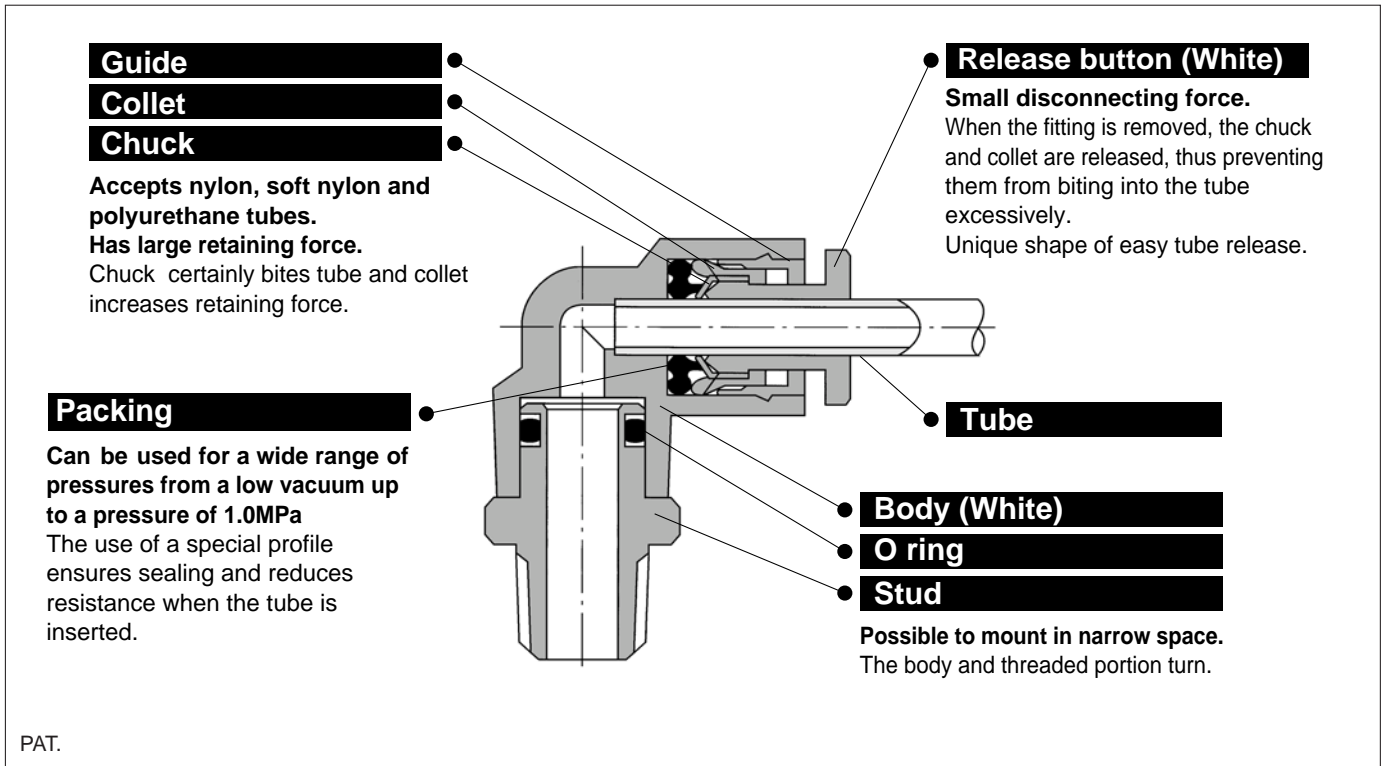


# Stainless One-touch Fittings

## Series KG



Stainless specification applicable to corrosive environments

SUS 303 stainless steel adopted for metal elements

Suitable for use in CRT production lines where contact with copper must be avoided, food processing machines where water or salt water splashes and clean room where discolouration of copper material and corrosion must be avoided.



### Applicable Tubing

Tube material	Nylon, Soft nylon, Polyurethane
Tube O.D.	ø4, ø6, ø8, ø10, ø12, ø16

### Specifications

Operating fluid	Air, Water <sup>(1)</sup>	
Max. operating pressure	1.0MPa	
Max. operating vacuum pressure	-100kPa	
Proof pressure	3.0MPa	
Ambient and fluid temperature	-5 to 60°C (Water: 0 to 40°C)(No freezing)	
Thread	Thread portion	JIS B 0203 (Taper pipe thread)
	Nut	JIS B 0211 Class 2 (Metric fine thread)
Sealant (Thread portion)	With/Without sealant <sup>(2)</sup>	



Note1) Applicable for general industry water. Consult us if using for other kinds of fluid. Surge pressure must be under the max. operating pressure.

Note2) Suffix "S" to part number if sealant is desired.

### Component Materials

Body	Stainless steel (SUS303), PBT
Stud (Thread)	Stainless steel (SUS303)
Chuck	Stainless steel (SUS304)
Guide	SUS304, Stainless steel (SUS303), POM
Collet, Release button	POM
Packing, O ring	NBR

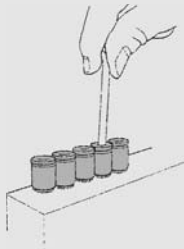
## Model

### Hexagon socket head male connector

**KGS** P.2.3-11



Internal hex. allows thread connection by using an hex. key wrench, for confined spaces.

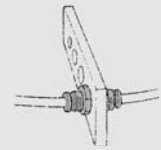


### Bulkhead union

**KGE** P.2.3-19



Used for junction connection of two tubes for installation of a panel.

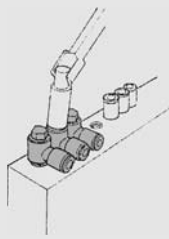


### Universal male elbow

**KGV** P.2.3-13



Universal male elbow allows thread connection by using a socket wrench for confined spaces.

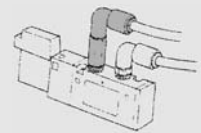


### Extended male elbow

**KGW** P.2.3-15



For when the elbow extends over a standard elbow for easier of connection/disconnection of tubing.

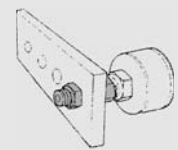


### Bulkhead connector

**KGE** P.2.3-19



Used for transit connection of a tube and a male screw for installation of a panel.



### Male connector

**KGH** P.2.3-11



Used to pipe in the same direction from female threaded portion. Most common style.

### Male elbow

**KGL** P.2.3-12



Used to pipe in right angle to female threaded portion. Most common style.

### Branch tee

**KGT** P.2.3-15



Used to branch line from female thread in both 90° directions.

### Female connector

**KGK** P.2.3-12



Used to pipe from the male threaded portion such as a pressure gage.

### Union elbow

**KGL** P.2.3-14



Used to connect tubes at right angles.

### Union tee

**KGT** P.2.3-15



Used to connect tubes in both 90° directions.

### Straight union

**KGH** P.2.3-12



Used to connect tubes in the same direction.

### Plug-in elbow

**KGL** P.2.3-14



Used to change by 90° in a tube fetching direction from One-touch fittings.

