

One-touch loading and unloading

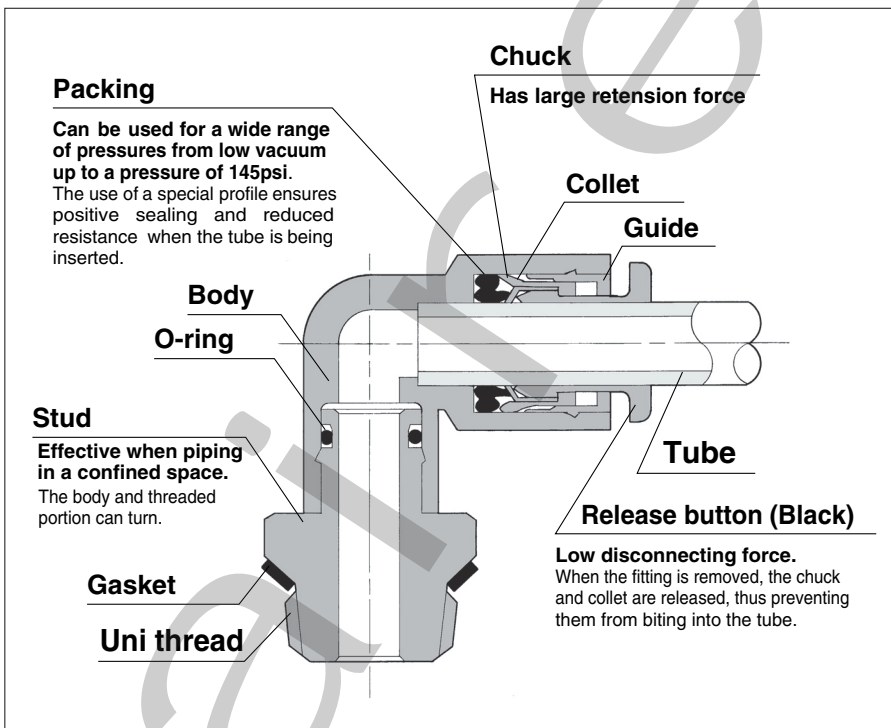
Possible to use in vacuum (Max. 10 Torr)

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.



Principal Element Material

Body	C3604BD·PBT
Stud	C3604BD
Chuck	SUS304
Guide	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-0)
- Conductive NBR (10^4 to $10^7 \Omega$) is used for packing.

Applicable Tube

Tube material	Antistatic soft nylon, Polyurethane
Tube O.D.	$\phi 3.2, \phi 4, \phi 6, \phi 8, \phi 10, \phi 12$

Specifications

Operating fluid	Air
Max. operating pressure	145psi {1.0MPa}
Max. operating vacuum pressure	1.3KPa {10Torr}
Proof pressure	435psi {3.0MPa}
Ambient and fluid temperature	32° to 140°F {0 to 40°C}
Thread	Uni thread JISB0209, class2 (Metric coarse screw thread)
Sealant (Thread portion)	Gasket
Copper-free application	C3604BD parts with electroless nickel plating
Surface resistance	10^4 to $10^7 \Omega$



