

# Stainless Steel 316 One-touch Fittings

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

## Series **KQG2**

RoHS



### Applicable Tube

Tube material	FEP, PFA, Nylon, Soft nylon <sup>Note 1)</sup> , Polyurethane, Polyolefin
Tube O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16

### Specifications

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

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

Note 2) Consult with SMC regarding applicable tube separately.

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 tube.

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

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

### Spare Parts

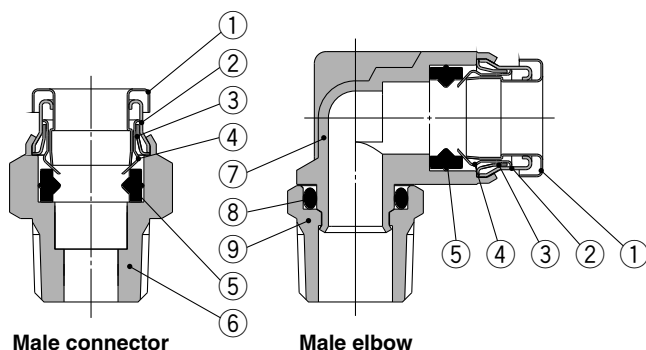
Description	Tube O.D.	Part no.	Material
Gasket	—	<b>M-5G3</b>	Stainless steel 316, Special FKM
Bulkhead nut	ø3.2, ø4	<b>KQG223-P01</b>	Stainless steel 316
	ø6	<b>KQG206-P01</b>	
	ø8	<b>KQG208-P01</b>	
	ø10	<b>KQG210-P01</b>	
	ø12	<b>KQG212-P01</b>	
	ø16	<b>KQG216-P01</b>	

### Cross Reference Table of the Inner Sleeve

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

# Series KQG2

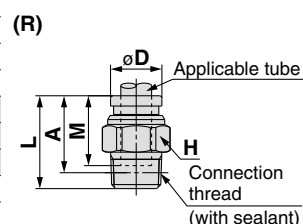
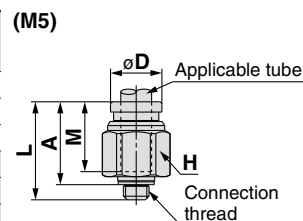
Applicable Tube: Metric Size, Connection Thread: M, R, Rc

## Dimensions

### Male Connector: KQG2H



Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) $\phi D$	L	A*	M	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
$\phi 3.2$	M5 x 0.8	KQG2H23-M5	8	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		16.9	
$\phi 4$	M5 x 0.8	KQG2H04-M5	10	8.7	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		15.8	
$\phi 6$	M5 x 0.8	KQG2H06-M5	12	11.1	19.1	16.1	13.6	4	7.7
	1/8	KQG2H06-01S	12		18.1	15		7	
	1/4	KQG2H06-02S	14		20.8	16.1		13.1	14.5
	3/8	KQG2H06-03S	17		23	17.9		27.3	
$\phi 8$	1/8	KQG2H08-01S	14	13.4	24.5	21.4	16.1	26.1	12.8
	1/4	KQG2H08-02S	14		22.3	17.6		12.9	
	3/8	KQG2H08-03S	17		23.7	18.6		24.7	
$\phi 10$	1/8	KQG2H10-01S	17	16.4	25.5	22.4	17	26.1	18.9
	1/4	KQG2H10-02S	17		27.9	23.2		21.6	
	3/8	KQG2H10-03S	17		23	17.9		41.5	20.6
$\phi 12$	1/2	KQG2H10-04S	22	18.5	28.6	22.2	18.6	58.3	51.1
	1/4	KQG2H12-02S	19		30.5	25.8		27.4	
	3/8	KQG2H12-03S	19		24.7	19.6		20.5	
$\phi 16$	1/2	KQG2H12-04S	22	24.6	28.7	22.3	20.8	81	44.6
	3/8	KQG2H16-03S	24		33.6	28.5		46	
	1/2	KQG2H16-04S	24		29.5	23.1		113	37.4

