

Antistatic One-touch Fittings

Series KA

One-touch loading and unloading

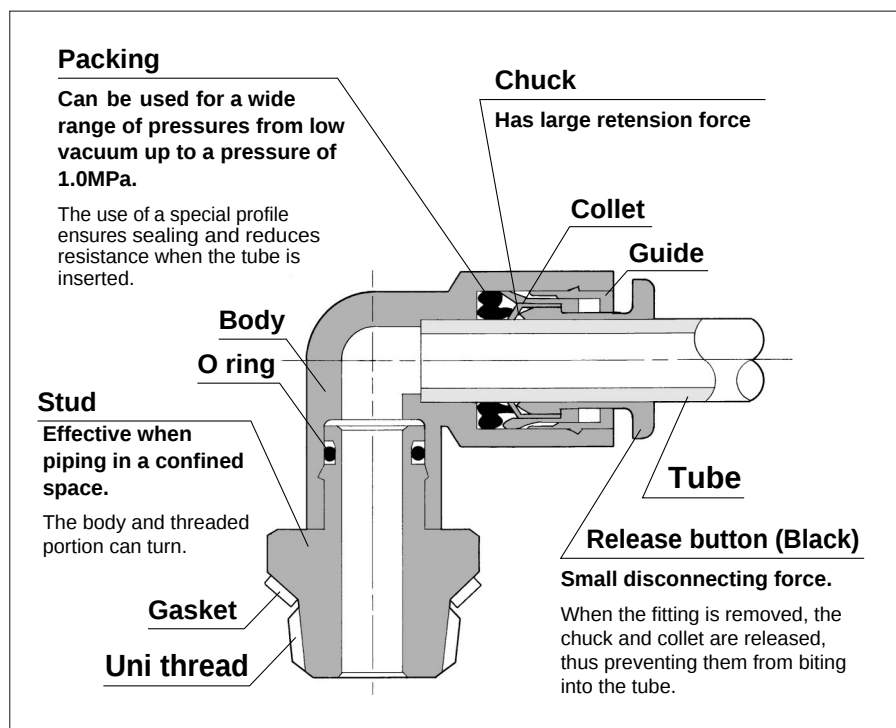
Possible to use in vacuum (Max. -100kPa)

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 $10^7 \Omega$

Antistatic One-touch Fittings *Series KA*

Male connector: KAH

<M5, M6>



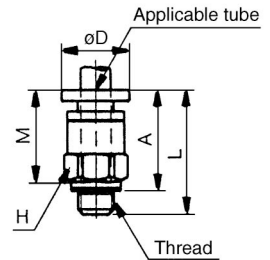
<Uni thread>



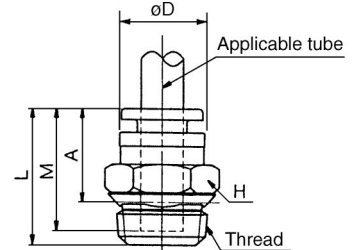
Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD	L	A*	M	Effective area (mm ²)		Weight (g)
								Soft nylon	Polyure- thane	
3.2	M5 X 0.8	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1
	M6 X 1.0	KAH23-M6	8		17.5					
	1/8	KAH23-U01	10		12.5					
4	M5 X 0.8	KAH04-M5	8	9.5	17	14	13	4	4	2
	M6 X 1.0	KAH04-M6			17.5					
	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	
	6	M5 X 0.8	KAH06-M5	10	11.5	18.5	15	14	4	4
M6 X 1.0		KAH06-M6	19							
1/8		KAH06-U01	12	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
8	1/8	KAH08-U01	14	14	25	20.5	18.5	18.0	18.0	11
	1/4	KAH08-U02			21.5	15.5				27
	3/8	KAH08-U03			17	19.5				13.5
10	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	17
	1/4	KAH10-U02			22	14				14
	3/8	KAH10-U03			24	18				28
	1/2	KAH10-U04			22	22				14
12	1/4	KAH12-U02	19	19	30.5	24.5	22	46.1	46.1	22
	3/8	KAH12-U03			25.5	19.5				16
	1/2	KAH12-U04			22	24.5				16.5

* Reference dimensions after Uni thread installation.

