

Antistatic One-touch Fittings

Series KA

One-touch loading and unloading

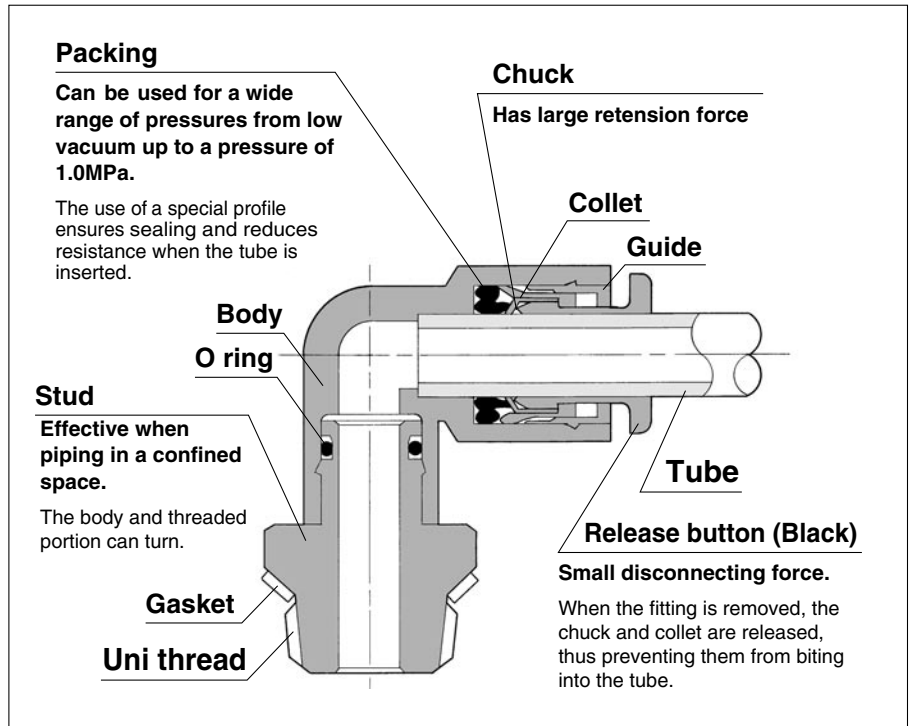
Possible to use in vacuum (Max. -100kPa)

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.	$\phi 3.2$, $\phi 4$, $\phi 6$, $\phi 8$, $\phi 10$, $\phi 12$

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

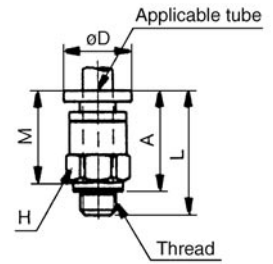
<M5, M6>



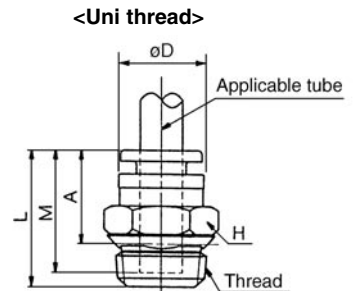
Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD	L	A*	M	Effective area (mm ²)		Weight (g)						
								Soft nylon	Polyurethane							
3.2	M5	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1						
	M6	KAH23-M6	8		17.5											
	1/8	KAH23-U01	10		12.5						8.5	4				
4	M5	KAH04-M5	8	9.5	17	14	13	4	4	2						
	M6	KAH04-M6	8		17.5											
	1/8	KAH04-U01	10		18.5						13.5	5				
6	1/4	KAH04-U02	14	10	16.5	10.5	16	5.6	5.6	10						
	M5	KAH06-M5	10		11.5						18.5	15	14	4	4	3
	M6	KAH06-M6	10								19					
8	1/8	KAH06-U01	12	12	19.5	14.5	17	13.1	13.1	5						
	1/4	KAH06-U02	14		13											
	3/8	KAH06-U03	17		17.5						11.5	16				
10	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	27				
	3/8	KAH08-U03	17		19.5						13.5	33				
12	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	17						
	1/4	KAH10-U02	17		22											
	3/8	KAH10-U03	17		24						18	14				
12	1/2	KAH10-U04	22	19	22	14	22	46.1	46.1	28						
	1/4	KAH12-U02	19		30.5						24.5	22				
	3/8	KAH12-U03	19		25.5						19.5	16				
	1/2	KAH12-U04	22	24.5	16.5	22	46.1	46.1	28							

