	17.46			42	44.1			68.5
	1/4	KQB2W11-N02S	14.29			47.2	50.8			44.9
ø3/8"	3/8	KQB2W11-N03S	17.46	16	21	45.4	48.7	16.6	33.5	67.8
	1/2	KQB2W11-N04S	22.23			49.2	50.8			124.2
	1/4	KQB2W13-N02S	14.29		22.7	49	54.4			51.1
ø1/2"	3/8	KQB2W13-N03S	17.46	19.6	00.7	50.7	55.8	18.5	47.7	66
	1/2	KQB2W13-N04S	22.23		23.7	54.5	57.9			125.9



* Reference dimensions after installation of NPT thread

Note 1) øD is maximum diameter.

Note 2) Value of FEP tube.

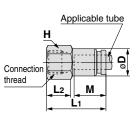
Applicable Tube: Inch Size, Connection Thread: UNF, NPT

Dimensions

Female Connector: KQB2F -



Applicable tube O.D. (inch)	Connection thread NPT	Model	(Width across flat)	Note 1) Ø D	L1	L2	М	Note 2) Effective area (mm ²)	Weight (g)
ø1/8"	1/8	KQB2F01-N01	12.7	8	24.1	10.4	12	3.4	11.3
01/0	1/4	KQB2F01-N02	17.46	0	29.1	13.7	12	3.4	25.4
ø5/32"	1/8	KQB2F03-N01	12.7	07	24.6	10.5	10.6	FG	11.8
05/32	1/4	KQB2F03-N02	17.46	8.7	29.6	13.8	12.6	5.6	25.9
	1/8	KQB2F07-N01	12.7		25	10.7	13.5	13.1	13
ø1/4"	1/4	KQB2F07-N02	17.46	11.2	30	14.1			27.5
	3/8	KQB2F07-N03	22.23		31.2	14.6			41.1
	1/8	KQB2F09-N01	14.29 17.46	13.4	27.2	10.3	16.1	26.1	18.8
ø5/16"	1/4	KQB2F09-N02			32.2	14.3			30.1
	3/8	KQB2F09-N03	22.23		33.4	14.8			44
	1/4	KQB2F11-N02	17.46		32.1	14.4			32.9
ø3/8"	3/8	KQB2F11-N03	22.23	16	33.3	14.9	16.6	41.5	47
	1/2	KQB2F11-N04	23.81		38.6	18.6			50.4
ø1/2"	3/8	KQB2F13-N03	22.23	19.3	34.6	14.7	18.5	58.3	51.3
	1/2	KQB2F13-N04	23.81	19.5	39.9	18.8			55.1

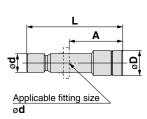


Note 1) øD is maximum diameter. Note 2) Value of FEP tube.

Plug: KQB2P -

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Applicable fitting size ø d	Model	øD	L	А	Weight (g)
ø1/8"	KQB2P-01	5	28.9	16.9	2.8
ø5/32"	KQB2P-03	6	29.6	17	4.3
ø1/4"	KQB2P-07	8	30.3	16.8	9.4
ø5/16"	KQB2P-09	10	33.7	17.6	16.3
ø3/8"	KQB2P-11	11	34.1	17.5	22.2
ø1/2"	KQB2P-13	14	36.4	17.9	40.7



Applicable Tube: Metric Size, Connection Thread: G

Series KQB2





Applicable Tube

Tube material	FEP, PFA, Nylon, Soft nylon Note 1), Polyurethane, Polyolefin
Tube O.D.	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: • When using in an environment where the fluid temperature changes drastically.
 - When using at a high temperature.

