

Stainless Steel 316 One-touch Fittings

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

KQG2 Series

RoHS



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane, Polyolefin
Tubing O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16

Specifications

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

Note 1) Consult with SMC regarding applicable tube separately.

Note 2) Using special FKM that is resistant even when steam is used.

Note 3) Used using in a vacuum holding application such as a leak tester, since there is leakage.

Note 4) Check the operating pressure range and operating temperature range of the tubing.

Note 5) 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

Tubing	Temperature
FEP tubing/TH Series	80°C or more
Super PFA tubing/TL Series	120°C or more

Spare Parts

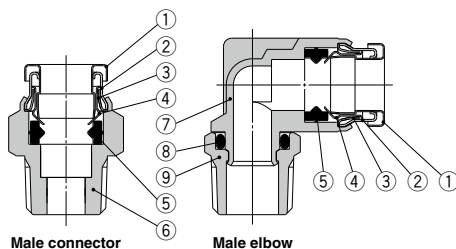
Description	Tubing O.D.	Part no.	Material
Gasket	—	M-5G3	Stainless steel 316, Special FKM
Bulkhead nut	ø3.2, ø4	KQG223-P01	Stainless steel 316
	ø6	KQG206-P01	
	ø8	KQG208-P01	
	ø10	KQG210-P01	
	ø12	KQG212-P01	
	ø16	KQG216-P01	

Cross Reference Table of the Inner Sleeve

Tubing O.D.	Tubing material			Applicable inner sleeve	
	TUS (Soft polyurethane)	TH/TH (FEP)	TL/TIL (Super PFA)	Part no.	Length
ø4	—	TH0402	—	TJG-0402	18
	TUS0425	TH0425	—	TJG-0425	18
ø6	—	—	TL0403	TJG-0403	18
	TUS0604	TH0604	TL0604	TJG-0604	19
ø8	TUS0805	—	—	TJG-0805	20.5
	—	TH0806	TL0806	TJG-0806	20.5
ø10	TUS1065	—	—	TJG-1065	23
	—	TH1075	—	TJG-1075	23
	—	TH1008	TL1008	TJG-1008	23
	TUS1208	—	—	TJG-1208	24
ø12	—	TH1209	—	TJG-1209	24
	—	TH1210	TL1210	TJG-1210	24

* Stainless steel 316 is used for the TJG series.

Construction



Component Parts

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

Dimensions

Male Connector: KQG2H



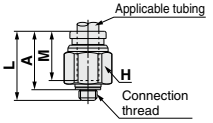
Applicable tubing O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	øD	L	A*	M	Note 1) Effective area (mm ²)	Weight (g)
ø3.2	M5 x 0.8	KQG2H23-M5	8	—	16.5	13.5	12	3	3.3
	1/8	KQG2H23-01S	10		15.4	12.3		3.4	5.7
	1/4	KQG2H23-02S	14		21	16.3		4	16.9
ø4	M5 x 0.8	KQG2H04-M5	8	—	17.1	14.1	12.6	4	5
	1/8	KQG2H04-01S	10		15.3	12.2		5.6	4.7
	1/4	KQG2H04-02S	14		20.9	16.2		4	15.8
ø6	M5 x 0.8	KQG2H06-M5	12	—	19.1	16.1	13.6	4	7.7
	1/8	KQG2H06-01S	14		18.1	15		13.1	7
	1/4	KQG2H06-02S	14		20.8	16.1		13.1	14.5
ø8	3/8	KQG2H06-03S	17	—	23	17.9	16.1	26.1	27.3
	1/8	KQG2H08-01S	14		24.5	21.4		26.1	12.8
	1/4	KQG2H08-02S	14		22.3	17.6		26.1	12.9
ø10	3/8	KQG2H08-03S	17	—	23.7	18.6	17	26.1	24.7
	1/8	KQG2H10-01S	17		25.5	22.4		41.5	18.9
	1/4	KQG2H10-02S	17		27.9	23.2		41.5	21.6
ø12	3/8	KQG2H10-03S	22	—	23	17.9	18.6	58.3	20.6
	1/2	KQG2H10-04S	22		28.6	22.2		58.3	51.1
	1/4	KQG2H12-02S	19		30.5	25.8		58.3	27.4
ø16	3/8	KQG2H12-03S	22	24.6	24.7	19.6	20.8	81	20.5
	1/2	KQG2H12-04S	22		28.7	22.3		81	44.6
	3/8	KQG2H16-03S	24		33.6	28.5		113	46
	1/2	KQG2H16-04S	24		29.5	23.1		113	37.4

* Reference dimensions after installation for R thread

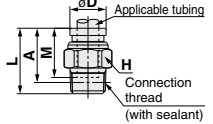
Note 1) Value of FEP tubing.

Value of nylon tubing for ø16 only.

(M5)



(R)



Hexagon Socket Head Male Connector: KQG2S



Applicable tubing O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) øD	L	A*	M	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	M5 x 0.8	KQG2S23-M5	2	9	16.5	13.5	12	3	3.8
ø4	M5 x 0.8	KQG2S04-M5	2	9	17.1	14.1	12.6	4	3.7
	1/8	KQG2S04-01S	3	10	19.6	16.5		4.1	7.6
ø6	M5 x 0.8	KQG2S06-M5	2	12	19.6	16.6	13.6	4	7.4
	1/8	KQG2S06-01S	4	14	20.6	17.5		10	8.7
	1/4	KQG2S06-02S	4	14	20.6	15.9		10.7	14
ø8	1/8	KQG2S08-01S	5	14	24.7	21.6	16.1	17.2	12.3
	1/4	KQG2S08-02S	5	14	22.9	18.2		23.3	12.8
	3/8	KQG2S08-03S	6	17	23.1	18		23.3	22.8
ø10	1/8	KQG2S10-01S	5	17	25.6	22.5	17	17.2	17.7
	1/4	KQG2S10-02S	8	17	27.5	22.8		39	19.1
	3/8	KQG2S10-03S	8	22	24	18.9		39	20.9
ø12	1/2	KQG2S10-04S	8	22	17.6	17.6	18.6	46	37.2
	1/4	KQG2S12-02S	8	19	30.6	25.9		46	24.8
	3/8	KQG2S12-03S	10	19	24.9	19.8		60	19.3
ø16	1/2	KQG2S12-04S	10	22	18.5	18.5	20.8	60	33.6
	3/8	KQG2S16-03S	10	24.6	33.2	28.1		81	41.6
	1/2	KQG2S16-04S	12	24.6	29.4	23		113	38.4

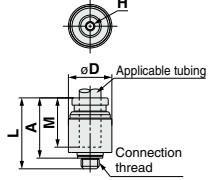
* Reference dimensions after installation for R thread

Note 1) For the ø16, this dimension refers to the O.D. of the release button.

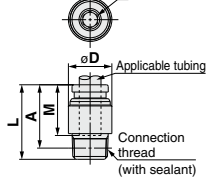
Note 2) Value of FEP tubing.

Value of nylon tubing for ø16 only.