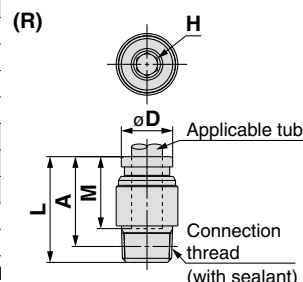
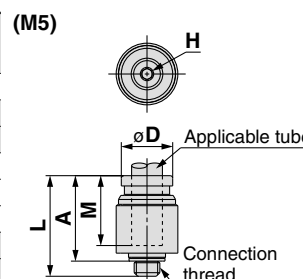


\* Reference dimensions after installation of R thread  
 Note 1)  $\phi D$  is maximum diameter.  
 Note 2) Value of FEP tube.  
 Value of nylon tube for  $\phi 16$  only.

### Hexagon Socket Head Male Connector: KQG2S



Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) $\phi D$	L	A*	M	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
$\phi 3.2$	M5 x 0.8	KQG2S23-M5	2	9	16.5	13.5	12	3	3.8
$\phi 4$	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
$\phi 6$	M5 x 0.8	KQG2S06-M5	2	12	19.6	16.6	13.6	4	7.4
	1/8	KQG2S06-01S	4		20.6	17.5		10	8.7
	1/4	KQG2S06-02S	4		14	20.6		15.9	10.7
$\phi 8$	1/8	KQG2S08-01S	5	14	24.7	21.6	16.1	17.2	12.3
	1/4	KQG2S08-02S	6		22.9	18.2		23.3	12.8
	3/8	KQG2S08-03S	6		17	23.1		18	22.8
$\phi 10$	1/8	KQG2S10-01S	5	17	25.6	22.5	17	17.2	17.7
	1/4	KQG2S10-02S	8		27.5	22.8		19.1	
	3/8	KQG2S10-03S	8		24	18.9		39	20.9
	1/2	KQG2S10-04S	22		24	17.6		37.2	
$\phi 12$	1/4	KQG2S12-02S	8	19	30.6	25.9	18.6	46	24.8
	3/8	KQG2S12-03S	10		24.9	19.8		19.3	
	1/2	KQG2S12-04S	10		22	24.9		18.5	60
$\phi 16$	3/8	KQG2S16-03S	10	24.6	33.2	28.1	20.8	81	41.6
	1/2	KQG2S16-04S	12		29.4	23		113	38.4

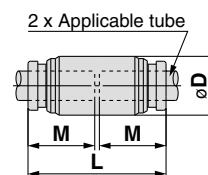


\* Reference dimensions after installation of R thread  
 Note 1)  $\phi D$  is maximum diameter.  
 Note 2) Value of FEP tube.  
 Value of nylon tube for  $\phi 16$  only.

### Straight Union: KQG2H



Applicable tube O.D. (mm)	Model	$\phi D$ Note 1)	L	M	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
$\phi 3.2$	KQG2H23-00	9	25	12	3.4	6.5
$\phi 4$	KQG2H04-00	9	26.2	12.6	5.6	6.5
$\phi 6$	KQG2H06-00	12	28.2	13.6	13.1	11.5
$\phi 8$	KQG2H08-00	14	33.2	16.1	26.1	16.6
$\phi 10$	KQG2H10-00	17	35	17	41.5	26
$\phi 12$	KQG2H12-00	19	38.2	18.6	58.3	32.2
$\phi 16$	KQG2H16-00	24.6	42.6	20.8	113	53.7



Note 1)  $\phi D$  is maximum diameter.  
 Note 2) Value of FEP tube.  
 Value of nylon tube for  $\phi 16$  only.