### Different dia. tee

**KGT** P.2.3-16



Used to connect tubes with size down in both 90° directions.

### Different dia. straight

**KGH** P.2.3-12



Used to connect different size tubes.

### Male delta

**KGD** P.2.3-16



Used for two branch piping at right angles from female thread.

### Male run tee

**KGY** P.2.3-16



Used for a branch line in the same direction from female thread and in 90° directions.

### Male branch connector

**KGLU** P.2.3-13



Used for connection at right angles from the female thread.

### Delta

**KGD** P.2.3-17



Used for three branch connections of tubes at right angles.

### Different dia. double union "Y"

**KGUD** P.2.3-18



Used for four branch connections in the same direction, reducing the size of the tubes.

### Branch union elbow

**KGLU** P.2.3-14



Used for connection of tubes at right angles.

### Double branch

**KGUD** P.2.3-17



Used for four branch piping in the same direction from the female thread.

### Union "Y"

**KGU** P.2.3-18



Used to connect tubes in the same direction.

**K** □

**M** □

**H** □

**D** □

**MS**

**T** □

**LQ**

Clean Room

# Series KG

## Model

### Different dia. union "Y"

KGU P.2.3-18



Used to connect tubes with size down in the same direction

### Plug-in reducer

KGR P.2.3-18



Used to change size of One-touch fittings.

### Tube cap

KGC P.2.3-19



Used to plug the unused tube.

### Branch "Y"

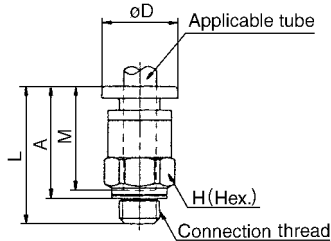
KGU P.2.3-17



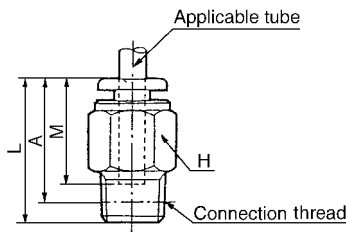
Used to branch line in the same direction from female thread.

## Male connector: KGH

<M5>



<R(PT)>



Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	øD <sup>(1)</sup>	L	A*	M	Effective area <sup>(2)</sup> (mm <sup>2</sup> )		Weight (g)
								Nylon	Urethane	
4	M5	KGH04-M5	8	8	17	13.9	12.7	4	4	2.4
	1/8	KGH04-01	10	—	22	18	16	5.6	4	9
	1/4	KGH04-02	14	—	19.5	13.5	16	5.6	4	16
6	M5	KGH06-M5	10	10	17.8	14.7	13.5	4	4	3.4
	1/8	KGH06-01	12	—	22.5	18.5	17	13.1	10.4	16
	1/4	KGH06-02	14	—	23	17	17	13.1	10.4	14
	3/8	KGH06-03	17	—	22	15.5	17	13.1	10.4	27
8	1/8	KGH08-01	14	—	28	24	18.5	26.1	18.0	21
	1/4	KGH08-02	14	—	26.5	20.5	18.5	26.1	18.0	19
	3/8	KGH08-03	17	—	22	15.5	18.5	26.1	18.0	26
10	1/8	KGH10-01	17	—	30	26	21	41.5	29.5	19
	1/4	KGH10-02	17	—	33.5	27.5	21	41.5	29.5	30
	3/8	KGH10-03	17	—	29	22.5	21	41.5	29.5	30
	1/2	KGH10-04	22	—	27	19	21	41.5	29.5	53
12	1/4	KGH12-02	19	—	34.5	28.5	22	58.3	46.1	42
	3/8	KGH12-03	19	—	30	23.5	22	58.3	46.1	34
	1/2	KGH12-04	22	—	30	22	22	58.3	46.1	51
16	3/8	KGH16-03	24	—	38.5	32	24	81	(81)	61
	1/2	KGH16-04	24	—	34.5	26.5	24	113	(96)	47

\* Reference dimensions after R(PT) thread installation.

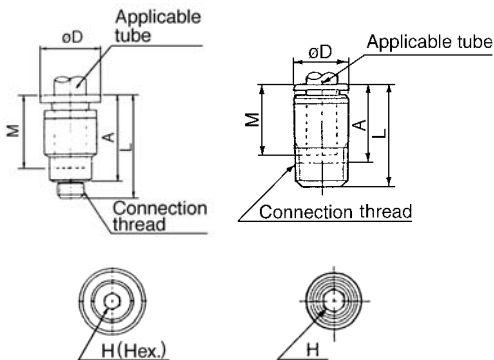
Note1) øD: max. diameter

Note2) ( ): Values for soft nylon.

## Hexagon socket head male connector: KGS

<M5>

<R(PT)>

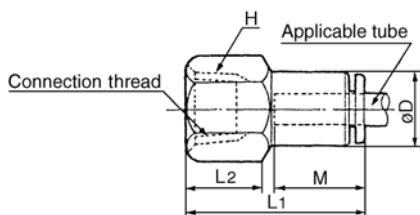


Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	øD <sup>(1)</sup>	L	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)
								Nylon	Urethane	
4	M5	KGS04-M5	2.5	8	18.7	15.6	12.7	4	4	2.6
	1/8	KGS04-01	3	9.8	23	19	16	4.1	3.6	8
6	M5	KGS06-M5	2.5	10	19.5	16.4	13.5	4	4	3.2
	1/8	KGS06-01	4	11.8	24	20	17	10.0	9.9	9
	1/4	KGS06-02	4	13.8	24	20	17	10.7	10.0	15
8	1/8	KGS08-01	5	14	28	24	18.5	17.2	—	12
	1/4	KGS08-02	6	14	25.5	19.5	18.5	23.3	16.2	11
	3/8	KGS08-03	6	17	27.5	21	18.5	23.3	16.2	24
10	1/8	KGS10-01	5	17	30	26	21	17.2	10.0	18
	1/4	KGS10-02	8	17	27.5	21.5	21	39.0	26.6	12
	3/8	KGS10-03	8	17	27.5	21	21	39.0	26.6	19
	1/2	KGS10-04	8	22	28	20	21	39.0	26.6	35
12	1/4	KGS12-02	8	19	33.5	27.5	22	46.0	—	23
	3/8	KGS12-03	10	19	29	22.5	22	60.0	44.5	18
	1/2	KGS12-04	10	22	28	20	22	60.0	44.5	30

\* Reference dimensions after R(PT) thread installation.

