

# Antistatic One-touch Fittings

## Series KA

**One-touch loading and unloading**

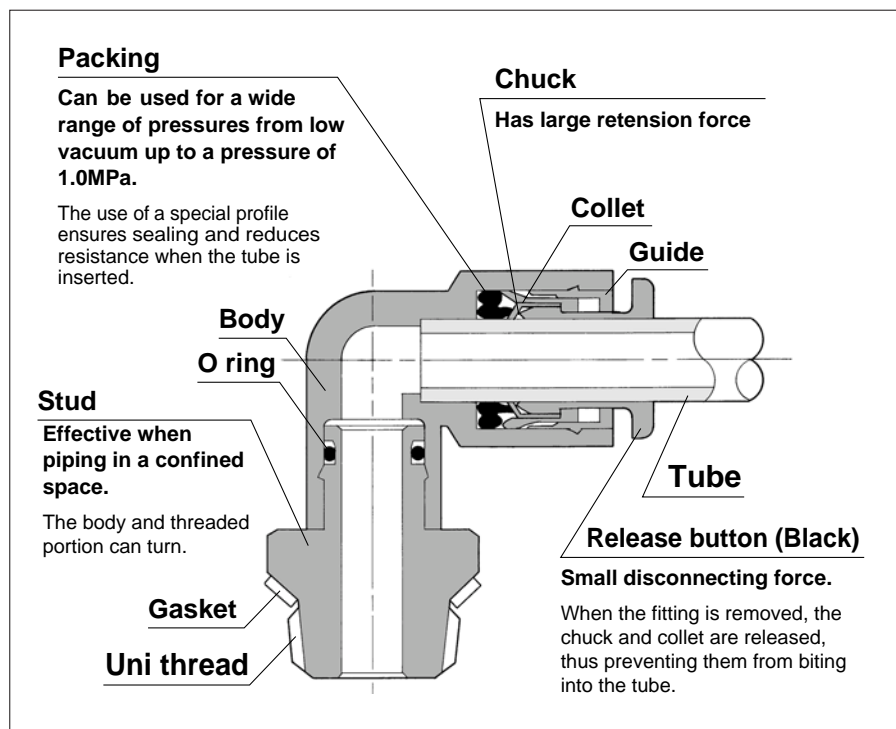
**Possible to use in vacuum (Max. -100kPa)**

**Can be used in copper-free application**

**Flame resistance (UL-94 standard, V-0)**

**Surface resistance  $10^4$  to  $10^7 \Omega$**

**Conductive resin is used for body and seals in fittings and tubing.**



### Applicable Tubing

Tube material	Antistatic soft nylon, Polyurethane
Tube O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12

### Component Materials







Body	C3604BD, PBT
Stud	C3604BD
Chuck	SUS304
Guide	SUS304, C3604BD, PBT
Collet, Release button	PBT
Packing, O ring	NBR

- C3604BD is all electroless nickel plated.
- PBT parts have conductive ( $10^4$  to  $10^7 \Omega$ ) and fire resistant applications. (UL-standard, V-O)
- Conductive NBR ( $10^4$  to  $10^7 \Omega$ ) is used for packing

### Specifications

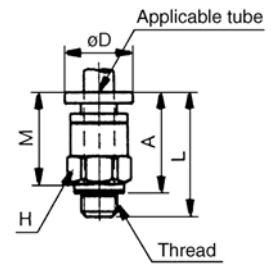
Fluid	Air
Max. operating pressure	1.0MPa
Max. operating vacuum pressure	-100kPa
Proof pressure	3.0MPa
Ambient and fluid temperature	0 to 40°C
Thread	Uni thread JISB0209, class2 (Metric coarse screw thread)
Sealant (Thread portion)	Gasket
Copper-free application	All brass parts electroless nickel plated
Surface resistance	$10^4$ to $10^7 \Omega$