(M5)



(R)



Straight Union: KQG2H

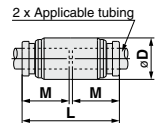


Applicable tubing O.D. (mm)	Model	øD Note 1)	L	M	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	KQG2H23-00	9	25	12	3.4	6.5
ø4	KQG2H04-00	9	26.2	12.6	5.6	6.5
ø6	KQG2H06-00	12	28.2	13.6	13.1	11.5
ø8	KQG2H08-00	14	33.2	16.1	26.1	16.6
ø10	KQG2H10-00	17	35	17	41.5	26
ø12	KQG2H12-00	19	38.2	18.6	58.3	32.2
ø16	KQG2H16-00	24.6	42.6	20.8	113	53.7

Note 1) For the ø16, this dimension refers to the O.D. of the release button.

Note 2) Value of FEP tubing.

Value of nylon tubing for ø16 only.



KQG2 Series

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

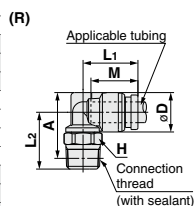
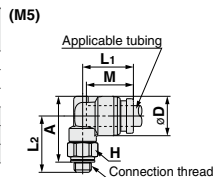
Dimensions

Male Elbow: KQG2L



Applicable tubing O.D. (mm)	Connection thread R, M	Model	H (With across flut)	Note 1) øD	L1	L2	A*	M	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	M5 x 0.8	KQG2L23-M5	8	8.3	13.1	14.8	16	12	2.6	6.3
	1/8	KQG2L23-01S	10		13.6	14.9	15.9			7.6
	1/4	KQG2L23-02S	14		13.7	15.2	16.8			16
ø4	M5 x 0.8	KQG2L04-M5	8	9.1	13.7	15.2	16.8	12.6	3.5	6.9
	1/8	KQG2L04-01S	10		14.4	15.3	16.7			8.5
	1/4	KQG2L04-02S	14		14.7	16.3	19			16.8
ø6	M5 x 0.8	KQG2L06-M5	8	11.4	14.7	16.3	19	13.6	11.4	8.8
	1/8	KQG2L06-01S	10		15.9	20.2	21.2			10.1
	1/4	KQG2L06-02S	14		15.9	21.6	22.2			18.4
ø8	3/8	KQG2L06-03S	17	13.7	18.6	18.3	22	16.1	21.6	29.9
	1/8	KQG2L08-01S	12		18.6	21.5	23.6			14.6
	1/4	KQG2L08-02S	14		19.1	22.9	24.6			20.3
ø10	3/8	KQG2L08-03S	17	16.6	20	19.7	24.9	17	35.2	31.6
	1/8	KQG2L10-01S	12		21	22.9	26.5			20.2
	1/4	KQG2L10-02S	14		21	24.3	27.5			23.3
ø12	3/8	KQG2L10-03S	17	18.7	22.6	24	28.6	18.6	50.2	33.6
	1/2	KQG2L12-02S	22		23.6	29.5	32.4			60.1
	3/8	KQG2L12-03S	17		26.3	28	34.5			27.1
ø16	3/8	KQG2L16-03S	19	24.6	27.3	31.8	37	20.8	100	33.7
	1/2	KQG2L16-04S	22		27.3	31.8	37			46.3
										61.3

* Reference dimensions after installation for R thread
Note 1) For the ø16, this dimension refers to the O.D. of the release button.
Note 2) Value of FEP tubing.
Value of nylon tubing for ø16 only.

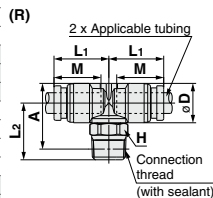
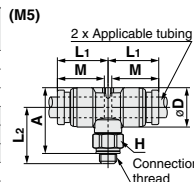


Male Branch Tee: KQG2T



Applicable tubing O.D. (mm)	Connection thread R, M	Model	H (With across flut)	Note 1) øD	L1	L2	A*	M	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	M5 x 0.8	KQG2T23-M5	8	8.3	13.1	14.8	16	12	3.2	8.1
	1/8	KQG2T23-01S	10		13.6	14.9	15.9			9.4
	1/4	KQG2T23-02S	14		13.7	15.2	16.8			17.7
ø4	M5 x 0.8	KQG2T04-M5	8	9.1	13.7	15.2	16.8	12.6	4.5	9
	1/8	KQG2T04-01S	10		14.4	15.3	16.7			10.4
	1/4	KQG2T04-02S	14		14.7	16.3	19			18.8
ø6	M5 x 0.8	KQG2T06-M5	8	11.4	14.7	16.3	19	13.6	13.9	11.9
	1/8	KQG2T06-01S	10		15.9	20.2	21.2			13.4
	1/4	KQG2T06-02S	14		15.9	21.6	22.2			21.8
ø8	3/8	KQG2T06-03S	17	13.7	18.6	18.3	22	16.1	26.3	33.3
	1/8	KQG2T08-01S	12		18.6	21.5	23.6			20
	1/4	KQG2T08-02S	14		19.1	22.9	24.6			25.5
ø10	3/8	KQG2T08-03S	17	16.6	20	19.7	24.9	17	40.8	36.8
	1/8	KQG2T10-01S	12		21	22.9	26.5			28.4
	1/4	KQG2T10-02S	14		21	24.3	27.5			31.1
ø12	3/8	KQG2T10-03S	17	18.7	22.6	24	28.6	18.6	57.2	41.4
	1/2	KQG2T12-02S	22		23.6	29.5	32.4			68
	3/8	KQG2T12-03S	17		26.3	28	34.5			37.8
ø16	3/8	KQG2T12-04S	19	24.6	27.3	31.8	37	20.8	100	68.8
	1/2	KQG2T16-03S	22		27.3	31.8	37			63.7
										77.6

* Reference dimensions after installation for R thread
Note 1) For the ø16, this dimension refers to the O.D. of the release button.
Note 2) Value of FEP tubing.
Value of nylon tubing for ø16 only.

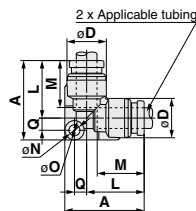


Union Elbow: KQG2L



Applicable tubing O.D. (mm)	Model	Note 1) øD	L	A	Q	M	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	KQG2L23-00	8.3	13.6	19.3	2.9	12	3.2	5.6	3	6.3
ø4	KQG2L04-00	9.1	14.6	20.5	3.1	12.6	3.2	5.6	4.2	7.4
ø6	KQG2L06-00	11.4	16.6	23	3.6	13.6	3.2	5.6	11.4	11
ø8	KQG2L08-00	13.7	20.1	29.1	5	16.1	4.2	8	21.6	20.2
ø10	KQG2L10-00	16.6	22	31.7	5.7	17	4.2	8	35.2	29.6
ø12	KQG2L12-00	18.7	24.6	35	6.4	18.6	4.2	8	50.2	37.1
ø16	KQG2L16-00	24.6	28.8	40.5	7.7	20.8	4.2	8	100	59.7

Note 1) For the ø16, this dimension refers to the O.D. of the release button.
Note 2) Value of FEP tubing.
Value of nylon tubing for ø16 only.