<M5, M6>

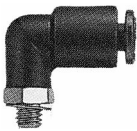


<Uni thread>



Male elbow: KAL

<M5, M6>



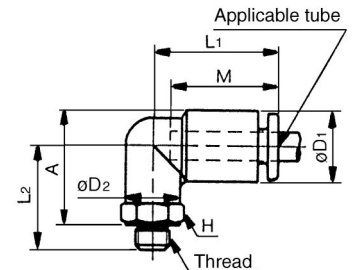
<Uni thread>



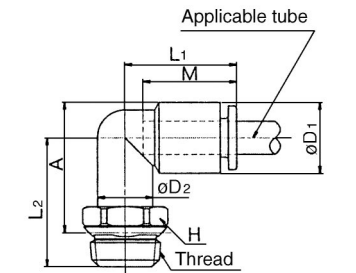
Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)	
										Soft nylon	Polyure- thane		
3.2	M5 X 0.8	KAL23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	6	
	M6 X 1.0	KAL23-M6					15.5					7	
	1/8	KAL23-U01	10		10		19.5	21				8	
4	M5 X 0.8	KAL04-M5	8	10.4	8	18	15.5	16	16	3.5	3.5	4	
	M6 X 1.0	KAL04-M6					16					5	
	1/8	KAL04-U01	10		20		20.5	4.2		4.2	8		
	1/4	KAL04-U02	14		22	21.5	14						
	6	M5 X 0.8	KAL06-M5		8	12.8	8	20	16	18	17	3.5	3.5
M6 X 1.0		KAL06-M6	16.5	5									
1/8		KAL06-U01	10	21.5	23.5		11.4		11.4	9			
1/4		KAL06-U02	14	23				15					
3/8		KAL06-U03	17	24				24.5		23			
8		1/8	KAL08-U01	12	15.2		12	23	22.5	25.5	18.5	14.9	14.9
	1/4	KAL08-U02	14	24.5		26			16				
	3/8	KAL08-U03	17	25.5		27			24				
10	1/8	KAL10-U01	17	18.5	17	26.5	25	29.5	21	14.9	14.9	24	
	1/4	KAL10-U02					26.5					30	21
	3/8	KAL10-U03	27				30.5	25.0		25.0	25		
	1/2	KAL10-U04	22			30	31.5		45				
	12	1/4	KAL12-U02			17	20.9	17	28.5	27	31.5	22	39.7
3/8		KAL12-U03	28	32.5	27								
1/2		KAL12-U04	22	31	33.5	48							

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>

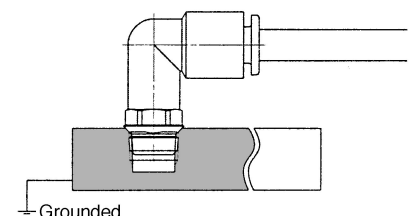


⚠ Precautions

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 catalog, 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□

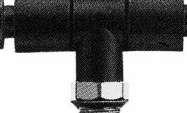
D□

MS

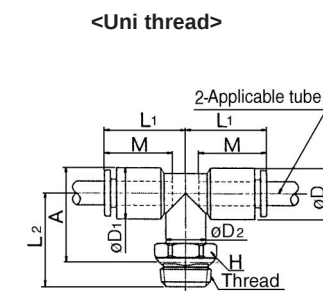
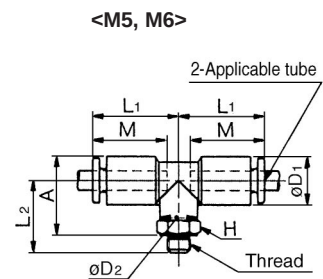
T□

Series KA

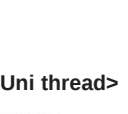
Male branch tee: KAT

<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 ²)		Weight (g)
											Soft nylon	Polyure- thane	
	3.2	M5 X 0.8	KAT23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	8
		M6 X 1.0	KAT23-M6	8				15.5					9
		1/8	KAT23-U01	10				19.5					9
	4	M5 X 0.8	KAT04-M5	8	10.4	8	18	15.5	17	16	4.3	4.3	6
		M6 X 1.0	KAT04-M6	8				16					9
		1/8	KAT04-U01	10				20			6.0	6.0	15
		1/4	KAT04-U02	14				22					15
		3/8	KAT04-U03	17				24					15
	6	M5 X 0.8	KAT06-M5	8	12.8	8	20	16	18	17	4.3	4.3	7
		M6 X 1.0	KAT06-M6	8				16.5					10
		1/8	KAT06-U01	10				21.5			13.9	13.9	16
		1/4	KAT06-U02	14				23					25
		3/8	KAT06-U03	17				24					25
	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					19
		3/8	KAT08-U03	17				25.5					27
	10	1/8	KAT10-U01	17				25			29.0	29.0	30
		1/4	KAT10-U02	17				26.5					27
		3/8	KAT10-U03	17				27					31
	12	1/2	KAT10-U04	22	20.9	17	28.5	30	31.5	22	45.2	45.2	51
		1/4	KAT12-U02	17				27					31
		3/8	KAT12-U03	17				28					34
		1/2	KAT12-U04	22				31					54
		1/2	KAT12-U04	22				31					54