Note1) øD: max. diameter

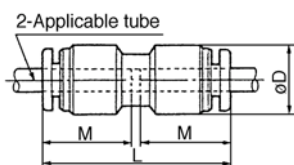
## Female connector: KGF



Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	øD <sup>(1)</sup>	L1	L2	M	Effective area (mm <sup>2</sup> )		Weight (g)
								Nylon	Urethane	
4	1/8	<b>KGF04-01</b>	14	10	27	11	16	5.6	4	15
	1/4	<b>KGF04-02</b>	17		31	14				23
6	1/8	<b>KGF06-01</b>	14	12	27.5	11	17	13.1	10.4	15
	1/4	<b>KGF06-02</b>	17		31	13				22
	3/8	<b>KGF06-03</b>	19		33.5	15				25
8	1/8	<b>KGF08-01</b>	14	14	29	11	18.5	26.1	18.0	17
	1/4	<b>KGF08-02</b>	17		32.5	13				24
	3/8	<b>KGF08-03</b>	19		33.5	14				24
10	1/4	<b>KGF10-02</b>	17	17	34.5	14	21	41.5	29.5	27
	3/8	<b>KGF10-03</b>	19		36.5	15				30
12	1/4	<b>KGF12-02</b>	19	19	35	14	22	58.3	46.1	36
	3/8	<b>KGF12-03</b>			37					31
	1/2	<b>KGF12-04</b>			41					18

\* Reference dimensions after R(PT) thread installation.  
Note1) øD: max. diameter

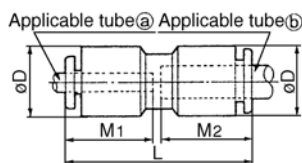
## Straight union: KGH



Tube O.D. (mm)	Part No.	øD <sup>(1)</sup>	L	M	Effective area (mm <sup>2</sup> )		Weight (g)
					Nylon	Urethane	
4	<b>KGH04-00</b>	10.4	32.5	16	5.6	4	3
6	<b>KGH06-00</b>	12.8	34.5	17	13.1	10.4	4
8	<b>KGH08-00</b>	15.2	38.5	18.5	26.1	18.0	6
10	<b>KGH10-00</b>	18.5	42.5	21	41.5	29.5	11
12	<b>KGH12-00</b>	20.9	44.5	22	58.3	46.1	14

Note1) øD: max. diameter

## Different dia. straight: KGH

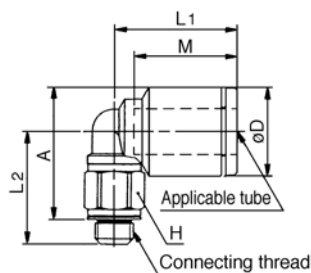


Tube O.D. (mm)		Part No.	øD <sup>(1)</sup>	L	M1	M2	Effective area (mm <sup>2</sup> )		Weight (g)
a	b						Nylon	Urethane	
4	6	<b>KGH04-06</b>	12.8	34.5	16	17	5.6	4	5
6	8	<b>KGH06-08</b>	15.2	38.5	17	18.5	13.1	10.4	6
8	10	<b>KGH08-10</b>	18.5	42	18.5	21	26.1	18.0	11
10	12	<b>KGH10-12</b>	20.9	44.5	21	22	41.5	29.5	14

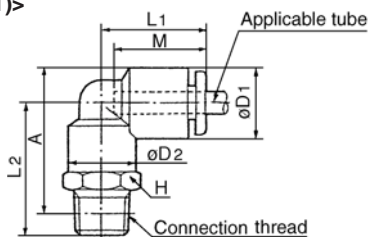
Note1) øD: max. diameter

## Male elbow: KGL

<M5>



<R(PT)>

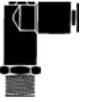


Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	D1 <sup>(1)</sup>	D2	L1	L2	A*	M	Effective area <sup>(2)</sup> (mm <sup>2</sup> )		Weight (g)
										Nylon	Urethane	
4	<b>M5</b>	<b>KGL04-M5</b>	7	9.3	—	15.6	13.7	15.3	12.7	3.5	3.5	2.7
	1/8	<b>KGL04-01</b>	10	10.4	10	18	22	23	16	4.2	4.2	10
	1/4	<b>KGL04-02</b>	14				26	25				19
6	<b>M5</b>	<b>KGL06-M5</b>	7	11.6	—	16.1	14.7	17.4	13.5	3.5	3.5	3.1
	1/8	<b>KGL06-01</b>	10	12.8	10	20	23	25.5	17	11.4	9.0	12
	1/4	<b>KGL06-02</b>	14				27	27.5				10
	3/8	<b>KGL06-03</b>	17				29	29				33
1/8	<b>KGL08-01</b>	12	24.5				28	13				
8	1/4	<b>KGL08-02</b>	14	15.2	12	23	28.5	30	18.5	21.6	14.9	21
	3/8	<b>KGL08-03</b>	17				30.5	31.5				35
	1/8	<b>KGL10-01</b>	17				27	32				25
10	1/4	<b>KGL10-02</b>	17	18.5	17	26.5	30	33	21	35.2	25.0	26
	3/8	<b>KGL10-03</b>					32	34.5				36
	1/2	<b>KGL10-04</b>					36	37				63
	1/4	<b>KGL12-02</b>					17	31				35.5
12	3/8	<b>KGL12-03</b>	17	20.9	17	28.5	33	37	22	50.2	39.7	38
	1/2	<b>KGL12-04</b>					37	39.5				65
	3/8	<b>KGL16-03</b>					22	26.5				21
1/2	<b>KGL16-04</b>	41	46	100	(84)	105						

\* Reference dimensions after R(PT) thread installation.  
Note1) ( ): Values for soft nylon.  
Note2) øD1: max. diameter

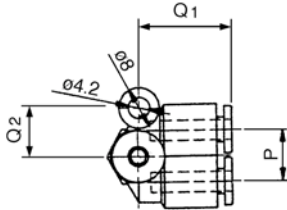
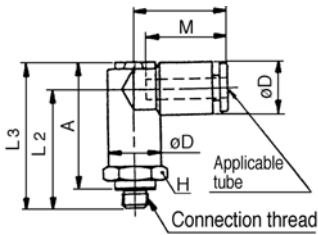


# Series KG



## Male branch connector: KGLU

<M5>

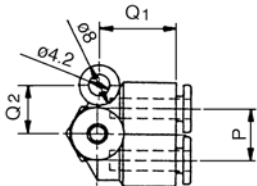
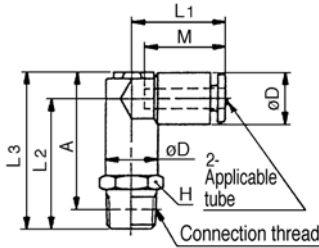


Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	$\phi D^{(1)}$	L1	L2	L3	A*	M	P	Q1	Q2	Effective area (mm <sup>2</sup> )		Weight (g)	
													Nylon	Urethane		
4	M5	KGLU04-M5	11	10.4	18.5	24	29.5	25.5	16	10.4	18.5	10	4.3	4.1	10	
	1/8	KGLU04-01	14			26.5	32	27.5					6.0	4.1	12	
	1/4	KGLU04-02	14			30.5	36	30					21			
6	M5	KGLU06-M5	13	12.8	21	26.5	33	29.5	17	12.8	20.5	12	4.3	4.3	13	
	1/8	KGLU06-01	13			29.5	36	32					15			
	1/4	KGLU06-02	14			33	39.5	33.5					22	13.9	11.0	22
	3/8	KGLU06-03	17			35	41.5	35					35			
8	1/8	KGLU08-01	17	15.2	24	34	41.5	38	18.5	15.2	24.5	14	26.3	18.2	27	
	1/4	KGLU08-02	17			37	44.5	38.5					35			
	3/8	KGLU08-03	17			38	45.5	39					41			
10	1/4	KGLU10-02	19	18.5	27	40	49.5	43.5	21	18.5	28	16	40.8	29.0	42	
	3/8	KGLU10-03	19			41	50.5	44					42			
	1/2	KGLU10-04	22			44.5	54	45.5					64			
12	1/4	KGLU12-02	22	20.9	29	42.5	53	47	22	20.9	30	18	57.2	45.2	57	
	3/8	KGLU12-03	22			43.5	54	47.5					58			
	1/2	KGLU12-04	22			46.5	57	49					65			