* Temperature Condition of Mounting the Inner Sleeve

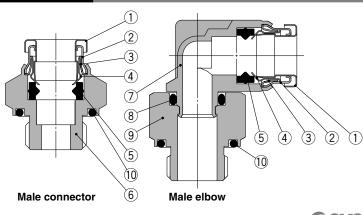
Tube	Temperature
FEP tube/TH series	80°C or more
PFA tube/TL series	120°C or more

Cross Reference Table of the Inner Sleeve

Tuba		Tube material	Applicable i	nner sleeve	
Tube O.D.	TUS (Soft polyurethane)	TH/TIH (FEP)	TL/TIL (PFA)	Part no.	Length
	—	TH0402		TJ-0402	18
ø4	TUS0425	TH0425	-	TJ-0425	18
	_	—	TL0403	TJ-0403	18
ø6	TUS0604	TH0604	TL0604	TJ-0604	19
~0	TUS0805	_	_	TJ-0805	20.5
ø8	—	TH0806	TL0806	TJ-0806	20.5
	TUS1065	_	_	TJ-1065	23
ø10	—	TH1075	_	TJ-1075	23
	_	TH1008	TL1008	TJ-1008	23
	TUS1208	_	_	TJ-1208	24
ø12	_	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)		
10	G thread O-ring	read O-ring Special FKM (Fluoro coated)		

Spare Parts

Description	Tube O.D.	Part no.	Material
	ø4	KQB223-P01	
	ø6	KQB206-P01	
Bulkhead	ø8	KQB208-P01	C3604 (Electroless
nut	ø10	KQB210-P01	nickel plated)
	ø12	KQB212-P01	
	ø16	KQB216-P01	

	Description	Thread size	Part no.	Material
		G1/8 KQB2-G0		
	G thread O-ring	G1/4	KQB2-G02	Special FKM
		G3/8	KQB2-G03	(Fluoro coated)
		G1/2	KQB2-G04	,

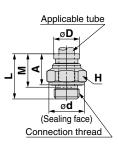
Applicable Tube: Metric Size, Connection Thread: G

Dimensions

Male Connector: KQB2H



	2n —									
Applicable tube O.D. (mm)	Connection thread G	Model	H (Width across flat)	Note 1) Ø D	ø d	L	Α	М	Note 2) Effective area (mm ²)	Weight (g)
ø 4	1/8	KQB2H04-G01	14	8.7	13.8	16.6	11.1	12.6	5.6	9.2
04	1/4	KQB2H04-G02	19	0.7	17.8	20.6	14.1	12.0	5.0	23.6
	1/8	KQB2H06-G01	14		13.8	17.6	12.1			8.9
ø 6	1/4	KQB2H06-G02	19	11.1	17.8	20.5	14	13.6	13.1	21.6
	3/8	KQB2H06-G03	22		21.8	23.4	15.9			38.3
	1/8	KQB2H08-G01	14		13.8	23.9	18.4			13.2
ø 8	1/4	KQB2H08-G02	19 13.4 22	17.8	21.2	14.7	16.1	26.1	19.1	
	3/8	KQB2H08-G03		21.8	24	16.5			35.2	
	1/8	KQB2H10-G01	17	13.8	25.1	19.6		26.1	19.9	
ø 10	1/4	KQB2H10-G02	19	16.4	17.8	24.9	18.4	17	41.5	24.8
010	3/8	KQB2H10-G03	22	10.4	21.8	23.3	15.8	17		30.9
	1/2	KQB2H10-G04	27		26.5	27.7	18.7			64.4
	1/4	KQB2H12-G02	19		17.8	27.7	21.2			26.3
ø 12	3/8	KQB2H12-G03	22	18.5	21.8	23.5	16	18.6	58.3	25.5
	1/2	KQB2H12-G04	27		26.5	27.9	18.9			58
ø 16	3/8	KQB2H16-G03	24	24.6	21.8	31.3	23.8	20.8	81	44.5
010	1/2	KQB2H16-G04	27	24.0	26.5	27.3	18.3	20.0	113	43
Note 1) aD is maximum diameter										



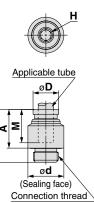
Note 1) øD is maximum diameter. Note 2) Value of FEP tube.