Stainless Steel 316 One-touch Fittings **KQG2 Series**

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

Dimensions

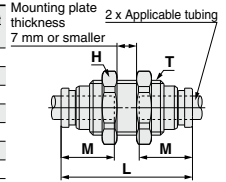
Bulkhead Union: KQG2E



Applicable tubing O.D. (mm)	Model	T (M)	H (Width across flat)	L	Mounting hole	M	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	KQG2E23-00	M10 x 1	12	32.2	11	12	3.4	14
ø4	KQG2E04-00	M10 x 1	12	32.4	11	12.6	5.6	14
ø6	KQG2E06-00	M14 x 1	17	33.6	15	13.6	13.1	25.8
ø8	KQG2E08-00	M15 x 1	19	36.4	16	16.1	26.1	30.4
ø10	KQG2E10-00	M18 x 1	21	37.2	19	17	41.5	40.3
ø12	KQG2E12-00	M20 x 1	24	39.2	21	18.6	58.3	49.9
ø16	KQG2E16-00	M27 x 1	30	42.6	28	20.8	113	87.3

Note) Value of FEP tubing.

Value of nylon tubing for ø16 only.



Union Tee: KQG2T

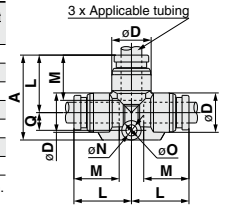


Applicable tubing O.D. (mm)	Model	Note 1) øD	L	A	Q	M	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	KQG2T23-00	8.3	13.6	20.5	4.1	12	3.2	5.6	3.4	7.9
ø4	KQG2T04-00	9.1	14.6	21.8	4.4	12.6	3.2	5.6	6.4	9.5
ø6	KQG2T06-00	11.4	16.6	24.6	5.2	13.6	3.2	5.6	13.4	14.2
ø8	KQG2T08-00	13.7	20.1	31.1	7	16.1	4.2	8	25.6	24.4
ø10	KQG2T10-00	16.6	22	34	8	17	4.2	8	40	36.8
ø12	KQG2T12-00	18.7	24.6	37.7	9.1	18.6	4.2	8	57.4	46.9
ø16	KQG2T08-00	24.6	28.8	43.4	10.6	20.8	4.2	8	100	75.5

Note 1) For the ø16, this dimension refers to the O.D. of the release button.

Note 2) Value of FEP tubing.

Value of nylon tubing for ø16 only.



Union "Y": KQG2U

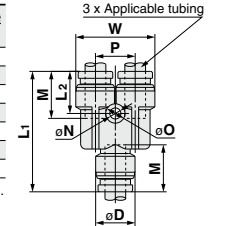


Applicable tubing O.D. (mm)	Model	Note 1) øD	W	L1	L2	P	M	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
ø3.2	KQG2U23-00	8.3	16.4	29	11	8.1	12	3.2	5.6	3.4	9.2
ø4	KQG2U04-00	9.1	18.2	30.4	11.3	9.1	12.6	3.2	5.6	4.2	11.1
ø6	KQG2U06-00	11.4	22.9	34.9	12.2	11.5	13.6	3.2	5.6	13.4	18.8
ø8	KQG2U08-00	13.7	28.3	40.1	14.1	14.6	16.1	4.2	8	25.6	29.7
ø10	KQG2U10-00	16.6	34.2	44	14.4	17.6	17	4.2	8	40	47.4
ø12	KQG2U12-00	18.7	38.5	48.4	15.8	19.8	18.6	4.2	8	57.4	62.1
ø16	KQG2U16-00	24.6	49.3	56.6	17.3	26	20.8	4.2	8	113	110.2

Note 1) For the ø16, this dimension refers to the O.D. of the release button.

Note 2) Value of FEP tubing.

Value of nylon tubing for ø16 only.



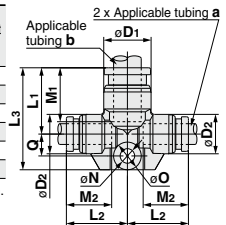
Different Diameter Tee: KQG2T



Applicable tubing 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)
ø3.2 ø4	KQG2T23-04	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	KQG2T04-06	11.4	9.1	15.6	15.7	22.8	4.4	13.6	12.6	3.2	5.6	7.1	11.5
ø6 ø8	KQG2T06-08	13.7	11.4	19.1	17.7	29.5	6.4	16.1	13.6	4.2	8	16.4	20
ø8 ø10	KQG2T08-10	16.6	13.7	21	21.2	32.1	7.1	17	16.1	4.2	8	36	29.8
ø10 ø12	KQG2T10-12	18.7	16.6	23.6	23.1	35.7	8.1	18.6	17	4.2	8	56	41.3
ø12 ø16	KQG2T12-16	24.6	18.7	26.8	26.7	39.9	9.1	20.8	18.6	4.2	8	108.5	58

Note 1) For the ø16, this dimension refers to the O.D. of the release button.

Note 2) Value of FEP tubing.

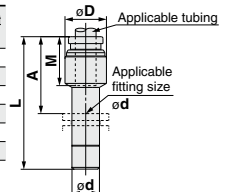


Plug-in Reducer: KQG2R



Applicable tubing O.D. (mm)	Applicable fitting size ød	Model	øD	L	A	M	Note) Effective area (mm ²)	Weight (g)
ø3.2	ø4	KQG2R23-04	9	32.9	20.3	12	3.4	4.7
ø4	ø6	KQG2R04-06	9	34.4	20.8	12.6	5.6	6.7
ø6	ø8	KQG2R06-08	12	38.4	22.3	13.6	13.1	12.1
ø8	ø10	KQG2R08-10	14	41.9	24.9	16.1	26.1	18.3
ø10	ø12	KQG2R10-12	17	44.8	26.2	17	41.5	26.5
ø12	ø16	KQG2R12-16	19	42.9	22.1	18.6	58.3	35.4

Note) Value of FEP tubing.



KQG2 Series

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

Dimensions

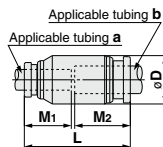
Different Diameter Straight: KQG2H



Applicable tubing O.D. (mm)		Model	Note 1) øD	L	M ₁	M ₂	Note 2) Effective area (mm ²)	Weight (g)
a	b							
ø3.2	ø4	KQG2H23-04	9	25.6	12	12.6	3.4	6.5
ø4	ø6	KQG2H04-06	12	27.2	12.6	13.6	5.6	11.6
ø6	ø8	KQG2H06-08	14	30.7	13.6	16.1	13.1	16.3
ø8	ø10	KQG2H08-10	17	34.1	16.1	17	26.1	26
ø10	ø12	KQG2H10-12	19	36.6	17	18.6	41.5	33.3
ø12	ø16	KQG2H12-16	24.6	40.4	18.6	20.8	58.3	54.7

Note 1) For the ø16, this dimension refers to the O.D. of the release button.

Note 2) Value of FEP tubing.