\* Reference dimensions after R(PT) thread installation.  
Note1)  $\phi D$ : max. diameter



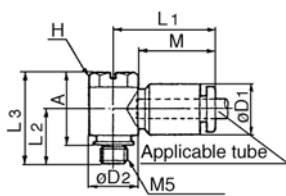
<R(PT)>



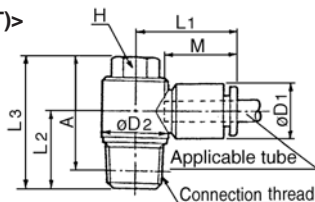
## Universal male elbow: KGV



<M5>



<R(PT)>



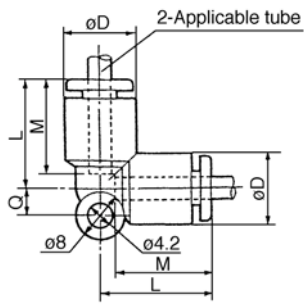
Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	$\phi D1^{(1)}$	$\phi D2$	L1	L2	L3	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)	
											Nylon	Urethane		
4	M5	KGV04-M5	8	10.4	9.8	20.5	11	18.5	15	16	2.9	2.9	6	
	1/8	KGV04-01			13.4	22	14.5	26.5	22.5		14			
6	M5	KGV06-M5	8	12.8	9.8	23.5	12	18.5	15	17	3.8	3.8	7	
	1/8	KGV06-01			13.4	24	14.5	26.5	22.5		15	7.5	7.9	15
	1/4	KGV06-02			10	15.3	23.5	18.5	31		25	26		
8	1/8	KGV08-01	12	15.2	17.6	28.5	15.5	28.5	24.5	18.5	16	11.2	24	
	1/4	KGV08-02			18.5	31.5	25.5	30	30		30	30	30	30
	3/8	KGV08-03			14	20.6	27.5	20.5	36.5		30	20.5	14.3	47
10	1/4	KGV10-02	14	18.5	20.6	31	19.5	35.5	29.5	21	27	20.3	40	
	3/8	KGV10-03					20.5	36.5	30		49			
12	3/8	KGV12-03	17	20.9	25.2	34	22	38.5	32	22	39	30.8	63	
	1/2	KGV12-04					25	41.5	33.5		80			

\* Reference dimensions after R(PT) thread installation.  
Note1)  $\phi D1$ : max. diameter





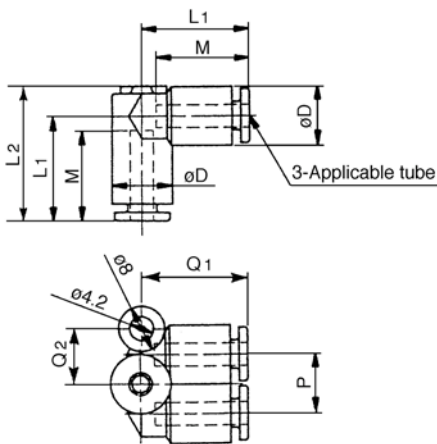
## Union elbow: KGL



Tube O.D. (mm)	Part No.	$\phi D^{(1)}$	L <sub>1</sub>	L <sub>2</sub>	Q <sub>1</sub>	Q <sub>2</sub>	M	P	Effective area (mm <sup>2</sup> )		Weight (g)
									Nylon	Urethane	
4	<b>KGLU04-00</b>	10.4	18.5	24	18.5	10	16	10.4	6.0	4.1	6
6	<b>KGLU06-00</b>	12.8	21	27.5	20.5	12	17	12.8	13.9	11.0	8
8	<b>KGLU08-00</b>	15.2	24	32	24.5	14	18.5	15.2	26.3	18.2	15
10	<b>KGLU10-00</b>	18.5	27	36.5	28	16	21	18.5	40.8	29.0	25
12	<b>KGLU12-00</b>	20.9	29	40	30	18	22	20.9	57.2	45.2	32

Note1)  $\phi D$ : max. diameter

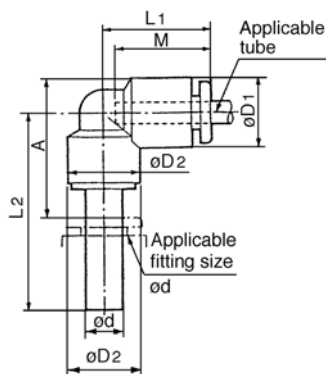
## Branch union elbow: KGLU



Tube O.D. (mm)	Part No.	$\phi D^{(1)}$	L <sub>1</sub>	L <sub>2</sub>	Q <sub>1</sub>	Q <sub>2</sub>	M	P	Effective area (mm <sup>2</sup> )		Weight (g)
									Nylon	Urethane	
4	<b>KGLU04-00</b>	10.4	18.5	24	18.5	10	16	10.4	6.0	4.1	6
6	<b>KGLU06-00</b>	12.8	21	27.5	20.5	12	17	12.8	13.9	11.0	8
8	<b>KGLU08-00</b>	15.2	24	32	24.5	14	18.5	15.2	26.3	18.2	15
10	<b>KGLU10-00</b>	18.5	27	36.5	28	16	21	18.5	40.8	29.0	25
12	<b>KGLU12-00</b>	20.9	29	40	30	18	22	20.9	57.2	45.2	32

Note1)  $\phi D$ : max. diameter

## Plug-in elbow: KGL



Tube O.D. (mm)	Fitting size $\phi d$	Part No.	$\phi D_1^{(1)}$	$\phi D_2$	L <sub>1</sub>	L <sub>2</sub>	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
									Nylon	Urethane	
4	4	<b>KGL04-99</b>	10.4	8	18	25	14.5	16	4.2	4.2	8
6	6	<b>KGL06-99</b>	12.8	10	20	27.5	17	17	11.4	9.0	10
8	8	<b>KGL08-99</b>	15.2	12	22.5	31.5	21	18.5	21.6	14.9	14
10	10	<b>KGL10-99</b>	18.5	14	25.5	35.5	23.5	21	35.2	25.0	25
12	12	<b>KGL12-99</b>	20.9	16	27	37.5	26	22	50.2	39.7	28