Value of nylon tube for ø16 only.

Hexagon Socket Head Male Connector: KQB2S -



lieau	lead male connector. NGD25												
Applicable tube O.D. (mm)	Connection thread G	Model	H (Width across flat)	Note 1) Ø D	ø d	L	Α	М	Note 2) Effective area (mm ²)	Weight (g)			
ø 4	1/8	KQB2S04-G01	3	14	14	20.4	14.9	12.6	4.1	13.5			
ø 6	1/8	KQB2S06-G01	4	14	14	20.6	15.1	10.6	10	12.1			
00	1/4	KQB2S06-G02	4	18	18	20.6	14.1	13.6	10.7	19.9			
	1/8	KQB2S08-G01	5	14	14	23.9	18.4		17.2	12.5			
ø 8	1/4	KQB2S08-G02	6	18	18	22.9	16.4	16.1	16.1	16.1	16.1	23.3	20.1
	3/8	KQB2S08-G03	0	22	22	23.1	15.6		23.3	31.1			
	1/8	KQB2S10-G01	5	17	14	25.1	19.6		17.2	18.5			
ø 10	1/4	KQB2S10-G02		18	18	24.9	18.4	17		20.4			
010	3/8	KQB2S10-G03	8	22	22	24	16.5	17	39	31.2			
	1/2	KQB2S10-G04		27	26.5	24	15			45.3			
	1/4	KQB2S12-G02	8	19	18	27.7	21.2		46	23.6			
ø 12	3/8	KQB2S12-G03	10	22	22	24.9	17.4	18.6	60	27.4			
	1/2	KQB2S12-G04	10	27	26.5	24.9	15.9		60	42.6			
ø 16	3/8	KQB2S16-G03	10	24.6	22	31.3	23.8	20.0	81	41			
010	1/2	KQB2S16-G04	12	27	26.5	27.8	18.8	20.8	113	42.9			



Note 1) øD is maximum diameter. Note 2) Value of FEP tube. Value of nylon tube for ø16 only.