Series KA

Antistatic One-touch Fittings

Half Union: KAH

M5, M6



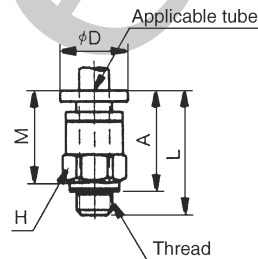
Uni thread



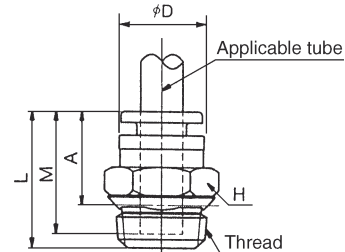
Applicable tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD	L	A*	M	Effective orifice (mm ²)		Weight (g)			
								Soft nylon	Polyurethane				
3.2	M5×0.8	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1			
	M6×1.0	KAH23-M6	8		17.5								
	1/8	KAH23-U01	10		12.5						8.5		
4	M5×0.8	KAH04-M5	8	9.5	17	14	13	4	4	2			
	M6×1.0	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	M5×0.8	KAH06-M5	10	11.5	18.5	15	14	4	4	3			
	M6×1.0	KAH06-M6			19								
	1/8	KAH06-U01	12		19.5	14.5				17	13.1	13.1	5
	1/4	KAH06-U02	14		17	13							10
	3/8	KAH06-U03	17		17.5	11.5				17	18.5	18.0	18.0
1/8	KAH08-U01	14	25	20.5	11								
1/4	KAH08-U02		21.5	15.5	27								
3/8	KAH08-U03	17	19.5	13.5	33								
10	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	17			
	1/4	KAH10-U02			24	18				22			
	3/8	KAH10-U03			24	18				14			
	1/2	KAH10-U04			22	22				14	28		
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			24.5	16.5				28			

*Reference dimensions after Uni thread installation.

M5, M6

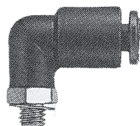


Uni thread

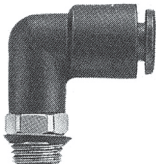


Elbow Union: KAL

M5, M6



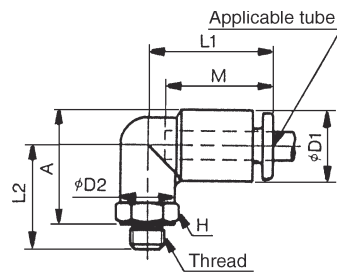
Uni thread



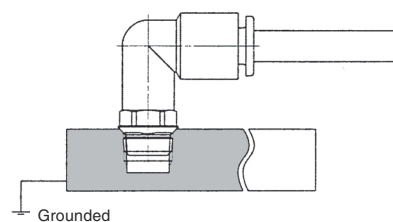
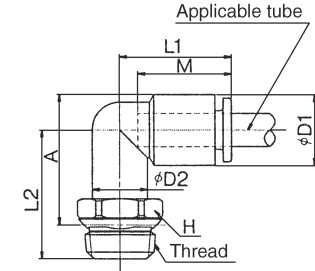
Applicable tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD1	øD2	L1	L2	A*	M	Effective orifice (mm ²)		Weight (g)			
										Soft nylon	Polyurethane				
3.2	M5×0.8	KAL23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	6			
	M6×1.0	KAL23-M6					15.5					21	7		
	1/8	KAL23-U01					10					19.5	21	8	
4	M5×0.8	KAL04-M5	8	10.4	10	18	15.5	16	16	3.5	3.5	4			
	M6×1.0	KAL04-M6					16					16	5		
	1/8	KAL04-U01	10				20	20.5				17	11.4	11.4	8
	1/4	KAL04-U02	14				22	21.5							14
6	M5×0.8	KAL06-M5	8	12.8	10	20	16	18	17	3.5	3.5	6			
	M6×1.0	KAL06-M6					16.5					18	5		
	1/8	KAL06-U01	10				21.5	23.5				17	11.4	11.4	9
	1/4	KAL06-U02	14				23	24.5							15
	3/8	KAL06-U03	17				24	24.5				17	18.5	14.9	14.9
1/8	KAL08-U01	12	22.5	25.5	11										
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			
	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	39.7	23			
	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