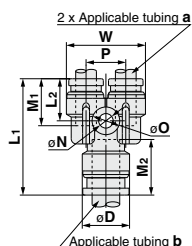
Different Diameter Union "Y": KQG2U



Applicable tubing O.D. (mm)		Model	Note 1) øD	L ₁	L ₂	P	W	M ₁	M ₂	øN	øO	Note 2) Effective area (mm ²)	Weight (g)
a	b												
ø3.2	ø4	KQG2U23-04	9.1	27	10.8	8.1	16.4	12	12.6	3.2	5.6	3.2	8.5
ø4	ø6	KQG2U04-06	11.4	29.3	11.2	9.1	18.2	12.6	13.6	3.2	5.6	4.2	11.9
ø6	ø8	KQG2U06-08	13.7	33.7	12.2	11.5	22.9	13.6	16.1	4.2	8	13.4	19.3
ø8	ø10	KQG2U08-10	16.6	38.3	13.8	14.6	28.3	16.1	17	4.2	8	25.6	31.6
ø10	ø12	KQG2U10-12	18.7	43	14	17.6	34.2	17	18.6	4.2	8	40	47.6
ø12	ø16	KQG2U12-16	24.6	47.4	15.6	19.8	38.5	18.6	20.8	4.2	8	57.4	67.6

Note 1) For the ø16, this dimension refers to the O.D. of the release button.

Note 2) Value of FEP tubing.



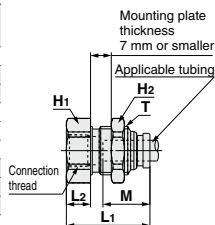
Bulkhead Connector: KQG2E



Applicable tubing O.D. (mm)	Connection thread Rc	Model	T (M)	Width across flat		L ₁	L ₂	Mounting hole	M	Note 2) Effective area (mm ²)	Weight (g)
				H ₁	H ₂						
ø3.2	1/4	KQG2E23-02	M10 x 1	17	12	31	14.8	11	12	3.4	26.1
ø4	1/8	KQG2E04-01	M10 x 1	14	12	25.8	9.7	11	12.6	5.6	16
	1/4	KQG2E04-02		17	12	30.9	14.8				25.6
ø6	1/8	KQG2E06-01	M14 x 1	17	17	24.2	7	15	13.6	13.1	24.4
	1/4	KQG2E06-02		17	17	30.9	13.7				30.9
	3/8	KQG2E06-03		19	19	32.1	14.9				32
ø8	1/8	KQG2E08-01	M15 x 1	17	17	26.3	8.1	16	16.1	26.1	28
	1/4	KQG2E08-02		19	19	31.3	13.1				31.2
	3/8	KQG2E08-03		19	19	32.8	14.6				32.7
ø10	1/4	KQG2E10-02	M18 x 1	19	21	31.6	13	19	17	41.5	42.8
	3/8	KQG2E10-03		21	24	33	14.4				37.5
ø12	3/8	KQG2E12-03	M20 x 1	21	24	34	14.4	21	18.6	58.3	50.3
	1/2	KQG2E12-04		24	24	39.3	19.7				60.7
ø16	3/8	KQG2E16-03	M27 x 1	29	30	35.3	13.3	28	20.8	96	107.8
	1/2	KQG2E16-04		29	30	40.6	18.6				113

Note) Value of FEP tubing.

Value of nylon tubing for ø16 only.



Dimensions

Extended Male Elbow: KQG2W



Applicable tubing 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	KQG2W23-M5	8	8.3	13.1	31.2	32.4	12	2.8	13
	1/8	KQG2W23-01S	10		13.6	31.3	32.3			14.7
	1/4	KQG2W23-02S	14			35.1	34.5			33.1
$\phi 4$	M5 x 0.8	KQG2W04-M5	8	9.1	13.7	31.6	33.2	12.6	3	13.6
	1/8	KQG2W04-01S	10		14.4	31.7	33.1			15.6
	1/4	KQG2W04-02S	14			35.5	35.3			33.9
$\phi 6$	M5 x 0.8	KQG2W06-M5	8	11.4	14.7	32.7	35.4	13.6	3	15.5
	1/8	KQG2W06-01S	10			32.8				17.2
	1/4	KQG2W06-02S	14		15.9	36.6	37.6			35.5
$\phi 8$	3/8	KQG2W06-03S	17	13.7	38	38.6		16.1	10.9	57.4
	1/8	KQG2W08-01S	12		18.6	37	40.7			28
	1/4	KQG2W08-02S	14		19.1	40.2	42.3			37.7
$\phi 10$	3/8	KQG2W08-03S	17	16.6		41.6	43.3	17	33.5	60.9
	1/4	KQG2W10-02S	14			46.6	50.2			40.7
	3/8	KQG2W10-03S	17		21	45.9	49.1			61.9
$\phi 12$	1/2	KQG2W10-04S	22	18.7		50.1	52	18.6	47.7	117.3
	1/4	KQG2W12-02S	14		22.6	47.7	52.3			44.6
	3/8	KQG2W12-03S	17		23.6	49	53.2			56.3
$\phi 16$	1/2	KQG2W12-04S	22	24.6		53.2	56.1	20.8	71	112.9
	3/8	KQG2W16-03S	19		26.3	57.6	64.1			86.6
	1/2	KQG2W16-04S	22		27.3	61.4	66.6			111.8

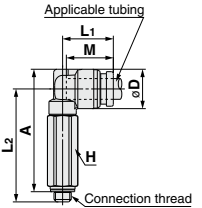
* Reference dimensions after installation for R thread

Note 1) For the $\phi 16$, this dimension refers to the O.D. of the release button.

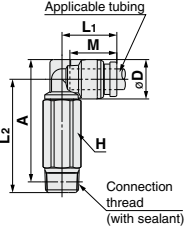
Note 2) Value of FEP tubing.

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

(M5)



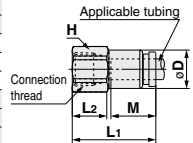
(R)



Female Connector: KQG2F



Applicable tubing 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	KQG2F23-01	12	8.7	23.3	9.8	12	3.4	8.9
	1/8	KQG2F04-01	12		23.7	9.8	12.6	5.6	9.2
$\phi 4$	1/4	KQG2F04-02	17	11.1	28.7	13.2	13.6	13.1	21.6
	1/8	KQG2F06-01	12		24.2	10			10.5
$\phi 6$	1/4	KQG2F06-02	17	13.4	29.2	13.4	16.1	26.1	23.1
	3/8	KQG2F06-03	19		30.6	14.2			24.5
$\phi 8$	1/8	KQG2F08-01	14	16.4	26.3	9.6	17	41.5	16.3
	1/4	KQG2F08-02	17		31.3	13.7			25.5
$\phi 10$	3/8	KQG2F08-03	19	18.5	32.7	14.4	18.6	58.3	27
	1/4	KQG2F10-02	17		31.6	13.9	20.8	81	28.8
$\phi 12$	3/8	KQG2F10-03	19	24	33	14.7			30.4
	1/2	KQG2F12-02	19		32.6	13.3	20.8	113	37.5
$\phi 16$	3/8	KQG2F12-03	24	24.6	34	14.7			32.3
	1/2	KQG2F12-04	24		39.3	18.4			50.2
$\phi 16$	3/8	KQG2F16-03	24	24.6	35.3	13.5	20.8	81	59.7
	1/2	KQG2F16-04	24		40.6	18.8			57



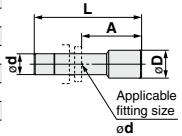
Note 1) For the $\phi 10$, $\phi 12$, and $\phi 16$, this dimension refers to the O.D. of the release button.