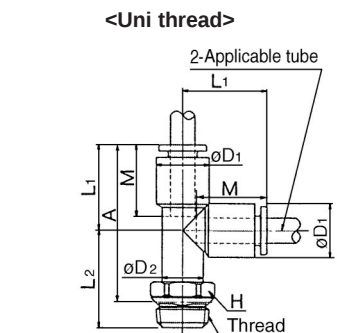
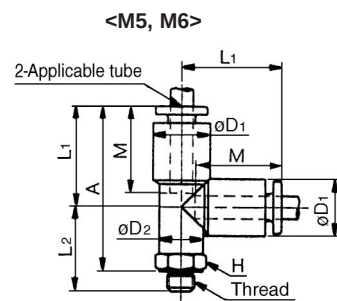
* Reference dimensions after Uni thread installation.



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 ²)		Weight (g)
											Soft nylon	Polyure- thane	
	3.2	M5 X 0.8	KAY23-M5	8	9.6	8	17.5	15	28.5	15.5	3.4	2.9	8
		M6 X 1.0	KAY23-M6	8				15.5					9
		1/8	KAY23-U01	10				19.5					9
	4	M5 X 0.8	KAY04-M5	8	10.4	8	18	15.5	29.5	16	4.6	4.6	6
		M6 X 1.0	KAY04-M6	8				18.5					9
		1/8	KAY04-U01	10				20			6.4	6.4	15
		1/4	KAY04-U02	14				22					15
		3/8	KAY04-U03	17				24					15
	6	M5 X 0.8	KAY06-M5	8	12.8	8	20	16	32	17	4.6	4.6	8
		M6 X 1.0	KAY06-M6	8				20.5					10
		1/8	KAY06-U01	10				21.5			13.4	13.4	16
		1/4	KAY06-U02	14				23					25
		3/8	KAY06-U03	17				24					25
	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					18
		3/8	KAY08-U03	17				25.5					27
	10	1/8	KAY10-U01	17				25			28.4	28.4	30
		1/4	KAY10-U02	17				26.5					27
		3/8	KAY10-U03	17				27					31
	12	1/2	KAY10-U04	22	20.9	17	28.5	30	49	22	45.4	45.4	51
		1/4	KAY12-U02	17				27					31
		3/8	KAY12-U03	17				28					35
		1/2	KAY12-U04	22				31					55
		1/2	KAY12-U04	22				31					55

* Reference dimensions after Uni thread installation.



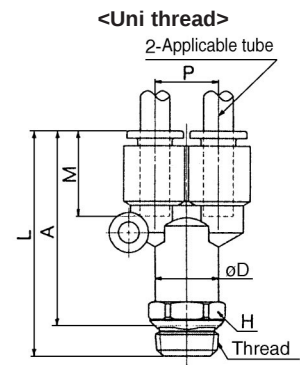
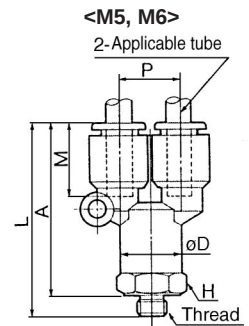
Antistatic One-touch Fittings *Series KA*