Note1)  $\phi D_1$ : max. diameter

**K** □

**M** □

**H** □

**D** □

**MS**

**T** □

**LQ**

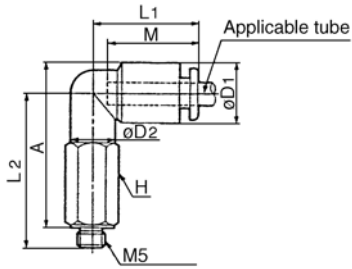
Clean Room

# Series KG

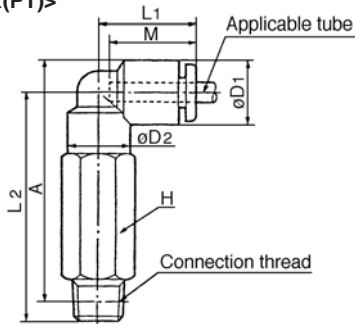


## Extended male elbow: KGW

<M5>



<R(PT)>



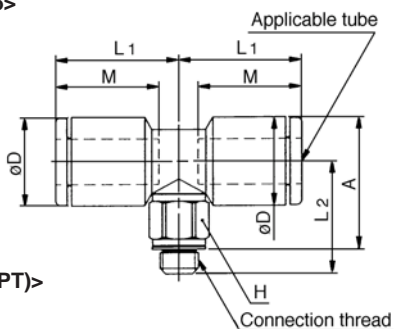
Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	øD <sup>(1)</sup>	øD <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)		
										Nylon	Urethane			
4	M5	KGW04-M5	8	10.4	8	18	30	32	16	3.0	3.0	11		
	1/8	KGW04-01	10							37.5	38.5	23		
	1/4	KGW04-02	14							43.5	42.5	38		
6	M5	KGW06-M5	8	12.8	8	20	30.5	33.5	17	3.0	3.0	11		
	1/8	KGW06-01	10							40	42.5	26		
	1/4	KGW06-02	14							46	46.5	41		
	3/8	KGW06-03	17							48	48	67		
8	1/8	KGW08-01	12	15.2	12	23	43.5	47	18.5	20.5	14.2	30		
	1/4	KGW08-02	14									49.5	51	47
	3/8	KGW08-03	17									51.5	52.5	74
10	1/4	KGW10-02	17	18.5	17	26.5	56.5	59.5	21	33.5	23.8	66		
	3/8	KGW10-03	17									58.5	61	76
	1/2	KGW10-04	22									65	66	145
12	1/4	KGW12-02	17	20.9	17	28.5	57.5	62	22	47.7	37.7	68		
	3/8	KGW12-03	17									59.5	63.5	78
	1/2	KGW12-04	22									66	68.5	147

\* Reference dimensions after R(PT) thread installation.

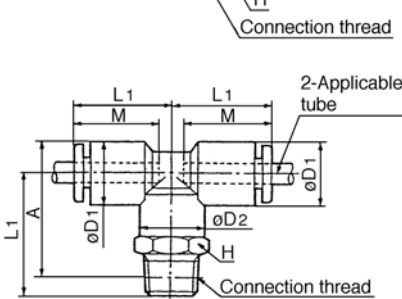
Note1) øD<sub>1</sub>: max. diameter

## Branch tee: KGT

<M5>



<R(PT)>

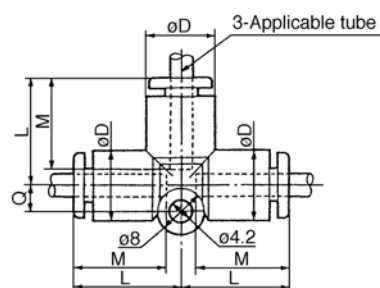


Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	øD <sup>(1)</sup>	øD <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	A*	M	Effective area (mm <sup>2</sup> ) <sup>(2)</sup>		Weight (g)
										Nylon	Urethane	
4	M5	KGT04-M5	7	9.3	—	15.6	13.7	15.3	12.7	4.3	4.3	3.5
	1/8	KGT04-01	10	10.4	10	18	22	23	16	6.0	4.1	13
	1/4	KGT04-02	14				26	25				19
6	M5	KGT06-M5	7	11.6	—	16.1	14.7	17.4	13.5	4.3	4.3	4.2
	1/8	KGT06-01	10	12.8	10	20	23	25.5	17	13.9	11.0	12
	1/4	KGT06-02	14				27	27.5				20
	3/8	KGT06-03	17				29	29				34
1/8	KGT06-01	12	24.5				28	14				
8	1/4	KGT08-02	14	15.2	12	23	28.5	30	18.5	26.3	18.2	22
	3/8	KGT08-03	17				30.5	31.5				36
	1/8	KGT08-01	12				27	32				31
10	1/4	KGT10-02	17	18.5	17	26.5	30	33	21	40.8	29.0	29
	3/8	KGT10-03	17				32	34.5				39
	1/2	KGT10-04	22				36	37				66
12	1/4	KGT12-02	17	20.9	17	28.5	31	35.5	22	57.2	45.2	31
	3/8	KGT12-03	17				33	37				41
	1/2	KGT12-04	22				37	39.5				68
16	3/8	KGT16-03	22	26.5	20.9	34	38	44.5	25	71	(71)	112
	1/2	KGT16-04	22				40.5	46				100

\* Reference dimensions after R(PT) thread installation.

Note1) øD<sub>1</sub>: max. diameter  
Note2) ( ): Values for soft nylon.

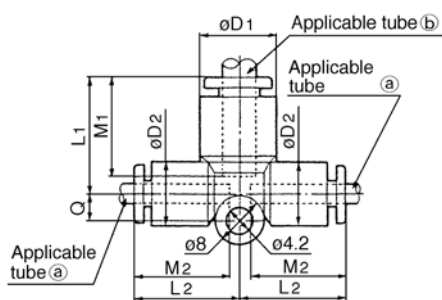
## Union tee: KGT



Tube O.D. (mm)	Part No.	øD <sup>(1)</sup>	L	Q	M	Effective area (mm <sup>2</sup> ) <sup>(2)</sup>		Weight (g)
						Nylon	Urethane	
4	KGT04-00	10.4	18	4.5	16	6.4	4.4	7
6	KGT06-00	12.8	20	5.3	17	13.4	10.6	10
8	KGT08-00	15.2	23	6	18.5	25.6	17.7	15
10	KGT10-00	18.5	26.5	6.8	21	40	28.4	25
12	KGT12-00	20.9	28.5	7.5	22	57.4	45.4	29
16	KGT16-00	26.5	34	10	25	100	(84)	40

Note1) øD: max. diameter  
Note2) ( ): Values for soft nylon.