## Male connector: KAH

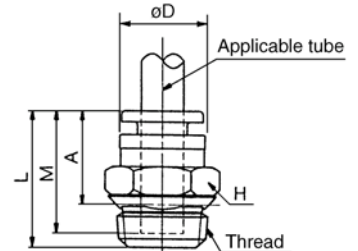
	<M5, M6>	Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD	L	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)
										Soft nylon	Polyurethane	
	<M5, M6>	3.2	M5	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1
			M6	KAH23-M6	8		17.5	14				
			1/8	KAH23-U01	10	12.5	8.5	4				
	<Uni thread>	4	M5	KAH04-M5	8	9.5	17	14	13	4	4	2
			M6	KAH04-M6	10		17.5	14				
			1/8	KAH04-U01	10	18.5	13.5	16	5.6	5.6	5	
			1/4	KAH04-U02	14		16.5	10.5				10
	<Uni thread>	6	M5	KAH06-M5	10	11.5	18.5	15	14	4	4	3
			M6	KAH06-M6	12		19	15				
			1/8	KAH06-U01	12	19.5	14.5	17	13.1	13.1	5	
1/4	KAH06-U02	14	13	10								
			3/8	KAH06-U03	17		17.5	11.5				16
	<Uni thread>	8	1/8	KAH08-U01	14	14	25	20.5	18.5	18.0	18.0	11
			1/4	KAH08-U02	14		21.5	15.5				
			3/8	KAH08-U03	17	19.5	13.5	33				
	<Uni thread>	10	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	17
			1/4	KAH10-U02	17		22	22				
			3/8	KAH10-U03	17	24	18	14				
			1/2	KAH10-U04	22		22	14				28
	<Uni thread>	12	1/4	KAH12-U02	19	19	30.5	24.5	22	46.1	46.1	22
			3/8	KAH12-U03	19		25.5	19.5				
			1/2	KAH12-U04	22	24.5	16.5	28				

\* Reference dimensions after Uni thread installation.







<M5, M6>



<Uni thread>

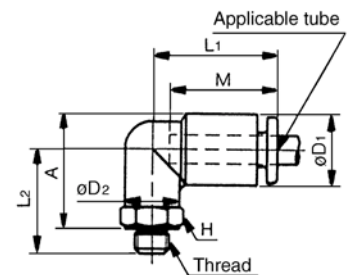


## Male elbow: KAL

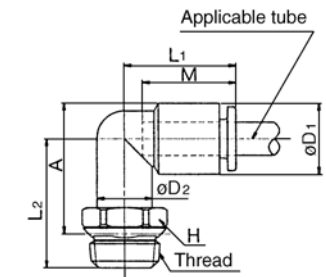
	<M5, M6>	Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD1	øD2	L1	L2	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)
												Soft nylon	Polyurethane	
	<M5, M6>	3.2	M5	KAL23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	6
			M6	KAL23-M6	8				15.5					
			1/8	KAL23-U01	10	19.5	21	8						
	<Uni thread>	4	M5	KAL04-M5	8	10.4	8	18	15.5	16	16	3.5	3.5	4
			M6	KAL04-M6	8				16					
			1/8	KAL04-U01	10	20	20.5	8						
			1/4	KAL04-U02	14		22	21.5			4.2	4.2	14	
	<Uni thread>	6	M5	KAL06-M5	8	12.8	8	20	16	18	17	3.5	3.5	6
			M6	KAL06-M6	8				16.5					
			1/8	KAL06-U01	10	21.5	23.5	9						
			1/4	KAL06-U02	14		23				11.4	11.4	15	
			3/8	KAL06-U03	17		24	24.5						23
	<Uni thread>	8	1/8	KAL08-U01	12	15.2	12	23	22.5	25.5	18.5	14.9	14.9	11
			1/4	KAL08-U02	14				24.5					
			3/8	KAL08-U03	17	25.5	27	24						
	<Uni thread>	10	1/8	KAL10-U01	17	18.5	17	26.5	25	29.5	21	14.9	14.9	24
			1/4	KAL10-U02	17				26.5					
			3/8	KAL10-U03	17	27	30.5	25	25.0	25.0	25			
			1/2	KAL10-U04	22		30	31.5						45
	<Uni thread>	12	1/4	KAL12-U02	17	20.9	17	28.5	27	31.5	22	39.7	39.7	27
			3/8	KAL12-U03	17				28					
			1/2	KAL12-U04	22	31	33.5	48						

\* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>

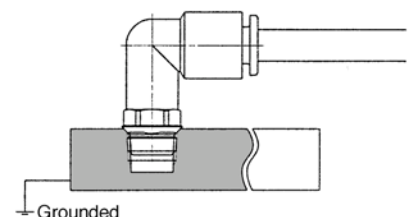


## ⚠ Precautions

Be sure to read before handling. Refer to p.0-26 and 0-27 for Safety Instructions and common precautions on the products mentioned in this catalogue, and refer to p.2.0-7 and 2.0-8 for more detailed precautions of every series.