Note 2) Value of FEP tubing.
Value of nylon tubing for $\phi 16$ only.

Plug: KQG2P



Applicable fitting size ϕd	Model	ϕD	L	A	Weight (g)
$\phi 3.2$	KQG2P-23	5	28.9	16.9	2.7
$\phi 4$	KQG2P-04	6	29.6	17	4.1
$\phi 6$	KQG2P-06	8	30.8	17.2	8.5
$\phi 8$	KQG2P-08	10	33.7	17.6	15.5
$\phi 10$	KQG2P-10	12	34.6	17.6	24.1
$\phi 12$	KQG2P-12	14	36.5	17.9	35.8
$\phi 16$	KQG2P-16	18	38.6	17.8	65.5



Related Equipment

Spatter cover

(Applicable tubing: FR soft nylon, FR double layer, FR three-layer)



Applicable tubing O.D. (mm)	Model
$\phi 6$	KQB2-06C-X1124
$\phi 8$	KQB2-08C-X1124
$\phi 10$	KQB2-10C-X1124

* Since the spatter cover is designed for multi-layer (double layer, three-layer) tubing, sufficient effects cannot be obtained in foreign matter flow-in or followability for singlelayer tubing.

* The cover can be attached regardless of the single-layer/multi-layer tubing.

* Cannot be used for union "Y" (KQG2U) 2-port side.

Stainless Steel 316 One-touch Fittings

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

KQG2 Series

RoHS



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane, Polyolefin
Tubing O.D.	ø1/8", ø5/32", ø1/4", ø5/16", ø3/8", ø1/2"

Specifications

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

Note 1) Consult with SMC regarding applicable tubing separately.

Note 2) Using special FKM that is resistant even when steam is used.

Note 3) Avoid using in a vacuum holding application such as a leak tester, since there is leakage.

Note 4) Check the operating pressure range and operating temperature range of the tubing.

Note 5) 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

Tubing	Temperature
FEP tubing/TH Series	80°C or more
Super PFA tubing/TL Series	120°C or more

Spare Parts

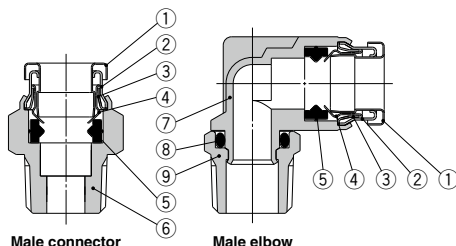
Description	Tubing O.D.	Part no.	Material
Gasket	—	M-5G3	Stainless steel 316, Special FKM
Bulkhead nut	ø1/8", ø5/32"	KQG201-P01	Stainless steel 316
	ø1/4"	KQG207-P01	
	ø5/16"	KQG209-P01	
	ø3/8"	KQG211-P01	
	ø1/2"	KQG213-P01	

Cross Reference Table of the Inner Sleeve

Tubing O.D.	Tubing material		Applicable inner sleeve	
	TH/THI (FEP)	TL/TIL (Super PFA)	Part no.	Length
ø5/32"	TH0402	—	TJG-0402	18
	TH0425	—	TJG-0425	18
	—	TL0403	TJG-0403	18
ø1/4"	TIHB07	TIL07	TJG-0604	19
	TIHA07	—	TJG-0746	19
ø5/16"	TH0806	TL0806	TJG-0806	20.5
ø3/8"	TIHB11	TIL11	TJG-1065	23
	TIHA11	—	TJG-1107	23
ø1/2"	TIH13	TIL13	TJG-1395	24

* Stainless steel 316 is used for the TJG series.

Construction



Component Parts

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

Dimensions

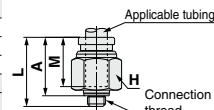
Male Connector: KQG2H



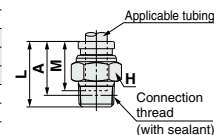
Applicable tubing O.D. (inch)	Connection thread UNF, NPT	Model	H (Width across flat)	L	A*	M	Note) Effective area (mm ²)	Weight (g)
ø1/8"	10-32UNF	KQG2H01-32	8	16.5	13.5	12	3	3.3
	1/8	KQG2H01-N01S	12	17.1	13.9		3.4	8.1
	1/4	KQG2H01-N02S	14	20.9	16.5		4	16.9
ø5/32"	10-32UNF	KQG2H03-32	10	17.1	14.1	12.6	4	5
	1/8	KQG2H03-N01S	12	17	13.8		5.6	7.6
	1/4	KQG2H03-N02S	14	20.9	16.5		5.6	16.4
ø1/4"	10-32UNF	KQG2H07-32	12	19	16	13.5	4	7.5
	1/8	KQG2H07-N01S	12	20	16.8		13.1	8.6
	1/4	KQG2H07-N02S	14	20.6	16.2		13.1	14.2
ø5/16"	3/8	KQG2H07-N03S	19	23.8	19.1	16.1	26.1	31.4
	1/8	KQG2H09-N01S	14	24.2	21		26.1	12.6
	1/4	KQG2H09-N02S	14	23.1	18.7		26.1	13.9
ø3/8"	3/8	KQG2H09-N03S	19	24.6	19.9	16.6	26.1	28.9
	1/8	KQG2H11-N01S	17	25	21.8		41.5	19.4
	1/4	KQG2H11-N02S	17	26.3	21.9		41.5	20.3
ø1/2"	3/4	KQG2H11-N03S	19	23.6	18.9	18.5	58.3	25.2
	1/2	KQG2H11-N04S	22	28.3	21.9		58.3	51.8
	1/4	KQG2H13-N02S	22	30.5	26.1		58.3	36.7
	3/8	KQG2H13-N03S	22	28.4	23.7			34.4
	1/2	KQG2H13-N04S	22		22			43.4

* Reference dimensions after installation for NPT thread
Note) Value of FEP tubing.