Male Elbow: KQB2L

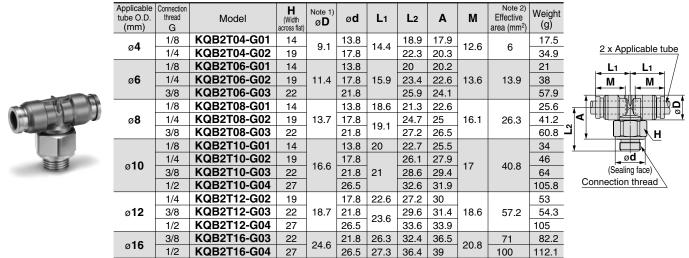


Applicable tube O.D. (mm)	Connection thread G	Model	H (Width across flat)	Note 1) Ø D	ø d	L1	L2	Α	м	Note 2) Effective area (mm ²)	Weight (g)	
ø 4	1/8	KQB2L04-G01	14	9.1	13.8	14.4	18.9	17.9	12.6	4.2	15.6	Applicable tube
04	1/4	KQB2L04-G02	19	9.1	17.8	14.4	22.3	20.3	12.0	4.2	33	
	1/8	KQB2L06-G01	14		13.8		20	20.2			17.2	
ø 6	1/4	KQB2L06-G02	19	11.4	17.8	15.9 2	23.4	22.6	13.6	6 11.4	34.6	
	3/8	KQB2L06-G03	22		21.8		25.9	24.1			54.5	
	1/8	KQB2L08-G01	14		13.8	18.6	21.3	22.6			20.2	
ø 8	1/4	KQB2L08-G02	19	13.7	17.8	19.1	24.7	25	16.1	21.6	36	н / Ц Ц Г
	3/8	KQB2L08-G03	22		21.8	19.1	27.2	26.5			55.6	
	1/8	KQB2L10-G01	14		13.8	20	22.7	25.5		21.6	25.7	ø d Connection
ø 10	1/4	KQB2L10-G02	19	16.6	17.8		26.1	27.9	17	7 35.2	38.2	(Sealing face)
010	3/8	KQB2L10-G03	22	10.0	21.8	21	28.6	29.4	17		56.2	(County face)
	1/2	KQB2L10-G04	27		26.5		32.6	31.9			97.9	
	1/4	KQB2L12-G02	19		17.8	22.6	27.2	30			41.9	
ø 12	3/8	KQB2L12-G03	22	18.7	21.8	23.6	29.6	31.4	18.6	50.2	54.3	
	1/2	KQB2L12-G04	27		26.5	23.0	33.6	33.9			94.6	
ø 16	3/8	KQB2L16-G03	22	246	21.8	26.3	32.4	36.5	20.0	71	64.7	
010	1/2	KQB2L16-G04	27	24.6	26.5	27.3	36.4	39	20.8	100	95.7	
							Note 1)	øD is r	naximu	m diamete	r	

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

Value of nylon tube for ø16 only.

Male Branch Tee: KQB2T



Note 1) øD is maximum diameter.

Note 2) Value of FEP tube.

Value of nylon tube for ø16 only.

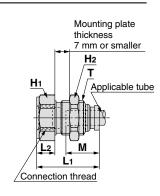
Applicable Tube: Metric Size, Connection Thread: G

Dimensions

Bulkhead Connector: KQB2E



Annlicable	pplicable Connection		_	Width across flat						Note)	
tube O.D. (mm)	thread G	Model	T (M)	H1	H2	L1	L2	Mounting hole	М	Effective area (mm ²)	Weight (g)
ø 4	1/8	KQB2E04-G01	M10 x 1	17	12	27.1	11	11	12.6	5.6	25.1
04	1/4	KQB2E04-G02	IVI I U X I	19	12	32.7	16.6	11	12.0		36.9
	1/8	KQB2E06-G01		17		25.5	7.4				26.8
ø 6	1/4	KQB2E06-G02	M14 x 1	19	17	33.5	15.4	15	13.6	13.1	42.7
	3/8	KQB2E06-G03		24		35	16.9				62
	1/8	KQB2E08-G01		17		27.6	8.2				30.4
ø 8	1/4	KQB2E08-G02	M15 x 1	19	19	34.5	15.1	16	16.1	26.1	43.9
	3/8	KQB2E08-G03		24		36	16.6				66.2
ø 10	1/4	KQB2E10-G02	M18 x 1	19	21	33.5	13.5	19	17	44.5	46.8
010	3/8	KQB2E10-G03	IVI IO X I	24	21	35.6	15.6	19	17	41.5	65.4
ø 12	3/8	KQB2E12-G03	M20 x 1	24	24	35.9	14.7	21	18.6	58.3	119.2
012	1/2	KQB2E12-G04		27	24	42.2	21	21	10.0		91.9
ø 16	3/8	KQB2E16-G03	M27 x 1	29	30	37.2	13.1	28	20.8	96	118.2
010	1/2	KQB2E16-G04		29	30	43.1	19	28	20.8	113	128.7

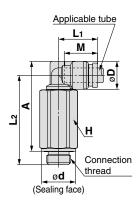


Note) Value of FEP tube. Value of nylon tube for ø16 only.