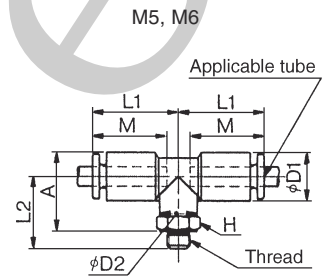
Antistatic One-touch Fittings

Series KA

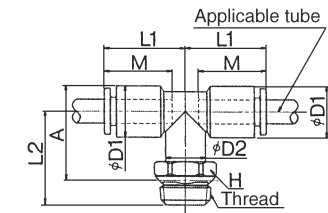
Union Tee: KAT

Applicable tube O.D. (mm)	Connection thread	Part No.	H (Hex.)	øD1	øD2	L1	L2	A*	M	Effective orifice(mm ²)		Weight (g)	
										Soft nylon	Polyurethane		
3.2	M5×0.8	KAT23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	8	
	M6×1.0	KAT23-M6	10				15.5						
	1/8	KAT23-U01	10				19.5						21
4	M5×0.8	KAT04-M5	8	10.4	8	18	15.5	17	16	4.3	4.3	6	
	M6×1.0	KAT04-M6	10				16						
	1/8	KAT04-U01	10				20						21.5
6	M5×0.8	KAT06-M5	8	12.8	8	20	16	18	17	4.3	4.3	8	
	M6×1.0	KAT06-M6	10				16.5						
	1/8	KAT06-U01	10				21.5						23.5
8	1/8	KAT08-U03	17	15.2	12	23	24	26	18.5	18.2	18.2	15	
	1/4	KAT08-U02	14				24.5						
	3/8	KAT08-U03	17				25.5						27
10	1/8	KAT10-U01	17	18.5	17	26.5	25	29.5	21	29.0	29.0	27	
	1/4	KAT10-U02	17				26.5						30
	3/8	KAT10-U03	17				27						30.5
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.



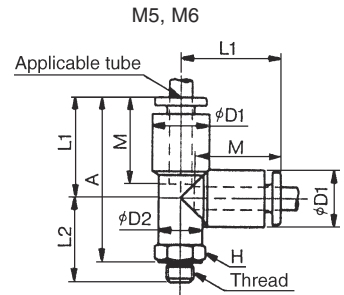
Uni thread



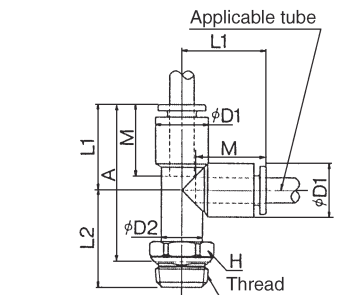
Male Run Tee: KAY

Applicable tube O.D. (mm)	Connection thread	Part No.	H (Hex.)	øD1	øD2	L1	L2	A*	M	Effective orifice(mm ²)		Weight (g)		
										Soft nylon	Polyurethane			
3.2	M5×0.8	KAY23-M5	8	9.6	8	17.5	15	28.5	15.5	3.4	2.9	8		
	M6×1.0	KAY23-M6	10				15.5							
	1/8	KAY23-U01	10				19.5						33	
4	M5×0.8	KAY04-M5	8	10.4	8	18	15.5	29.5	16	4.6	4.6	6		
	M6×1.0	KAY04-M6	10				18.5						16	
	1/8	KAY04-U01	10				20						34	
6	1/4	KAY04-U02	14	10	18	22	34.5	17	13.4	13.4	13.4	26		
	M5×0.8	KAY06-M5	8				20						16	32
	M6×1.0	KAY06-M6	10				20.5						16.5	37.5
8	1/8	KAY06-U01	10	12.8	10	20	21.5	37	18.5	17.7	17.7	19		
	1/4	KAY06-U02	14				23						37	
	3/8	KAY06-U03	17				24						38	
10	1/8	KAY08-U01	12	15.2	12	23	22.5	41.5	21	28.4	28.4	31		
	1/4	KAY08-U02	14				24.5						41.5	
	3/8	KAY08-U03	17				25.5						42.5	
12	1/8	KAY10-U01	17	18.5	17	26.5	25	46.5	22	45.4	45.4	35		
	1/4	KAY10-U02	17				26.5						47.5	
	3/8	KAY10-U03	17				27						48	
12	1/2	KAY10-U04	22	20.9	17	28.5	30	49	22	45.4	45.4	55		
	1/4	KAY12-U02	17				27						49.5	
	3/8	KAY12-U03	17				28						50.5	
1/2	KAY12-U04	22	31	51.5										

*Reference dimensions after Uni thread installation.