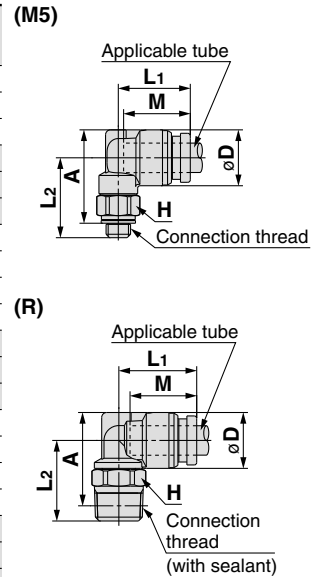
## Dimensions

### Male Elbow: KQG2L

Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) $\phi D$	L1	L2	A*	M	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
$\phi 3.2$	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		3	7.6
	1/4	KQG2L23-02S	14		18.7	18.1	16			
$\phi 4$	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		4.2	8.5
	1/4	KQG2L04-02S	14		19.1	18.9	16.8			
$\phi 6$	M5 x 0.8	KQG2L06-M5	8	11.4	14.7	16.3	19	13.6	3.5	8.8
	1/8	KQG2L06-01S	10		16.4	10.1				
	1/4	KQG2L06-02S	14		15.9	20.2	21.2		11.4	18.4
	3/8	KQG2L06-03S	17		21.6	22.2	29.9			
$\phi 8$	1/8	KQG2L08-01S	12	13.7	18.6	18.3	22	16.1	21.6	14.6
	1/4	KQG2L08-02S	14		19.1	21.5	23.6		20.3	
	3/8	KQG2L08-03S	17		22.9	24.6	31.6			
$\phi 10$	1/8	KQG2L10-01S	12	16.6	20	19.7	24.9	17	21.6	20.2
	1/4	KQG2L10-02S	14		21	22.9	26.5		23.3	
	3/8	KQG2L10-03S	17		24.3	27.5	35.2		33.6	
$\phi 12$	1/2	KQG2L10-04S	22	18.7	28.5	30.4	18.6	50.2	60.1	
	1/4	KQG2L12-02S	14		22.6	24			28.6	27.1
	3/8	KQG2L12-03S	17		23.6	25.3			29.5	33.7
$\phi 16$	1/2	KQG2L12-04S	22	24.6	29.5	32.4	20.8	71	58.7	
	3/8	KQG2L16-03S	19		26.3	28			34.5	46.3
	1/2	KQG2L16-04S	22		27.3	31.8			37	100

\* Reference dimensions after installation of R thread  
Note 1)  $\phi D$  is maximum diameter.