(10-32UNF)



(NPT)



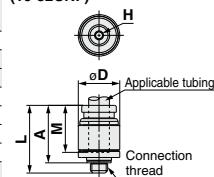
Hexagon Socket Head Male Connector: KQG2S



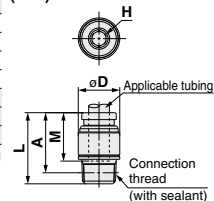
Applicable tubing O.D. (inch)	Connection thread UNF, NPT	Model	H (Width across flat)	øD	L	A*	M	Note) Effective area (mm²)	Weight (g)
ø1/8"	10-32UNF	KQG2S01-32	2	9	16.5	13.5	12	3	3.8
	10-32UNF	KQG2S03-32	2	9	17.1	14.1		4	3.7
ø5/32"	1/8	KQG2S03-N01S	2.78	11	19.6	16.4	12.6	4.1	8.5
	10-32UNF	KQG2S07-32	2		19.5	16.5		4	7.2
ø1/4"	1/8	KQG2S07-N01S	4.76	12		17.3	13.5	10	8.1
	1/4	KQG2S07-N02S		14	20.5	16.1		10.7	13.4
	3/8	KQG2S07-N03S		18		15.8			22.6
ø5/16"	1/8	KQG2S09-N01S	5.56	14	24.7	21.5		17.2	12
	1/4	KQG2S09-N02S	6.35	18	23.1	18.7	16.1	23.3	12.8
	3/8	KQG2S09-N03S				18.4		23.3	23.5
ø3/8"	1/8	KQG2S11-N01S	5.56	17	25.2	22		17.2	17.8
	1/4	KQG2S11-N02S	6.35	18	27.1	22.7	16.6		21.2
	3/8	KQG2S11-N03S				18.9		39	23.8
ø1/2"	1/2	KQG2S11-N04S	9.53	20	28.6	17.2			38.6
	1/4	KQG2S13-N02S		8	20	30.5	26.1	46	26.6
	3/8	KQG2S13-N03S			20	29.4	24.7	18.5	60
	1/2	KQG2S13-N04S		22	25.5	19.1			34.8

* Reference dimensions after installation for NPT thread
Note) Value of FEP tubing.

(10-32UNF)



(NPT)

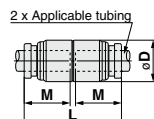


Straight Union: KQG2H



Applicable tubing O.D. (inch)	Model	øD	L	M	Note) Effective area (mm ²)	Weight (g)
ø1/8"	KQG2H01-00	9	25	12	3.4	6.5
ø5/32"	KQG2H03-00	9	26.2	12.6	5.6	6.5
ø1/4"	KQG2H07-00	12	28	13.5	13.1	11
ø5/16"	KQG2H09-00	14	33.2	16.1	26.1	16.6
ø3/8"	KQG2H11-00	16	34.2	16.6	41.5	22.7
ø1/2"	KQG2H13-00	20	38	18.5	58.3	35.5

Note) Value of FEP tubing.



KQG2 Series

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

Dimensions

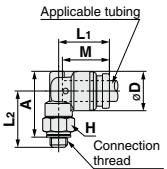
Male Elbow: KQG2L



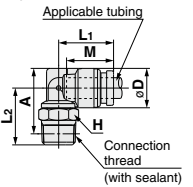
Applicable tubing O.D. (inch)	Connection thread UNF, NPT	Model	H (inch across flat)	øD	L1	L2	A*	M	Note) Effective area (mm²)	Weight (g)
ø1/8"	10-32UNF	KQG2L01-32	8	8.3	13.1	14.8	16	12	2.6	6.3
	1/8	KQG2L01-N01S	12		14.9	15.8			3	9
	1/4	KQG2L01-N02S	14		13.6	18.7	18.4		3	16.7
ø5/32"	10-32UNF	KQG2L03-32	8	9.1	13.7	15.2	16.8	12.6	3.5	6.9
	1/8	KQG2L03-N01S	12		14.4	15.3	16.6		4.2	9.9
	1/4	KQG2L03-N02S	14		14.7	19.1	19.2		3.5	8.9
ø1/4"	10-32UNF	KQG2L07-32	8	11.7	14.7	16.5	19.3	13.5	11.4	19.4
	1/8	KQG2L07-N01S	12		15.9	16.6	19.2		34.2	35.7
	1/4	KQG2L07-N02S	14		20.4	21.8			21.6	19.7
ø5/16"	10-32UNF	KQG2L09-N01S	12	13.7	18.6	18.3	21.9	16.1	21.6	21.1
	1/4	KQG2L09-N02S	14		19.1	21.5	23.9		35.7	35.7
	3/8	KQG2L09-N03S	19		20	19.4	24.2		21.6	19.7
ø3/8"	10-32UNF	KQG2L11-N01S	12	16	21	22.6	26.2	16.6	35.2	23.2
	1/4	KQG2L11-N02S	14		21	24.4	27.7		60.2	36.7
	3/8	KQG2L11-N03S	19		22	28.2	29.8		50.2	29.4
ø1/2"	10-32UNF	KQG2L13-N02S	14	19.6	22.7	24.4	29.8	18.5	50.2	39.2
	3/8	KQG2L13-N03S	19		23.7	26.1	31.2		61.3	61.3
	1/2	KQG2L13-N04S	22		29.9	33.3				

* Reference dimensions after installation for NPT thread
Note) Value of FEP tubing.

(10-32UNF)



(NPT)



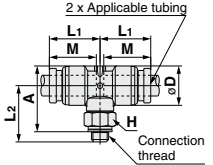
Male Branch Tee: KQG2T



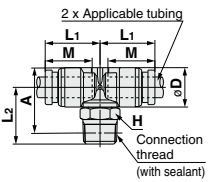
Applicable tubing O.D. (inch)	Connection thread UNF, NPT	Model	H (inch across flat)	øD	L1	L2	A*	M	Note) Effective area (mm²)	Weight (g)
ø1/8"	10-32UNF	KQG2T01-32	8	8.3	13.1	14.8	16	12	3.2	8.1
	1/8	KQG2T01-N01S	12		13.6	14.9	15.8		3.4	10.8
	1/4	KQG2T01-N02S	14		13.7	18.7	18.4		4.5	9
ø5/32"	10-32UNF	KQG2T03-32	8	9.1	13.7	15.2	16.8	12.6	6	11.8
	1/8	KQG2T03-N01S	12		14.4	15.3	16.6		19.1	19.2
	1/4	KQG2T03-N02S	14		14.7	16.5	19.3		4.5	12.1
ø1/4"	10-32UNF	KQG2T07-32	8	11.7	14.7	16.5	19.2	13.5	13.9	22.8
	1/8	KQG2T07-N01S	12		15.9	16.6	19.2		20.4	21.8
	1/4	KQG2T07-N02S	14		20.4	21.8			22.2	23.3
ø5/16"	10-32UNF	KQG2T09-N01S	12	13.7	18.6	18.3	21.9	16.1	26.3	26.3
	1/4	KQG2T09-N02S	14		19.1	21.5	23.9		41	41
	3/8	KQG2T09-N03S	19		20	19.4	24.2		27.3	30.5
ø3/8"	10-32UNF	KQG2T11-N01S	12	16	21	22.6	26.2	16.6	40.8	44
	1/4	KQG2T11-N02S	14		21	24.4	27.7		67.4	67.4
	3/8	KQG2T11-N03S	19		22	28.2	29.8		50.2	50.2
ø1/2"	10-32UNF	KQG2T13-N02S	14	19.6	22.7	24.4	29.8	18.5	57.2	72.3
	3/8	KQG2T13-N03S	19		23.7	26.1	31.2		72.3	72.3
	1/2	KQG2T13-N04S	22		29.9	33.3				

* Reference dimensions after installation for NPT thread
Note) Value of FEP tubing.