Extended Male Union: KQB2W



	_										
Applicable tube O.D. (mm)	Connection thread G	Model	(Width across flat)	Note 1) Ø D	ød	L1	L2	A	м	Note 2) Effective area (mm ²)	Weight (g)
ø4	1/8	KQB2W04-G01	14	9.1	13.8	14.4	35.3	34.3	12.6	4	34.5
04	1/4	KQB2W04-G02	19	9 9.1	17.8	14.4	38.7	36.7	12.0	4	70.6
	1/8	KQB2W06-G01	14		13.8		36.4	36.6			36.1
ø 6	1/4	KQB2W06-G02	19	11.4	17.8	15.9	39.8	39	13.6	10.9	72.2
	3/8	KQB2W06-G03	22		21.8		42.3	40.5			106.7
	1/8	KQB2W08-G01	14	13.7	13.8	18.6	40	41.3	16.1	20.5	41.3
ø 8	1/4	KQB2W08-G02	19		17.8	191	43.4	43.7			76.7
	3/8	KQB2W08-G03	22		21.8		45.9	45.2			112.9
	1/4	KQB2W10-G02	19		17.8		49.8	51.6			84.8
ø 10	3/8	KQB2W10-G03	22	16.6	21.8	21	50.2	51	17	33.5	116.6
	1/2	KQB2W10-G04	27		26.5		54.2	53.5			196.6
	1/4	KQB2W12-G02	19		17.8	22.6	50.9	53.7			88.7
ø 12	3/8	KQB2W12-G03	22	18.7	21.8	23.6	53.3	55.1	18.6	47.7	111.6
	1/2	KQB2W12-G04	27		26.5	23.0	57.3	57.6			193.8
~16	3/8	KQB2W16-G03	22	04.6	21.8	26.3	62	66.1	20.0	71	133.6
ø 16	1/2	KQB2W16-G04	27	24.6	26.5	27.3	66	68.6	20.8	100	201.6
	Note 1) cD is maximum diameter										



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

Value of nylon tube for ø16 only.

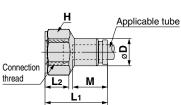
Note 2)

Female Connector: KQB2F



Applicable tube O.D. (mm)	thread G	Model	(Width across flat)	Note 1) Ø D	L1	L2	м	Effective area (mm ²)	Weight (g)
ø 4	1/8	KQB2F04-G01	17	8.7	25	9.5	10.6	5.6	21
Ø 4	1/4	KQB2F04-G02	19	0.7	30.6	14.5	12.6	5.0	32
	1/8	KQB2F06-G01	17		25.5	9.7			22.6
ø 6	1/4	KQB2F06-G02	19	11.1	31.1	14.7	13.6	13.1	33
	3/8	KQB2F06-G03	24		32.6	14.6			51.1
	1/8	KQB2F08-G01	17		27.6	10			25.1
ø 8	1/4	KQB2F08-G02	19	13.4	33.2	14.9	16.1	26.1	36.3
	3/8	KQB2F08-G03	24	24	34.6	14.7			53.8
ø 10	1/4	KQB2F10-G02	19	16.4	33.5	15.2	17	41.5	39.9
010	3/8	KQB2F10-G03	24	10.4	34.9	15	17	41.5	57.7
	1/4	KQB2F12-G02	19		34.5	15.2			41.8
ø 12	3/8	KQB2F12-G03	24	18.5	35.9	15	18.6	58.3	59.7
	1/2	KQB2F12-G04	27		41.8	19.9			81.6
~16	3/8	KQB2F16-G03	24	24.6	37.2	15.4	20.0	81	66.6
ø 16	1/2	KQB2F16-G04	27	24.0	43.1	20.4	20.8	113	89.1
	Note 1) øD is maximum diameter.								er.

₿SMC



Note 2) Value of FEP tube.

Value of nylon tube for ø16 only.



Series KQB2 Specific Product Precautions

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for Fittings and Tubing Precautions.

Selection

ACaution

- 1. The surge pressure must be under the maximum operating pressure. If the surge pressure exceeds the maximum operating pressure, it will result in damage to fittings and tubes or the tube may result in being fallen out.
- 2. If using a fluororesin tube in an environment where the fluid temperature changes drastically, it is recommended to use an inner sleeve. Otherwise, air leakage may occur or the tube may release from fitting due to deformation of the tube.
- 3. The particle generation of the KQB2 series depends on the operating conditions and operating environment. If you are concerned about the effects on machinery and equipment, check the particle generation with your machine before use.