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

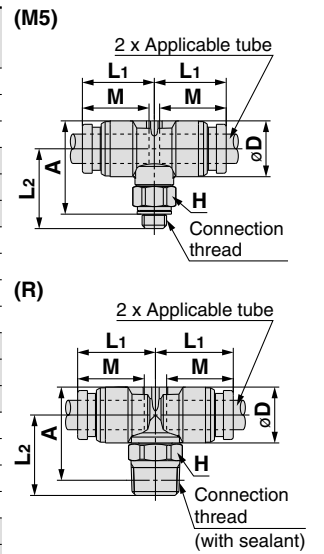


### Male Branch Tee: KQG2T

Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) $\phi D$	L1	L2	A*	M	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
$\phi 3.2$	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		3.4	9.4
	1/4	KQG2T23-02S	14		18.7	18.1	17.7			
$\phi 4$	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		6	10.4
	1/4	KQG2T04-02S	14		19.1	18.9	18.8			
$\phi 6$	M5 x 0.8	KQG2T06-M5	8	11.4	14.7	16.3	19	13.6	4.5	11.9
	1/8	KQG2T06-01S	10		16.4	13.4				
	1/4	KQG2T06-02S	14		15.9	20.2	21.2		13.9	21.8
	3/8	KQG2T06-03S	17		21.6	22.2	33.3			
$\phi 8$	1/8	KQG2T08-01S	12	13.7	18.6	18.3	22	16.1	26.3	20
	1/4	KQG2T08-02S	14		19.1	21.5	23.6		25.5	
	3/8	KQG2T08-03S	17		22.9	24.6	36.8			
$\phi 10$	1/8	KQG2T10-01S	12	16.6	20	19.7	24.9	17	40.8	28.4
	1/4	KQG2T10-02S	14		21	22.9	26.5		31.1	
	3/8	KQG2T10-03S	17		24.3	27.5	41.4			
$\phi 12$	1/2	KQG2T10-04S	22	18.7	28.5	30.4	18.6	57.2	68	
	1/4	KQG2T12-02S	14		22.6	24			28.6	37.8
	3/8	KQG2T12-03S	17		23.6	25.3			29.5	39.3
$\phi 16$	1/2	KQG2T12-04S	22	24.6	29.5	32.4	20.8	71	68.8	
	3/8	KQG2T16-03S	19		26.3	28			34.5	63.7
	1/2	KQG2T16-04S	22		27.3	31.8			37	100

\* Reference dimensions after installation of R thread  
Note 1)  $\phi D$  is maximum diameter.

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

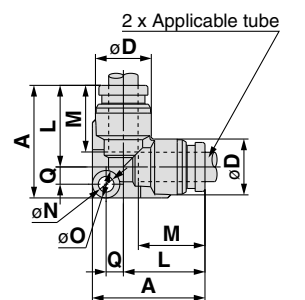


### Union Elbow: KQG2L

Applicable tube O.D. (mm)	Model	Note 1) $\phi D$	L	A	Q	M	$\phi N$	$\phi O$	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
$\phi 3.2$	KQG2L23-00	8.3	13.6	19.3	2.9	12	3.2	5.6	3	6.3
$\phi 4$	KQG2L04-00	9.1	14.6	20.5	3.1	12.6	3.2	5.6	4.2	7.4
$\phi 6$	KQG2L06-00	11.4	16.6	23	3.6	13.6	3.2	5.6	11.4	11
$\phi 8$	KQG2L08-00	13.7	20.1	29.1	5	16.1	4.2	8	21.6	20.2
$\phi 10$	KQG2L10-00	16.6	22	31.7	5.7	17	4.2	8	35.2	29.6
$\phi 12$	KQG2L12-00	18.7	24.6	35	6.4	18.6	4.2	8	50.2	37.1
$\phi 16$	KQG2L16-00	24.6	28.8	40.5	7.7	20.8	4.2	8	100	59.7

Note 1)  $\phi D$  is maximum diameter.

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



# Series KQG2

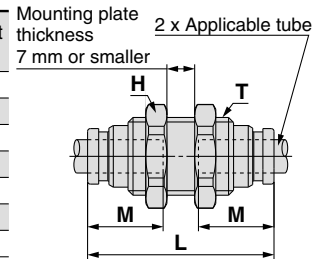
Applicable Tube: Metric Size, Connection Thread: M, R, Rc

## Dimensions

### Bulkhead Union: KQG2E



Applicable tube O.D. (mm)	Model	T (M)	H (Width across flat)	L	Mounting hole	M	Note 2) Effective area (mm <sup>2</sup> )	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

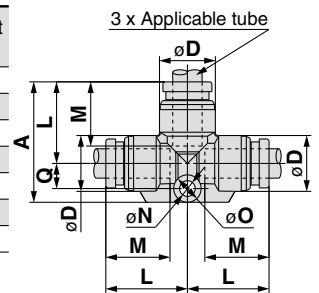


Note) Value of FEP tube.  
Value of nylon tube for ø16 only.

### Union Tee: KQG2T



Applicable tube O.D. (mm)	Model	Note 1) øD	L	A	Q	M	øN	øO	Note 2) Effective area (mm <sup>2</sup> )	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	KQG2T16-00	24.6	28.8	43.4	10.6	20.8	4.2	8	100	75.5

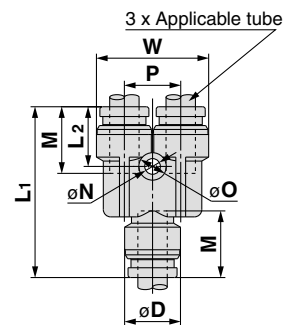


Note 1) øD is maximum diameter.  
Note 2) Value of FEP tube.  
Value of nylon tube for ø16 only.