Branch: KAU



<M5, M6>	Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD	L	P	A*	M	Effective area (mm ²)		Weight (g)
										Soft nylon	Polyure- thane	
3.2	3.2	M5 X 0.8	KAU23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9
		M6 X 1.0	KAU23-M6	11		38.5				3.4	2.9	11
		1/8	KAU23-U01	11		39.5				2.2	2.2	4
4	4	M5 X 0.8	KAU04-M5	11	10.4	40	10.4	36	16	2.2	2.2	10
		M6 X 1.0	KAU04-M6	14		42				4.2	4.2	11
		1/8	KAU04-U01	14		42				2.2	2.2	16
6	6	M5 X 0.8	KAU06-M5	13	12.8	42.5	12.8	39	17	2.2	2.2	12
		M6 X 1.0	KAU06-M6	14		43				13.4	13.4	13
		1/8	KAU06-U01	14		45				2.2	2.2	17
8	8	1/4	KAU06-U02	17	15.2	46	15.2	40	18.5	17.7	17.7	25
		3/8	KAU06-U03	17		46				2.2	2.2	26
		1/8	KAU08-U01	17		50.5				17.7	17.7	24
10	10	1/4	KAU08-U02	19	18.5	52	18.5	46	21	28.4	28.4	27
		3/8	KAU08-U03	19		51.5				2.2	2.2	38
		1/2	KAU10-U02	22		59				28.4	28.4	36
12	12	3/8	KAU10-U03	22	20.9	57.5	20.9	51	22	45.4	45.4	51
		1/2	KAU10-U04	22		55				2.2	2.2	53
		3/8	KAU12-U02	22		61				45.4	45.4	52
		1/2	KAU12-U03	22		62.5		54.5				52

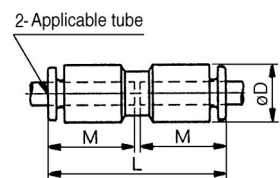
* Reference dimensions after Uni thread installation.



Straight union: KAH



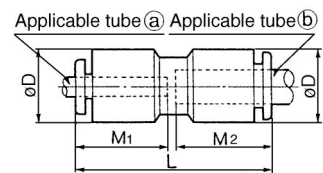
Tube O.D. (mm)	Part No.	øD	L	M	Effective area (mm ²)		Weight (g)
					Soft nylon	Polyurethane	
3.2	KAH23-00	9.6	31.5	15.5	3.4	2.9	3
4	KAH04-00	10.4	32.5	16	5.6	5.6	3
6	KAH06-00	12.8	34.5	17	13.1	13.1	4
8	KAH08-00	15.2	38.5	18.5	18.0	18.0	6
10	KAH10-00	18.5	42.5	21	29.5	29.5	11
12	KAH12-00	20.9	44.5	22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



Different diameter straight: KAH



Tube O.D. (mm)		Part No.	øD	L	M1	M2	Effective area (mm ²)		Weight (g)
							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

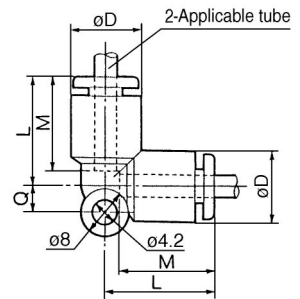
T□

Series KA

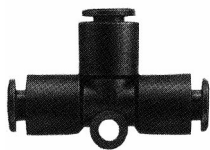
Union elbow: KAL



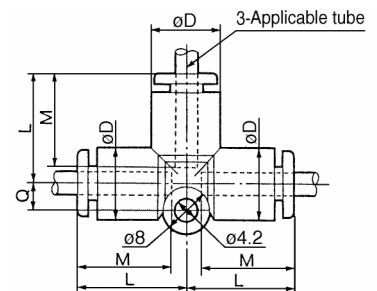
Tube O.D. (mm)	Part No.	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Polyurethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12	KAL12-00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



Branch tee: KAT



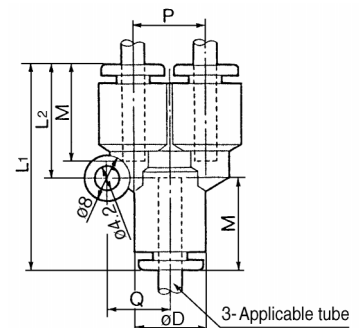
Tube O.D. (mm)	Part No.	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Polyurethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25
12	KAT12-00	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 ²)		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 ²)		Weight (g)
							Soft nylon	Polyurethane	
3.2	4	KAR23-04	9.6	33.5	18.5	15.5	3.4	2.9	5
4	6	KAR04-06	10.4	34.5	17.5	16	5.6	5.6	1.8
	8	KAR04-08		36.5	18				2.0
	10	KAR04-10		39.5	18.5				3.3
6	8	KAR06-08	12.8	37	18.5	17	13.1	13.1	2.5
	10	KAR06-10		39.5	20				3.0
	12	KAR06-12		42	20				4.7
8	10	KAR08-10	15.2	41	20	18.5	18.0	18.0	4.0
	12	KAR08-12		42	20				4.6
10	12	KAR10-12	18.5	44.5	20	21	32.8	32.8	33