### ⚠ Caution

① Female thread portion connected with fitting must be grounded, or fitting and tubing will have static electricity.



K□

M□

H□

D□

MS







T□

LQ

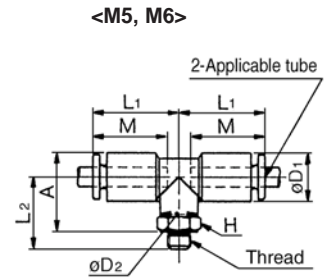
Clean Room

# Series KA

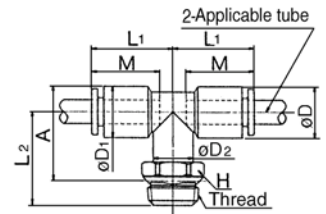
## Male branch tee: KAT

	<M5, M6>	Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD1	øD2	L1	L2	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)	
												Soft nylon	Polyure- thane		
	3.2		M5	KAT23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	8	
			M6	KAT23-M6	8				15.5						
			1/8	KAT23-U01	10				19.5						21
	4		M5	KAT04-M5	8	10.4	8	18	15.5	17	16	4.3	4.3	6	
			M6	KAT04-M6	8				16						
			1/8	KAT04-U01	10				20						
			1/4	KAT04-U02	14				22						
	6		M5	KAT06-M5	8	12.8	8	20	16	18	17	4.3	4.3	7	
			M6	KAT06-M6	8				16.5						
			1/8	KAT06-U01	10				21.5						
			1/4	KAT06-U02	14				23						
			3/8	KAT06-U03	17				24						24.5
	8		1/8	KAT08-U01	12	15.2	12	23	22.5	26	18.5	18.2	18.2	14	
			1/4	KAT08-U02	14				24.5						
			3/8	KAT08-U03	17				25.5						27
	10		1/8	KAT10-U01	12	18.5	17	26.5	25	29.5	21	29.0	29.0	30	
			1/4	KAT10-U02	17				26.5						30
			3/8	KAT10-U03	17				27						30.5
			1/2	KAT10-U04	22				30						31.5
	12		1/4	KAT12-U02	17	20.9	17	28.5	27	31.5	22	45.2	45.2	31	
			3/8	KAT12-U03	17				28						32.5
			1/2	KAT12-U04	22				31						33.5







\* Reference dimensions after Uni thread installation.