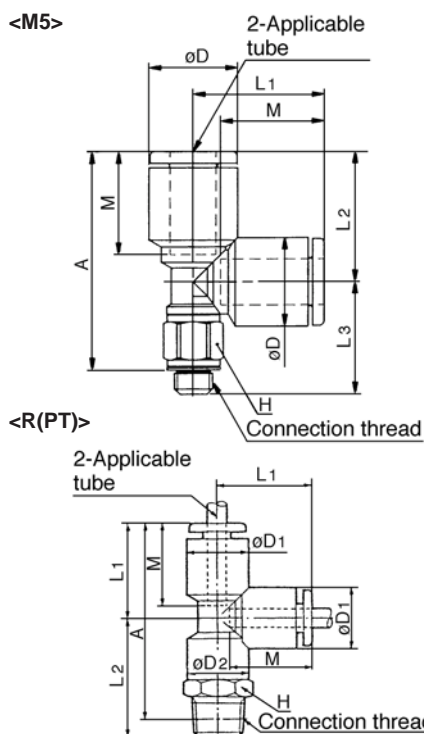
## Different diameter tee: **KGT**



Tube O.D. (mm)		Part No.	$\phi D1^{(1)}$	$\phi D2$	$L1$	$L2$	$Q$	$M1$	$M2$	Effective area (mm <sup>2</sup> )		Weight (g)
a	b									Nylon	Urethane	
4	6	<b>KGT04-06</b>	12.8	10.4	19.5	18	4.5	17	16	7.1	6.5	5
6	8	<b>KGT06-08</b>	15.2	12.8	22.5	20	5.3	18.5	17	16.4	16.4	8
8	10	<b>KGT08-10</b>	18.5	15.2	26.5	23	6	21	18.5	36	27.2	14
10	12	<b>KGT10-12</b>	20.9	18.5	28.5	26.5	6.8	22	21	56	44.5	21

Note1)  $\phi D1$ : max. diameter

## Male run tee: **KGY**

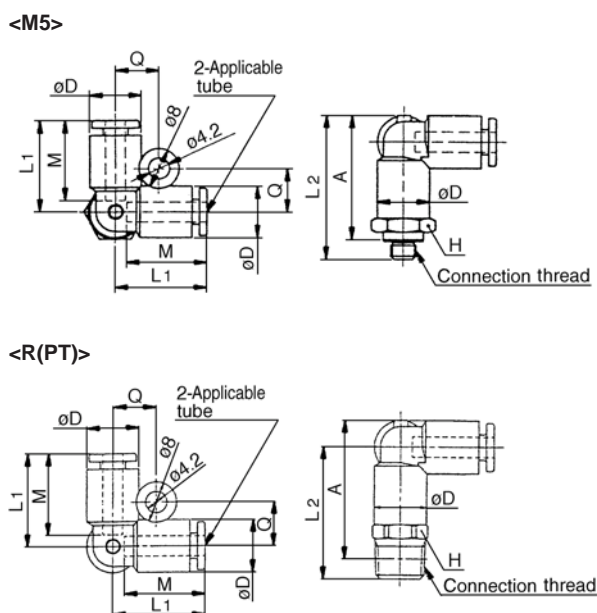


Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	$\phi D1^{(1)}$	$\phi D2$	$L1$	$L2$	$L3$	$A^*$	$M$	Effective area (mm <sup>2</sup> ) <sup>(2)</sup>		Weight (g)
											Nylon	Urethane	
4	M5	<b>KGY04-M5</b>	7	9.3	—	15.6	13.7	14.8	25.4	12.7	4.6	4.6	3.5
	1/8	<b>KGY04-01</b>	10	10.4	10	18	22	—	36	16	6.4	4.4	13
	1/4	<b>KGY04-02</b>	14	—	—	—	26	—	38	—	—	—	19
6	M5	<b>KGY06-M5</b>	7	11.6	—	17.1	14.7	17.1	28.7	13.5	4.6	4.6	4.3
	1/8	<b>KGY06-01</b>	10	12.8	10	20	23	—	39	17	13.4	10.6	12
	1/4	<b>KGY06-02</b>	14	—	—	—	27	—	41	—	—	—	20
	3/8	<b>KGY06-03</b>	17	—	—	—	29	—	42.5	—	—	—	34
8	1/8	<b>KGY08-01</b>	12	15.2	12	23	24.5	—	43.5	17	13.4	10.6	14
	1/4	<b>KGY08-02</b>	14	—	—	—	28.5	—	45.5	18.5	25.6	17.7	22
	3/8	<b>KGY08-03</b>	17	—	—	—	30.5	—	47	—	—	—	36
10	1/8	<b>KGY10-01</b>	12	18.5	17	26.5	27	—	49.5	—	—	—	31
	1/4	<b>KGY10-02</b>	17	—	—	—	30	—	50.5	21	40.0	28.4	29
	3/8	<b>KGY10-03</b>	17	—	—	—	32	—	52	—	—	—	39
	1/2	<b>KGY10-04</b>	22	—	—	—	36	—	54.5	—	—	—	66
12	1/4	<b>KGY12-02</b>	17	20.9	17	28.5	31	—	53.5	—	—	—	31
	3/8	<b>KGY12-03</b>	17	—	—	—	33	—	55	22	57.4	45.4	41
	1/2	<b>KGY12-04</b>	22	—	—	—	37	—	57.5	—	—	—	68
16	3/8	<b>KGY16-03</b>	22	26.5	20.9	34	38	—	65.5	25	81	(81)	112
	1/2	<b>KGY16-04</b>	22	—	—	—	41	—	67	—	113	(113)	116

\* Reference dimensions after R(PT) thread installation.

Note1)  $\phi D1$ : max. diameter  
Note2) ( ): Values for soft nylon.

## Male delta: **KGD**



Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	$\phi D^{(1)}$	$L1$	$L2$	$A^*$	$M$	$Q$	Effective area (mm <sup>2</sup> )		Weight (g)
										Nylon	Urethane	
4	M5	<b>KGD04-M5</b>	11	10.4	18.5	24	25.5	16	8.7	4.3	4.3	10
	1/8	<b>KGD04-01</b>	10	—	—	26.5	27.5	—	—	6.0	6.0	12
	1/4	<b>KGD04-02</b>	14	—	—	30.5	30	—	—	—	—	21
6	M5	<b>KGD06-M5</b>	13	12.8	20.5	26	28.5	17	9.9	4.3	4.3	12
	1/8	<b>KGD06-01</b>	10	—	—	29	31.5	—	—	13.9	13.9	14
	1/4	<b>KGD06-02</b>	14	—	—	32.5	33	—	—	—	—	21
	3/8	<b>KGD06-03</b>	17	—	—	34.5	34.5	—	—	—	—	34
8	1/8	<b>KGD08-01</b>	12	15.2	23.5	33.5	37	18.5	11.1	26.3	18.2	26
	1/4	<b>KGD08-02</b>	17	—	—	36.5	38	—	—	—	—	35
	3/8	<b>KGD08-03</b>	17	—	—	37.5	38.5	—	—	—	—	39
10	1/4	<b>KGD10-02</b>	19	18.5	26.5	39.5	43	21	12.8	40.8	29.0	40
	3/8	<b>KGD10-03</b>	17	—	—	40.5	43.5	—	—	—	—	62
	1/2	<b>KGD10-04</b>	22	—	—	44	45	—	—	—	—	62
12	1/4	<b>KGD12-02</b>	17	20.9	28.5	42	46.5	22	13.9	57.2	45.2	55
	3/8	<b>KGD12-03</b>	17	—	—	43	47	—	—	—	—	56
	1/2	<b>KGD12-04</b>	22	—	—	46	48.5	—	—	—	—	63

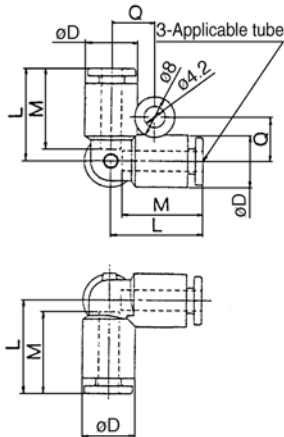
\* Reference dimensions after R(PT) thread installation.