### Union "Y": KQG2U



Applicable tube O.D. (mm)	Model	Note 1) øD	W	L <sub>1</sub>	L <sub>2</sub>	P	M	øN	øO	Note 2) Effective area (mm <sup>2</sup> )	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

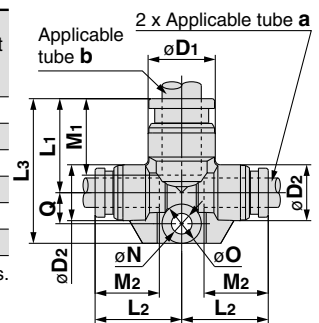


Note 1) øD is maximum diameter.  
Note 2) Value of FEP tube.  
Value of nylon tube for ø16 only.

### Different Diameter Tee: KQG2T



Applicable tube O.D. (mm)		Model	Note 1) øD <sub>1</sub>	Note 1) øD <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	Q	M <sub>1</sub>	M <sub>2</sub>	øN	øO	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
a	b													
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

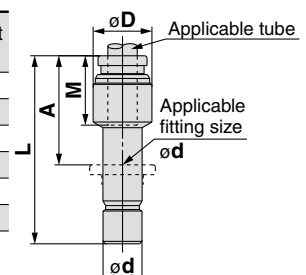


Note 1) øD<sub>1</sub>, øD<sub>2</sub> are maximum diameters.  
Note 2) Value of FEP tube.

### Plug-in Reducer: KQG2R



Applicable tube O.D. (mm)	Applicable fitting size ød	Model	Note 1) øD	L	A	M	Note 2) Effective area (mm <sup>2</sup> )	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



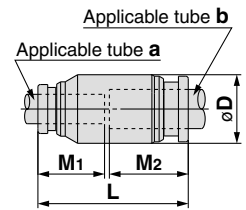
Note 1) øD is maximum diameter.  
Note 2) Value of FEP tube.

## Dimensions

### Different Diameter Straight: KQG2H



Applicable tube O.D. (mm)		Model	Note 1) $\phi D$	L	M1	M2	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
a	b							
$\phi 3.2$	$\phi 4$	KQG2H23-04	9	25.6	12	12.6	3.4	6.5
$\phi 4$	$\phi 6$	KQG2H04-06	12	27.2	12.6	13.6	5.6	11.6
$\phi 6$	$\phi 8$	KQG2H06-08	14	30.7	13.6	16.1	13.1	16.3
$\phi 8$	$\phi 10$	KQG2H08-10	17	34.1	16.1	17	26.1	26
$\phi 10$	$\phi 12$	KQG2H10-12	19	36.6	17	18.6	41.5	33.3
$\phi 12$	$\phi 16$	KQG2H12-16	24.6	40.4	18.6	20.8	58.3	54.7

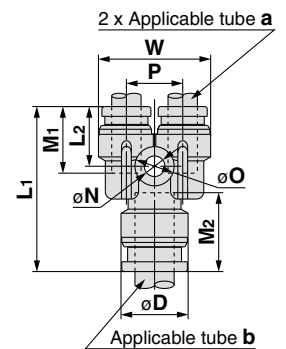


Note 1)  $\phi D$  is maximum diameter.  
Note 2) Value of FEP tube.