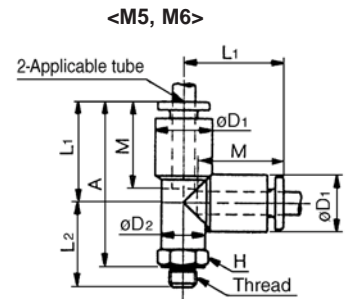
<Uni thread>



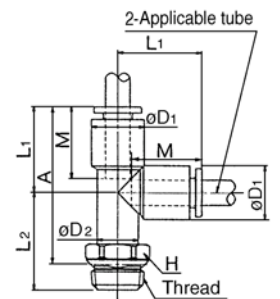
## Male run tee: KAY

	<M5, M6>	Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD1	øD2	L1	L2	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)	
												Soft nylon	Polyure- thane		
	3.2		M5	KAY23-M5	8	9.6	8	17.5	15	28.5	15.5	3.4	2.9	8	
			M6	KAY23-M6	8				15.5						
			1/8	KAY23-U01	10				19.5						33
	4		M5	KAY04-M5	8	10.4	8	18	15.5	29.5	16	4.6	4.6	6	
			M6	KAY04-M6	8				16						
			1/8	KAY04-U01	10				20						34
			1/4	KAY04-U02	14				22						34.5
	6		M5	KAY06-M5	8	12.8	8	20	16	32	17	4.6	4.6	8	
			M6	KAY06-M6	8				20.5						16.5
			1/8	KAY06-U01	10				21.5						37.5
			1/4	KAY06-U02	14				23						37
			3/8	KAY06-U03	17				24						38
	8		1/8	KAY08-U01	12	15.2	12	23	22.5	41.5	18.5	17.7	17.7	14	
			1/4	KAY08-U02	14				24.5						
			3/8	KAY08-U03	17				25.5						42.5
	10		1/8	KAY10-U01	12	18.5	17	26.5	25	46.5	21	28.4	28.4	30	
			1/4	KAY10-U02	17				26.5						47.5
			3/8	KAY10-U03	17				27						48
			1/2	KAY10-U04	22				30						49
	12		1/4	KAY12-U02	17	20.9	17	28.5	27	49.5	22	45.4	45.4	31	
			3/8	KAY12-U03	17				28						50.5
			1/2	KAY12-U04	22				31						51.5

\* Reference dimensions after Uni thread installation.





<Uni thread>

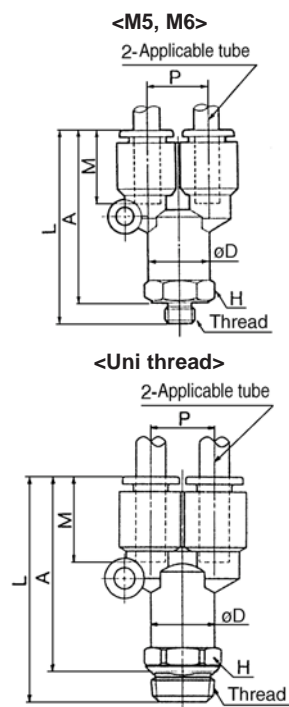


# Antistatic One-touch Fittings Series KA


## Branch: KAU

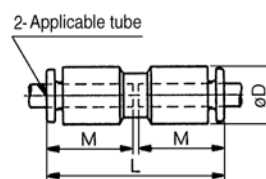
	Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD	L	P	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)
										Soft nylon	Polyurethane	
<b>&lt;M5, M6&gt;</b> 	3.2	M5	KAU23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9
		M6	KAU23-M6	11		38.5				3.4	2.9	
		1/8	KAU23-U01	11								
	4	M5	KAU04-M5	11	10.4	39.5	10.4	36	16	2.2	2.2	4
		M6	KAU04-M6			10						
		1/8	KAU04-U01	11	40	4.2	4.2	11				
		1/4	KAU04-U02	14	42			16				
<b>&lt;Uni thread&gt;</b> 	6	M5	KAU06-M5	13	12.8	42.5	12.8	39	17	2.2	2.2	12
		M6	KAU06-M6			43						
		1/8	KAU06-U01	14	43.5	39.5	13.4	13.4	13			
		1/4	KAU06-U02	14	45	39			17			
		3/8	KAU06-U03	17	46	40			25			
	8	1/8	KAU08-U01	17	15.2	50.5	15.2	46	18.5	17.7	17.7	26
		1/4	KAU08-U02			52				46	24	
		3/8	KAU08-U03	17	51.5	45.5			27			
	10	1/4	KAU10-U02	19	18.5	57.5	18.5	51.5	21	28.4	28.4	38
		3/8	KAU10-U03			59				51	51	
		1/2	KAU10-U04	22					53			
	12	1/4	KAU12-U02	22	20.9	61	20.9	55	22	45.4	45.4	52
		3/8	KAU12-U03			62.5				54.5	52	
		1/2	KAU12-U04	22					52			

\* Reference dimensions after Uni thread installation.




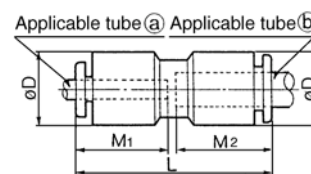
## Straight union: KAH

	Tube O.D. (mm)	Part No.	øD	L	M	Effective area (mm <sup>2</sup> )		Weight (g)
						Soft nylon	Polyurethane	
	3.2	KAH23-00	9.6	31.5	15.5	3.4	2.9	3
	4	KAH04-00	10.4	32.5	16	5.6	5.6	3
	6	KAH06-00	12.8	34.5	17	13.1	13.1	4
	8	KAH08-00	15.2	38.5	18.5	18.0	18.0	6
	10	KAH10-00	18.5	42.5	21	29.5	29.5	11
	12	KAH12-00	20.9	44.5	22	46.1	46.1	14