Note1)  $\phi D$ : max. diameter

# Series KG



## Delta: KGD

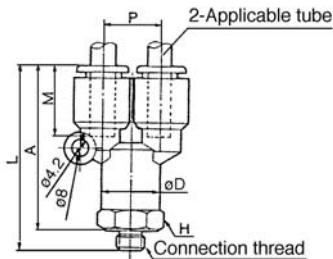


Tube O.D. (mm)	Part No.	øD <sup>(1)</sup>	L	Q	M	Effective area (mm <sup>2</sup> )		Weight (g)
						Nylon	Urethane	
4	<b>KGD04-00</b>	10.4	18.5	8.7	16	6.0	4.1	5
6	<b>KGD06-00</b>	12.8	20.5	9.9	17	13.9	11.0	7
8	<b>KGD08-00</b>	15.2	23.5	11.1	18.5	26.3	18.2	11
10	<b>KGD10-00</b>	18.5	26.5	12.8	21	40.8	29.0	19
12	<b>KGD12-00</b>	20.9	28.5	13.9	22	57.2	45.2	24

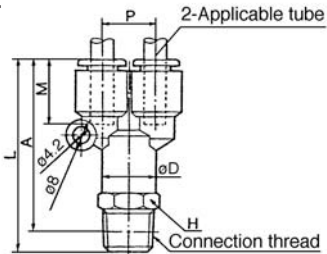
Note1) øD: max. diameter

## Branch "Y": KGU

<M5>



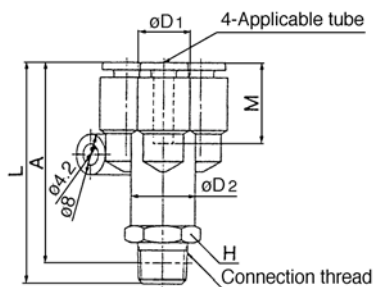
<R(PT)>



Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	øD <sup>(1)</sup>	L	P	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)
									Nylon	Urethane	
4	M5	KGU04-M5	11	10.4	39.5	10.4	36	16	2.2	2.2	4
	1/8	KGU04-01			42		38		4.2	4.2	11
	1/4	KGU04-02	14		46	40	20				
6	M5	KGU06-M5	13	12.8	42.5	12.8	39	17	2.2	2.2	12
	1/8	KGU06-01			45.5		41.5		11		
	1/4	KGU06-02	14		49	43	21				
	3/8	KGU06-03	17		51	44.5	34				
8	1/8	KGU08-01	17	15.2	52.5	15.2	48.5	18.5	25.6	17.7	15
	1/4	KGU08-02			55.5		49.5				23
	3/8	KGU08-03			56.5		50				35
10	1/4	KGU10-02	19	18.5	61	18.5	55	21	40	28.4	30
	3/8	KGU10-03			62		55.5				40
	1/2	KGU10-04	22		65		57				65
12	1/4	KGU12-02	22	20.9	64.5	20.9	58.5	22	57.4	45.4	32
	3/8	KGU12-03			65.5		59				40
	1/2	KGU12-04			68.5		60.5				65

\* Reference dimensions after R(PT) thread installation.  
Note1) øD: max. diameter

## Double branch: KGUD

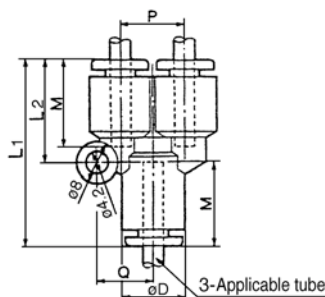


Tube O.D. (mm)	Connection thread R(PT)	Part No.	H (Hex.)	øD <sup>(1)</sup>	øD <sub>2</sub>	L	I	A*	Q	M	P	Effective area (mm <sup>2</sup> )		Weight (g)
												Nylon	Urethane	
4	1/8	KGUD04-01	13	10.4	12.8	43.5	21	39.5	9.7	16	10.4	4.2	4.2	17
	1/4	KGUD04-02	14			47								41
6	1/8	KGUD06-01	17	12.8	15.2	50.5	26	46.5	11.7	17	12.8	13.4	10.6	29
	1/4	KGUD06-02				53.5								47.5

\* Reference dimensions after R(PT) thread installation.  
Note1) øD<sub>1</sub>: max. diameter



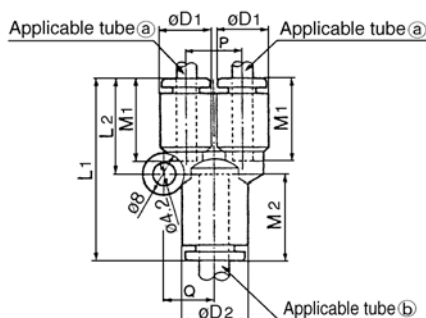
## Union "Y": KGU



Tube O.D. (mm)	Part No.	øD <sup>(1)</sup>	L1	L2	P	Q	M	Effective area (mm <sup>2</sup> )		Weight (g)
								Nylon	Urethane	
4	<b>KGU04-00</b>	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	<b>KGU06-00</b>	12.8	37	20	12.8	11.7	17	13.4	10.6	9
8	<b>KGU08-00</b>	15.2	42.5	24.5	15.2	13.7	18.5	25.6	17.7	11
10	<b>KGU10-00</b>	18.5	48	27.5	18.5	16.1	21	40	28.4	16
12	<b>KGU12-00</b>	20.9	51	30	20.9	18.1	22	57.4	45.4	23

Note1) øD: max. diameter

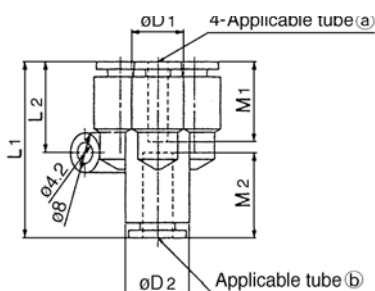
## Different diameter union "Y": KGU



Tube O.D. (mm)		Part No.	øD <sup>(1)</sup>	øD <sup>(1)</sup>	L1	L2	P	Q	M1	M2	Effective area (mm <sup>2</sup> )		Weight (g)
a	b										Nylon	Urethane	
4	6	<b>KGU04-06</b>	10.4	12.8	35	18	10.4	9.7	16	17	4.2	4.2	6
6	8	<b>KGU06-08</b>	12.8	15.2	39.5	20	12.8	11.7	17	18.5	13.4	10.6	11
8	10	<b>KGU08-10</b>	15.2	18.5	45	24.5	15.2	13.7	18.5	21	25.6	17.7	18
10	12	<b>KGU10-12</b>	18.5	20.9	49	27.5	18.5	16.1	21	22	40	28.4	27