The components of the KQB2 series may slide due to changes in the internal pressure, which may generate particles. When using male elbow, male branch tee, and extended male elbow fittings, particles may be generated by rotation for positioning after connecting.

Mounting

∆Caution

- The union elbow, union tee, union "Y", different diameter tee, and different diameter union "Y" fittings should be fixed through the mounting hole. Otherwise, air leakage or breaking can occur due to a pulling force or moment load created by the product's weight.
- 2. The male elbow, male branch tee, and extended male elbow fittings can be rotated for positioning, but they cannot be used rotating. This will cause metal debris by wearing, which may enter the operating fluid or cause fitting damage.
- 3. Keep the connection part of fittings and tubes from rotating or oscillating movement.

Installation and Removal of Tube

ACaution

- 1. Installation of tube
 - Grease is not used for the KQB2 series, therefore a greater insertion force is required when the tube is installed. In particular, polyurethane tube may fold when inserted due to its softness. Hold the end of the tube, and insert it all the way in slowly and securely. Refer to dimension "M" in the dimension drawings for guidance on the insertion depth of tube.

2. Removal of tube

 For tube used at a high temperature or for an extended period of time, there is a possibility that it will not fit into a one-touch fitting again due to an enlarged O.D. Dispose of the tube and replace it with a new one.

G Thread Fittings

Caution

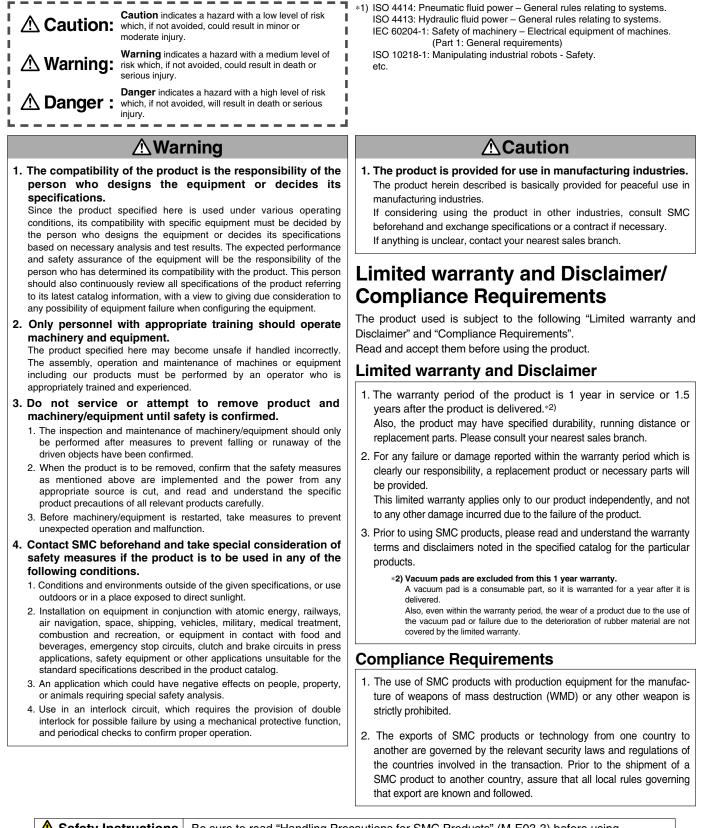
1. The standard thread torques of the fittings are as shown in the below table.

Connection thread size	Proper tightening torque N·m						
G1/8	2.9 to 3.2						
G1/4	5.7 to 6.3						
G3/8	9.5 to 10.5						
G1/2	14.3 to 15.8						





These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "**Caution**," "**Warning**" or "**Danger**." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.



A Safety Instructions Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.

SMC Corporation

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