## Different diameter straight: KAH

	Tube O.D. (mm)		Part No.	øD	L	M1	M2	Effective area (mm <sup>2</sup> )		Weight (g)
	a	b						Soft nylon	Polyurethane	
	3.2	4	KAH23-04	10.4	32.5	15.5	16	3.2	2.7	3
	4	6	KAH04-06	12.8	34.5	16	17	4.2	4.2	4
	6	8	KAH06-08	15.2	38.5	17	18.5	10.7	10.7	6
	8	10	KAH08-10	18.5	42	18.5	21	16.7	16.7	11
	10	12	KAH10-12	20.9	44.5	21	22	28.2	28.2	14



K

M

H

D

MS

T

LQ

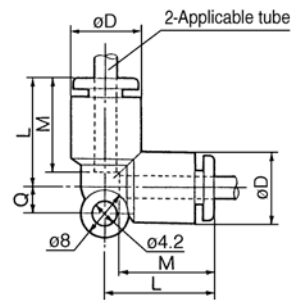
Clean Room

# Series KA

## Union elbow: KAL



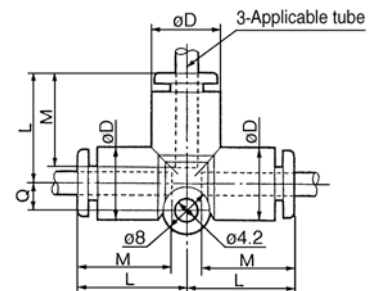
Tube O.D. (mm)	Part No.	øD	L	Q	M	Effective area (mm <sup>2</sup> )		Weight (g)
						Soft nylon	Polyurethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12	KAL12-00	20.9	28.5	7.5	22	39.7	39.7	21



## Branch tee: KAT



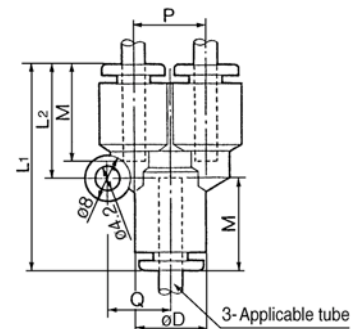
Tube O.D. (mm)	Part No.	øD	L	Q	M	Effective area (mm <sup>2</sup> )		Weight (g)
						Soft nylon	Polyurethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25
12	KAT12-00	20.9	28.5	7.5	22	45.4	45.4	29



## Branch "Y": KAU



Tube O.D. (mm)	Part No.	øD	L1	L2	P	Q	M	Effective area (mm <sup>2</sup> )		Weight (g)
								Soft nylon	Polyurethane	
3.2	KAU23-00	9.6	33	17.5	9.6	9	15.5	3.4	2.9	5
4	KAU04-00	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	KAU06-00	12.8	37	20	12.8	11.7	17	13.4	13.4	9
8	KAU08-00	15.2	42.5	24.5	15.2	13.7	18.5	17.7	17.7	11
10	KAU10-00	18.5	48	27.5	18.5	16.1	21	28.4	28.4	16
12	KAU12-00	20.9	51	30	20.9	18.1	22	45.4	45.4	23



## Plug-in reducer: KAR



Tube O.D. (mm)	Fitting size ød	Part No.	øD	L	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
							Soft nylon	Polyurethane	
3.2	4	KAR23-04	9.6	33.5	18.5	15.5	3.4	2.9	5
	6	KAR04-06	10.4	34.5	17.5	16	5.6	5.6	1.8
	8	KAR04-08		36.5	18				2.0
4	10	KAR04-10	12.8	39.5	18.5	17	13.1	13.1	3.3
	8	KAR06-08	12.8	37	18.5				2.5
	10	KAR06-10		39.5					20
6	12	KAR06-12	15.2	42	20	18.5	18.0	18.0	4.7
	8	KAR08-10		41	20				4.0
8	12	KAR08-12	18.5	42	20	21	32.8	32.8	4.6
	10	KAR10-12		44.5	20				33