### Different Diameter Union "Y": KQG2U



Applicable tube O.D. (mm)		Model	Note 1) $\phi D$	L1	L2	P	W	M1	M2	$\phi N$	$\phi O$	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
a	b												
$\phi 3.2$	$\phi 4$	KQG2U23-04	9.1	27	10.8	8.1	16.4	12	12.6	3.2	5.6	3.2	8.5
$\phi 4$	$\phi 6$	KQG2U04-06	11.4	29.3	11.2	9.1	18.2	12.6	13.6	3.2	5.6	4.2	11.9
$\phi 6$	$\phi 8$	KQG2U06-08	13.7	33.7	12.2	11.5	22.9	13.6	16.1	4.2	8	13.4	19.3
$\phi 8$	$\phi 10$	KQG2U08-10	16.6	38.3	13.8	14.6	28.3	16.1	17	4.2	8	25.6	31.6
$\phi 10$	$\phi 12$	KQG2U10-12	18.7	43	14	17.6	34.2	17	18.6	4.2	8	40	47.6
$\phi 12$	$\phi 16$	KQG2U12-16	24.6	47.4	15.6	19.8	38.5	18.6	20.8	4.2	8	57.4	67.6

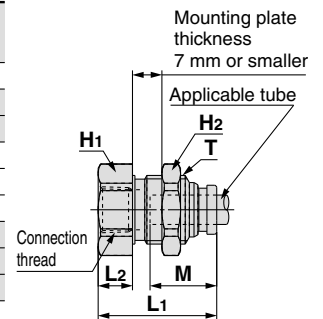


Note 1)  $\phi D$  is maximum diameter.  
Note 2) Value of FEP tube.

### Bulkhead Connector: KQG2E



Applicable tube O.D. (mm)	Connection thread Rc	Model	T (M)	Width across flat		L1	L2	Mounting hole	M	Note) Effective area (mm <sup>2</sup> )	Weight (g)
				H1	H2						
$\phi 3.2$	1/4	KQG2E23-02	M10 x 1	17	12	31	14.8	11	12	3.4	26.1
	1/8	KQG2E04-01	M10 x 1	14	12	25.8	9.7	11	12.6	5.6	16
$\phi 4$	1/4	KQG2E04-02	M10 x 1	17	12	30.9	14.8				25.6
	1/8	KQG2E06-01	M14 x 1	17	17	24.2	7				24.4
	1/4	KQG2E06-02	M14 x 1	17	17	30.9	13.7	15	13.6	13.1	30.9
$\phi 6$	3/8	KQG2E06-03	M14 x 1	19	17	32.1	14.9				32
	1/8	KQG2E08-01	M15 x 1	17	19	26.3	8.1				28
	1/4	KQG2E08-02	M15 x 1	17	19	31.3	13.1	16	16.1	26.1	31.2
$\phi 8$	3/8	KQG2E08-03	M15 x 1	19	19	32.8	14.6				32.7
	1/4	KQG2E10-02	M18 x 1	19	21	31.6	13	19	17	41.5	42.8
	3/8	KQG2E10-03	M18 x 1	19	21	33	14.4				37.5
$\phi 10$	3/8	KQG2E12-03	M20 x 1	21	24	34	14.4	21	18.6	58.3	50.3
	1/2	KQG2E12-04	M20 x 1	24	24	39.3	19.7				60.7
	3/8	KQG2E16-03	M27 x 1	29	30	35.3	13.3	28	20.8	96	107.8
$\phi 12$	1/2	KQG2E16-04	M27 x 1	29	30	40.6	18.6			113	114.6



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

Metric Size KQG2

Inch Size KQG2

Specific Product Precautions KQG2

Metric Size KFG2

Inch Size KFG2

Specific Product Precautions KFG2

Applicable Fluid List

# Series KQG2

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

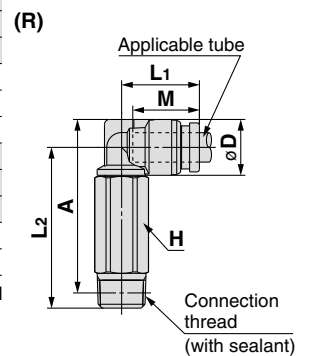
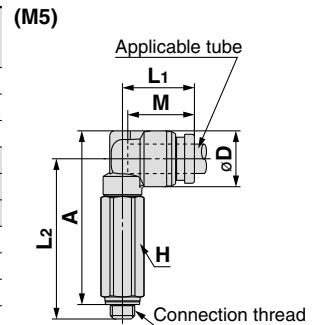
## Dimensions