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>



Male elbow: KAL

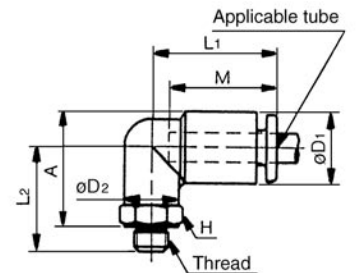
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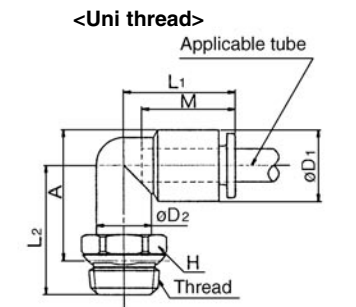
Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)							
										Soft nylon	Polyurethane								
3.2	M5	KAL23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	6							
	M6	KAL23-M6	8				15.5												
	1/8	KAL23-U01	10				19.5						21	8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

* Reference dimensions after Uni thread installation.

<M5, M6>



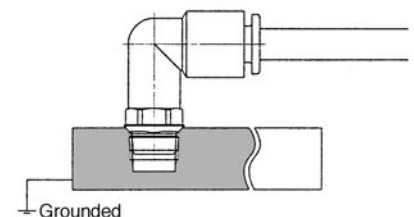
<Uni thread>



⚠ Precautions


⚠ Caution

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

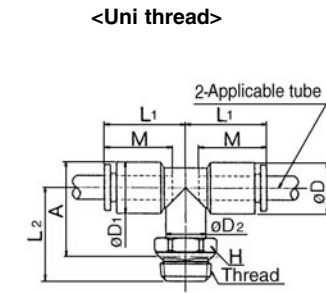
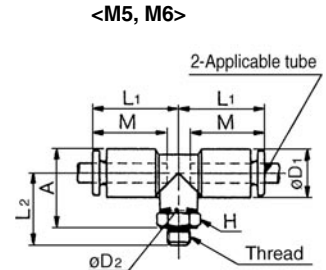


Series KA


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	Polyurethane			
	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					8		
			1/8	KAT23-U01	10				19.5					21	9	
	4			M5	KAT04-M5	8	10.4	8	18	15.5	17	16	4.3	4.3	6	
				M6	KAT04-M6	8				16					6	
				1/8	KAT04-U01	10				20					21.5	9
				1/4	KAT04-U02	14				22					21.5	15
				M5	KAT06-M5	8				16					18	4.3
	6			M6	KAT06-M6	8	12.8	10	20	16.5	23.5	17	13.9	13.9	10	
1/8				KAT06-U01	10	21.5				23					16	
1/4				KAT06-U02	14	23				24					25	
8			3/8	KAT06-U03	17	15.2	12	23	24	26	18.5	18.2	18.2	25		
			1/8	KAT08-U01	12				22.5					26	14	
			1/4	KAT08-U02	14				24.5					26	19	
			3/8	KAT08-U03	17				25.5					27	27	
			1/8	KAT10-U01	17				25					29.5	30	
10			1/4	KAT10-U02	17	18.5	17	26.5	26.5	30	21	29.0	29.0	27		
			3/8	KAT10-U03	17				27					30.5	31	
			1/2	KAT10-U04	22				30					31.5	51	
			1/4	KAT12-U02	17				27					31.5	31	
12			3/8	KAT12-U03	17	20.9	17	28.5	28	32.5	22	45.2	45.2	34		
			1/2	KAT12-U04	22				31					33.5	54	

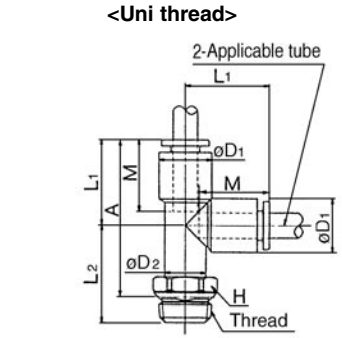
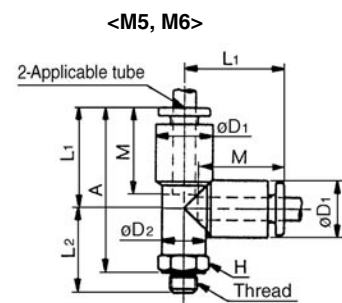
* Reference dimensions after Uni thread installation.