(10-32UNF)



(NPT)

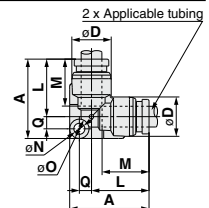


Union Elbow: KQG2L



Applicable tubing O.D. (inch)	Model	øD	L	A	Q	M	øN	øO	Note) Effective area (mm²)	Weight (g)
ø1/8"	KQG2L01-00	8.3	13.6	19.3	2.9	12	3.2	5.6	3	6.3
ø5/32"	KQG2L03-00	9.1	14.6	20.5	3.1	12.6	3.2	5.6	4.2	7.4
ø1/4"	KQG2L07-00	11.7	16.7	23.2	3.7	13.5	3.2	5.6	11.4	11.5
ø5/16"	KQG2L09-00	13.7	20.1	29.1	5	16.1	4.2	8	21.6	20.2
ø3/8"	KQG2L11-00	16	21.4	31.1	5.7	16.6	4.2	8	35.2	28.2
ø1/2"	KQG2L13-00	19.6	24.9	35.3	6.4	18.5	4.2	8	50.2	41.7

Note) Value of FEP tubing.



Stainless Steel 316
One-touch Fittings ***KQG2 Series***
Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

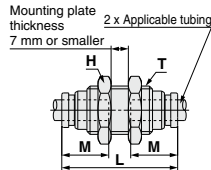
Dimensions

Bulkhead Union: KQG2E



Applicable tubing O.D. (inch)	Model	T (UNF)	H (Width across flat)	L	Mounting hole	M	Note) Effective area (mm ²)	Weight (g)
ø1/8"	KQG2E01-00	7/16-20UNF	14	34.2	12.5	12	3.4	20.7
ø5/32"	KQG2E03-00	7/16-20UNF	14	34.4	12.5	12.6	5.6	20.5
ø1/4"	KQG2E07-00	1/2-20UNF	17	35.4	14	13.5	13.1	28
ø5/16"	KQG2E09-00	5/8-18UNF	19	39.6	17	16.1	26.1	39.5
ø3/8"	KQG2E11-00	3/4-16UNF	22	40.4	20.5	16.6	41.5	57.3
ø1/2"	KQG2E13-00	7/8-14UNF	26	44.4	23.5	18.5	58.3	83.2

(Note) Value of FEP tubing.

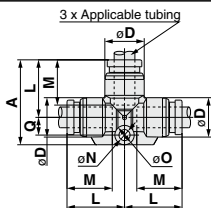


Union Tee: KQG2T



Applicable tubing O.D. (inch)	Model	øD	L	A	Q	M	øN	øO	Note) Effective area (mm ²)	Weight (g)
ø1/8"	KQG2T01-00	8.3	13.6	20.5	4.1	12	3.2	5.6	3.4	7.9
ø5/32"	KQG2T03-00	9.1	14.6	21.8	4.4	12.6	3.2	5.6	6.4	9.5
ø1/4"	KQG2T07-00	11.7	16.7	24.7	5.2	13.5	3.2	5.6	13.4	14.7
ø5/16"	KQG2T09-00	13.7	20.1	31.1	7	16.1	4.2	8	25.6	24.4
ø3/8"	KQG2T11-00	16	21.4	33.4	8	16.6	4.2	8	40	34.7
ø1/2"	KQG2T13-00	19.6	24.9	37.9	9	18.5	4.2	8	57.4	52.3

(Note) Value of FEP tubing.

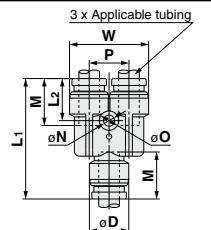


Union "Y": KQG2U



Applicable tubing O.D. (inch)	Model	øD	W	L1	L2	P	M	øN	øO	Note) Effective area (mm ²)	Weight (g)
ø1/8"	KQG2U01-00	8.3	16.4	29	11	8.1	12	3.2	5.6	3.4	9.2
ø5/32"	KQG2U03-00	9.1	18.2	30.4	11.3	9.1	12.6	3.2	5.6	4.2	11.1
ø1/4"	KQG2U07-00	11.7	23.9	34.5	12.1	12.2	13.5	3.2	5.6	13.4	19.6
ø5/16"	KQG2U09-00	13.7	28.3	40.1	14.1	14.6	16.1	4.2	8	25.6	29.7
ø3/8"	KQG2U11-00	16	33.2	42.2	14	17.2	16.6	4.2	8	40	43.1
ø1/2"	KQG2U13-00	19.6	40.2	47.3	15.8	20.6	18.5	4.2	8	57.4	66.4

(Note) Value of FEP tubing.

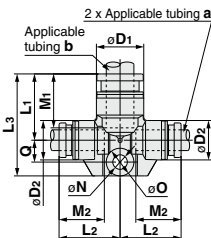


Different Diameter Tee: KQG2T



Applicable tubing O.D. (inch)	Model	øD1	øD2	L1	L2	L3	Q	M1	M2	øN	øO	Note) Effective area (mm ²)	Weight (g)
a b													
ø1/8" ø5/32"	KQG2T01-03	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"	KQG2T03-07	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"	KQG2T07-09	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"	KQG2T09-11	16	13.7	20.6	21	31.7	7.1	16.6	16.1	4.2	8	36	28.9
ø3/8" ø1/2"	KQG2T11-13	19.6	16	23.3	23	35.4	8.1	18.5	16.6	4.2	8	56	41.8

(Note) Value of FEP tubing.

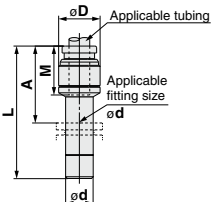


Plug-in Reducer: KQG2R



Applicable tubing O.D. (inch)	Applicable fitting size ød	Model	øD	L	A	M	Note) Effective area (mm ²)	Weight (g)
ø1/8"	ø5/32"	KQG2R01-03	9	32.9	20.3	12	3.4	4.7
ø5/32"	ø1/4"	KQG2R03-07	9	33.7	20.2	12.6	5.6	7.1
ø1/4"	ø5/16"	KQG2R07-09	12	38.4	22.3	13.5	13.1	11.9
ø5/16"	ø3/8"	KQG2R09-11	14	41.6	25	16.1	26.1	16.8
ø3/8"	ø1/2"	KQG2R11-13	17	39.8	21.3	16.6	41.5	23.5

(Note) Value of FEP tubing.



KQG2 Series

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

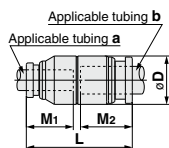
Dimensions

Different Diameter Straight: KQG2H



Applicable tubing O.D. (inch)		Model	øD	L	M1	M2	Note) Effective area (mm ²)	Weight (g)
a	b							
ø1/8"	ø5/32"	KQG2H01-03	9	25.6	12	12.6	3.4	6.5
ø5/32"	ø1/4"	KQG2H03-07	12	27.1	12.6	13.5	5.6	11.3
ø1/4"	ø5/16"	KQG2H07-09	14	30.6	13.5	16.1	13.1	16.1
ø5/16"	ø3/8"	KQG2H09-11	16	33.7	16.1	16.6	26.1	22.8
ø3/8"	ø1/2"	KQG2H11-13	20	36.1	16.6	18.5	41.5	37.1

Note) Value of FEP tubing.