### Extended Male Elbow: KQG2W



Applicable tube O.D. (mm)	Connection thread R, M	Model	H (Width across flat)	Note 1) $\phi D$	L1	L2	A*	M	Note 2) Effective area (mm <sup>2</sup> )	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	37.6	17.2			
	1/4	KQG2W06-02S	14		15.9	36.6	37.6			35.5
	3/8	KQG2W06-03S	17		38	38.6	57.4			
$\phi 8$	1/8	KQG2W08-01S	12	13.7	18.6	37	40.7	16.1	20.5	28
	1/4	KQG2W08-02S	14		19.1	40.2	42.3			37.7
	3/8	KQG2W08-03S	17		41.6	43.3	60.9			
$\phi 10$	1/4	KQG2W10-02S	14	16.6	21	46.6	50.2	17	33.5	40.7
	3/8	KQG2W10-03S	17		45.9	49.1	61.9			
	1/2	KQG2W10-04S	22		50.1	52	117.3			
$\phi 12$	1/4	KQG2W12-02S	14	18.7	22.6	47.7	52.3	18.6	47.7	44.6
	3/8	KQG2W12-03S	17		23.6	49	53.2			56.3
	1/2	KQG2W12-04S	22		53.2	56.1	112.9			
$\phi 16$	3/8	KQG2W16-03S	19	24.6	26.3	57.6	64.1	20.8	71	86.6
	1/2	KQG2W16-04S	22		27.3	61.4	66.6			100

\* Reference dimensions after installation of R thread  
 Note 1)  $\phi D$  is maximum diameter.  
 Note 2) Value of FEP tube.  
 Value of nylon tube for  $\phi 16$  only.

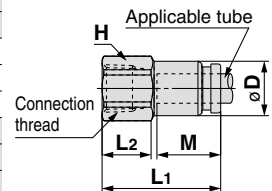


### Female Connector: KQG2F



Applicable tube O.D. (mm)	Connection thread Rc	Model	H (Width across flat)	Note 1) $\phi D$	L1	L2	M	Note 2) Effective area (mm <sup>2</sup> )	Weight (g)
$\phi 3.2$	1/8	KQG2F23-01	12	8	23.3	9.8	12	3.4	8.9
	1/8	KQG2F04-01	12	8.7	23.7	9.8	12.6	5.6	9.2
$\phi 4$	1/4	KQG2F04-02	17		28.7	13.2			21.6
	$\phi 6$	1/8	KQG2F06-01	12	11.1	24.2	10	13.6	13.1
1/4		KQG2F06-02	17	29.2		13.4	24.5		
3/8		KQG2F06-03	19	30.6		14.2	24.5		
$\phi 8$	1/8	KQG2F08-01	14	13.4	26.3	9.6	16.1	26.1	16.3
	1/4	KQG2F08-02	17		31.3	13.7			25.5
	3/8	KQG2F08-03	19		32.7	14.4			27
$\phi 10$	1/4	KQG2F10-02	17	16.4	31.6	13.9	17	41.5	28.8
	3/8	KQG2F10-03	19		33	14.7			30.4
$\phi 12$	1/4	KQG2F12-02	19	18.5	32.6	13.3	18.6	58.3	37.5
	3/8	KQG2F12-03	19		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			113

Note 1)  $\phi D$  is maximum diameter.  
 Note 2) Value of FEP tube.  
 Value of nylon tube for  $\phi 16$  only.



### Plug: KQG2P



Applicable fitting size $\phi d$	Model	$\phi D$	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