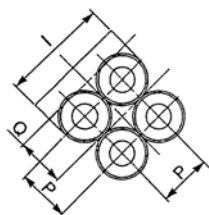
Note1) øD1, øD2: max. diameter

## Different diameter double union "Y": KGUD

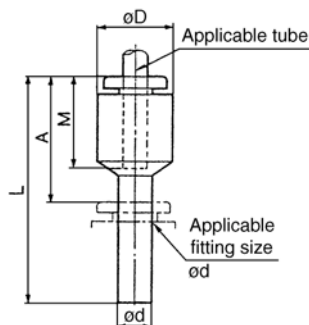


Tube O.D. (mm)		Part No.	øD <sup>(1)</sup>	øD <sup>(1)</sup>	L1	L2	P	I	Q	M1	M2	Effective area (mm <sup>2</sup> )		Weight (g)
a	b											Nylon	Urethane	
4	6	<b>KGUD04-06</b>	10.4	12.8	35.5	18.2	10.4	21	9.7	16	17	4.2	4.2	10
6	8	<b>KGUD06-08</b>	12.8	15.2	40.5	20.3	12.8	26	11.7	17	18.5	13.4	10.6	17

Note1) øD1, øD2: max. diameter



## Plug-in reducer: KGR



Tube O.D. (mm)	Fitting size ød	Part No.	øD <sup>(1)</sup>	L	A*	M	Effective <sup>(2)</sup> area (mm <sup>2</sup> )		Weight (g)
							Nylon	Urethane	
4	6	<b>KGR04-06</b>	10.4	34.5	17.5	16	5.6	4	1.8
	8	<b>KGR04-08</b>		36.5	18				2.0
	10	<b>KGR04-10</b>		39.5	18.5				3.3
6	4	<b>KGR06-04</b>	12.8	37	21	17	13.1	10.4	3
	8	<b>KGR06-08</b>		37	18.5				2.5
	10	<b>KGR06-10</b>		39.5					3
8	10	<b>KGR08-10</b>	15.2	41	20	18.5	26.1	18.0	4.0
	12	<b>KGR08-12</b>		42					4.6
	16	<b>KGR10-16</b>		44.5					23
10	16	<b>KGR10-16</b>	20.9	50.5	25.5	21	41.5	32.8 (29.5)	42
12	16	<b>KGR12-16</b>	20.9	50.5	25.5	22	58.3	(46.1)	37

Note1) øD: max. diameter  
Note2) ( ): Values for soft nylon.

K□

M□

H□

D□

MS

T□

LQ

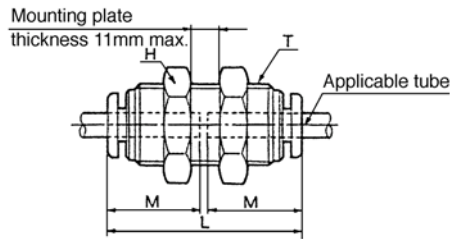
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# Series KG



## Bulkhead union: KGE



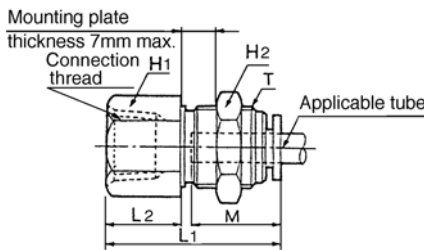
Tube O.D. (mm)	Part No.	T(M)	H (Hex.)	L	Mounting hole	M	Effective <sup>(1)</sup> area (mm <sup>2</sup> )		Weight (g)
							Nylon	Urethane	
4	<b>KGE04-00</b>	M12 X 1	14	32.5	13	16	5.6	4	26
6	<b>KGE06-00</b>	M14 X 1	17	34.5	15	17	13.1	10.4	33
8	<b>KGE08-00</b>	M16 X 1	19	38	17	18.5	26.1	18.0	52
10	<b>KGE10-00</b>	M20 X 1	24	42.5	21	21	41.5	29.5	70
12	<b>KGE12-00</b>	M22 X 1	27	44	23	22	58.3	46.1	90
16	<b>KGE16-00</b>	M28 X 1.5	32	51	29	25	113	(96)	115



Note1) ( ): Values for soft nylon.



## Bulkhead connector: KGE

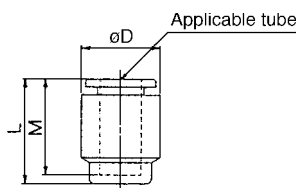


Tube O.D. (mm)	Connection thread R(PT)	Part No.	T(M)	H1 (Hex.)	H2 (Hex.)	L1	L2	Mounting hole	M	Effective <sup>(1)</sup> area (mm <sup>2</sup> )		Weight (g)			
										Nylon	Urethane				
4	1/8	<b>KGE04-01</b>	M12 X 1	14	14	27.5	11	13	16	5.6	4	16			
	1/4	<b>KGE04-02</b>		17								31	15	35	
6	1/8	<b>KGE06-01</b>	M14 X 1	17	17	31.5	15	15	17	13.1	10.4	30			
	1/4	<b>KGE06-02</b>										19	33.5	17	30
	3/8	<b>KGE06-03</b>													29
8	1/8	<b>KGE08-01</b>	M16 X 1	17	19	27.5	7.5	17	18.5	26.1	18.0	28			
	1/4	<b>KGE08-02</b>										19	33	13	27
	3/8	<b>KGE08-03</b>													48
10	1/4	<b>KGE10-02</b>	M20 X 1	22	24	34.5	12.5	21	21	41.5	29.5	53			
	3/8	<b>KGE10-03</b>										67			
12	3/8	<b>KGE12-03</b>	M22 X 1	24	27	37	14	23	22	58.3	46.1	92			
	1/2	<b>KGE12-04</b>										59			
16	3/8	<b>KGE16-03</b>	M28 X 1.5	30	32	40	14	29	25	96	(96)	127			
	1/2	<b>KGE16-04</b>										132			



Note1) ( ): Values for soft nylon.

## Tube cap: KGC



Tube O.D. (mm)	Part No.	øD <sup>(1)</sup>	L	M	Weight (g)
4	<b>KGC04-00</b>	10.4	17	16	3
6	<b>KGC06-00</b>	12.8	18.5	17	3
8	<b>KGC08-00</b>	15.2	20.5	18.5	4
10	<b>KGC10-00</b>	18.5	23	21	6
12	<b>KGC12-00</b>	20.9	24	22	8
16	<b>KGC16-00</b>	26.5	28	25	13



Note1) øD: max. diameter

**K**

**M**

**H**

**D**

**MS**

**T**

**LQ**

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