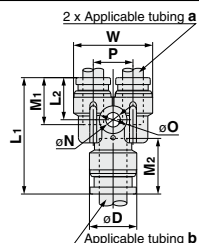


Different Diameter Union "Y": KQG2U



Applicable tubing O.D. (inch)		Model	øD	L1	L2	P	W	M1	M2	øN	øO	Note) Effective area (mm ²)	Weight (g)
a	b												
ø1/8"	ø5/32"	KQG2U01-03	9.1	27	10.8	8.1	16.4	12	12.6	3.2	5.6	3.2	8.5
ø5/32"	ø1/4"	KQG2U03-07	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"	KQG2U07-09	13.7	33.8	12	12.2	23.9	13.5	16.1	4.2	8	13.4	20
ø5/16"	ø3/8"	KQG2U09-11	16	38.3	13.8	14.6	28.3	16.1	16.6	4.2	8	25.6	31
ø3/8"	ø1/2"	KQG2U11-13	19.6	40.5	13.7	17.2	33.2	16.6	18.5	4.2	8	40	45

Note) Value of FEP tubing.

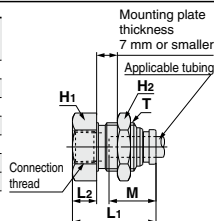


Bulkhead Connector: KQG2E



Applicable tubing O.D. (inch)	Connection thread NPT	Model	T (UNF)	Width across flat		L1	L2	Mounting hole	M	Note) Effective area (mm ²)	Weight (g)
				H1	H2						
ø1/8"	1/4	KQG2E01-N02	7/16-20UNF	17	14	32.8	15.3	12.5	12	3.4	30.6
ø5/32"	1/4	KQG2E03-N02	7/16-20UNF	17	14	32.6	15.3	12.5	12.6	5.6	30.1
ø1/4"	1/4	KQG2E07-N02	1/2-20UNF	17	17	32.7	14.8	14	13.5	13.1	32.6
ø5/16"	3/8	KQG2E09-N03	5/8-18UNF	19	19	35	15.1	17	16.1	26.1	38.2
ø3/8"	3/8	KQG2E11-N03	3/4-18UNF	21	22	33.8	13.3	20.5	16.6	41.5	51.7
ø1/2"	3/8	KQG2E13-N03	7/8-14UNF	24	26	34.6	12.3	23.5	18.5	58.3	73.2
	1/2	KQG2E13-N04				41.4	19.1				

Note) Value of FEP tubing.

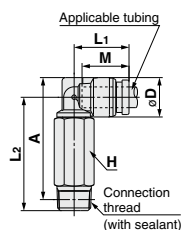


Extended Male Elbow: KQG2W



Applicable tubing O.D. (inch)	Connection thread NPT	Model	H (Width across flat)	øD	L1	L2	A*	M	Note) Effective area (mm²)	Weight (g)
ø1/8"	1/8	KQG2W01-N01S	12	8.3	13.6	31.6	32.5	12	2.8	21.5
	1/4	KQG2W01-N02S	14			35.4	35.1			34.4
ø5/32"	1/8	KQG2W03-N01S	12	9.1	14.4	32	33.3	12.6	4	22.4
	1/4	KQG2W03-N02S	14			35.8	35.9			35.2
ø1/4"	1/8	KQG2W07-N01S	12	11.7	15.9	33.3	35.9	13.5	10.9	24.1
	1/4	KQG2W07-N02S	14			37.1	38.5			37
	3/8	KQG2W07-N03S	19			38.9	40			70.9
	1/8	KQG2W09-N01S	12			34.7	38.3			26.9
ø5/16"	1/4	KQG2W09-N02S	14	13.7	19.1	40.2	42.6	16.1	20.5	38.7
	3/8	KQG2W09-N03S	19			42	44.1			74.7
	1/4	KQG2W11-N02S	14			47.2	50.8			41.8
ø3/8"	3/8	KQG2W11-N03S	19	16	21	45.4	48.7	16.6	33.5	75.2
	1/2	KQG2W11-N04S	22			49.2	50.8			116.5
	1/4	KQG2W13-N02S	14			22.7	49			18.5
ø1/2"	3/8	KQG2W13-N03S	19	19.6	23.7	50.7	55.8	47.7	75.3	
	1/2	KQG2W13-N04S	22			54.5	57.9		118.3	

* Reference dimensions after installation of NPT thread
Note) Value of FEP tubing.



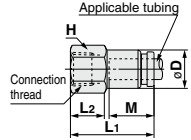
Dimensions

Female Connector: KQG2F



Applicable tubing O.D. (inch)	Connection thread NPT	Model	H (Width across flat)	Note 1) ϕD	L ₁	L ₂	M	Note 2) Effective area (mm ²)	Weight (g)
$\phi 1/8"$	1/8	KQG2F01-N01	12	8	24.1	10.4	12	3.4	9.4
	1/4	KQG2F01-N02	17		29.1	13.7			22.5
$\phi 5/32"$	1/8	KQG2F03-N01	12	8.7	24.6	10.5	12.6	5.6	9.9
	1/4	KQG2F03-N02	17		29.6	13.8			23
$\phi 1/4"$	1/8	KQG2F07-N01	12	11.2	25	10.7	13.5	13.1	11.1
	3/8	KQG2F07-N03	19		31.2	14.6			25.5
$\phi 5/16"$	1/8	KQG2F09-N01	14	13.4	27.2	10.3	16.1	26.1	17.3
	1/4	KQG2F09-N02	17		32.2	14.3			26.9
$\phi 3/8"$	3/8	KQG2F09-N03	19	16	33.4	14.8	16.6	41.5	28.1
	1/4	KQG2F11-N02	17		32.1	14.4			29.7
$\phi 1/2"$	3/8	KQG2F11-N03	19	19.3	33.3	14.9	18.5	58.3	30.9
	1/2	KQG2F11-N04	24		38.6	18.6			49.1
$\phi 1/2"$	3/8	KQG2F13-N03	21	19.3	34.6	14.7	18.5	58.3	43.3
	1/2	KQG2F13-N04	24		39.9	18.8			53.5

Note 1) For the $\phi 3/8"$, this dimension refers to the O.D. of the release button.
Note 2) Value of FEP tubing.



Plug: KQG2P



Applicable fitting size ϕd	Model	ϕD	L	A	Weight (g)
$\phi 1/8"$	KQG2P-01	5	28.9	16.9	2.7
$\phi 5/32"$	KQG2P-03	6	29.6	17	4.1
$\phi 1/4"$	KQG2P-07	8	30.3	16.8	8.9
$\phi 5/16"$	KQG2P-09	10	33.7	17.6	15.5
$\phi 3/8"$	KQG2P-11	11	34.1	17.5	21
$\phi 1/2"$	KQG2P-13	14	36.4	17.9	38.5