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	Polyurethane				
	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					33	9		
			1/8	KAY23-U01	10				19.5					33	9		
	4			M5	KAY04-M5	8	10.4	8	18	15.5	29.5	16	4.6	4.6	6		
				M6	KAY04-M6	8				16					6		
				1/8	KAY04-U01	10				20					34	9	
				1/4	KAY04-U02	14				22					34.5	15	
				M5	KAY06-M5	8				20					16	4.6	4.6
	6			M6	KAY06-M6	8	12.8	10	20	20.5	16.5	17	13.4	13.4	10		
1/8				KAY06-U01	10	21.5				37.5					16		
1/4				KAY06-U02	14	23				37					25		
8			3/8	KAY06-U03	17	15.2	12	23	24	38	18.5	17.7	17.7	25			
			1/8	KAY08-U01	12				22.5					41.5	14		
			1/4	KAY08-U02	14				24.5					41.5	18		
10			3/8	KAY08-U03	17	18.5	17	26.5	25.5	42.5	21	28.4	28.4	27			
			1/8	KAY10-U01	17				25					46.5	30		
			1/4	KAY10-U02	17				26.5					47.5	27	48	31
			3/8	KAY10-U03	17				27					48	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					49.5	31		
			3/8	KAY12-U03	17				28					50.5	35		
			1/2	KAY12-U04	22				31	51.5				55			

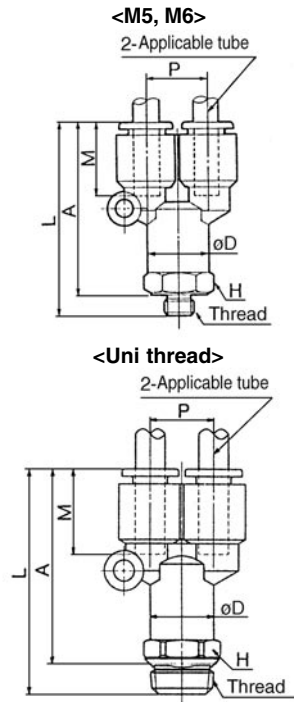
* Reference dimensions after Uni thread installation.




Branch: KAU

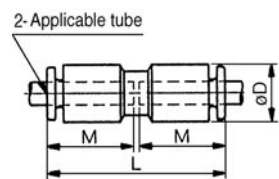
	Tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD	L	P	A*	M	Effective area (mm ²)		Weight (g)
										Soft nylon	Polyurethane	
<M5, M6> 	3.2	M5	KAU23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9
		M6	KAU23-M6			38.5				2.2	2.2	
		1/8	KAU23-U01	11	3.4	2.9	11					
<Uni thread> 	4	M5	KAU04-M5	11	10.4	39.5	10.4	36	16	2.2	2.2	4
		M6	KAU04-M6			40				4.2	4.2	10
		1/8	KAU04-U01	14	4.2	4.2	11					
		1/4	KAU04-U02	14	4.2	4.2	16					
<Uni thread>	6	M5	KAU06-M5	13	12.8	42.5	12.8	39	17	2.2	2.2	12
		M6	KAU06-M6			43				13.4	13.4	13
	1/8	KAU06-U01	14	45	39	17						
	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	46.5	18.5	17.7	17.7	26
		1/4	KAU08-U02			52						46
		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
12	1/4	KAU12-U02	22	20.9	61	20.9	55	22	45.4	45.4	53	
	3/8	KAU12-U03			62.5						54.5	52
	1/2	KAU12-U04	22	62.5	54.5	52						

* Reference dimensions after Uni thread installation.




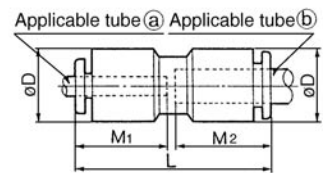
Straight union: KAH

	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)
	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

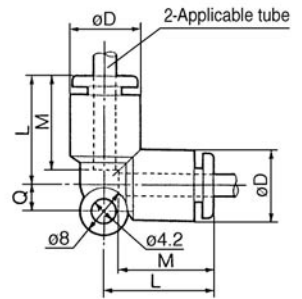


Series KA

Union elbow: KAL



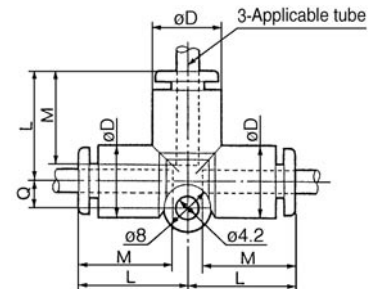
Tube O.D. (mm)	Part No.	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Polyurethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12	KAL12-00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



Branch tee: KAT



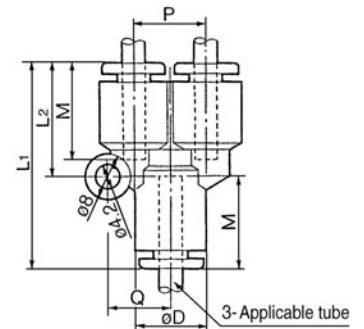
Tube O.D. (mm)	Part No.	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Polyurethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25
12	KAT12-00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