Uni thread



Series KA

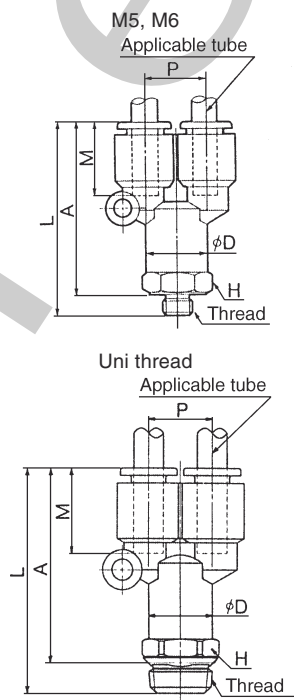
Antistatic One-touch Fittings

Branch: KAU



Applicable tube O.D. (mm)	Connection thread M thread Uni thread	Part No.	H (Hex.)	øD	L	P	A*	M	Effective orifice (mm ²)		Weight (g)
									Soft nylon	Polyurethane	
3.2	M5×0.8	KAU23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9
	M6×1.0	KAU23-M6			38.5				3.4	2.9	11
	1/8	KAU23-U01			11				4	10	11
4	M5×0.8	KAU04-M5	11	10.4	39.5	10.4	36	16	2.2	2.2	4
	M6×1.0	KAU04-M6			40				4.2	4.2	10
	1/8	KAU04-U01			11				11	11	11
	1/4	KAU04-U02			14				16	16	16
6	M5×0.8	KAU06-M5	13	12.8	42.5	12.8	39	17	2.2	2.2	13
	M6×1.0	KAU06-M6			43				14	14	14
	1/8	KAU06-U01			13				14	14	14
	1/4	KAU06-U02			14				18	18	18
	3/8	KAU06-U03			17				26	26	26
8	1/8	KAU08-U01	17	15.2	50.5	15.2	46	18.5	17.7	17.7	27
	1/4	KAU08-U02			52				25	25	25
	3/8	KAU08-U03			51.5				28	28	28
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				36	36	36
	1/2	KAU10-U04			22				51	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				52	52	52
	1/2	KAU12-U04			22				54.5	54.5	54.5

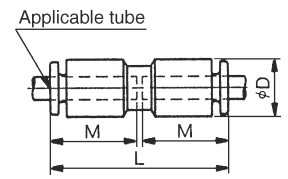
*Reference dimensions after Uni thread installation.



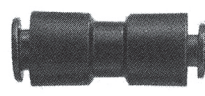
Straight Union: KAH



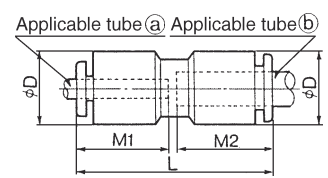
Applicable tube O.D. (mm)	Part No.	øD	L	M	Effective orifice (mm ²)		Weight (g)
					Soft nylon	Polyurethane	
3.2	KAH23-00	9.6	31.5	15.5	3.4	2.9	3
4	KAH04-00	10.4	32.5	16	5.6	5.6	3
6	KAH06-00	12.8	34.5	17	13.1	13.1	5
8	KAH08-00	15.2	38.5	18.5	18.0	18.0	7
10	KAH10-00	18.5	42.5	21	29.5	29.5	11
12	KAH12-00	20.9	44.5	22	46.1	46.1	14



Different Dia. Straight: KAH



Applicable tube O.D. (mm)		Part No.	øD	L	M1	M2	Effective orifice (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	5
6	8	KAH06-08	15.2	38.5	17	18.5	10.7	10.7	7
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

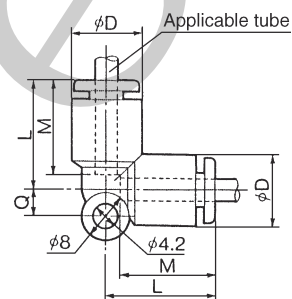


Antistatic One-touch Fittings

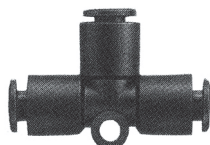
Union Elbow: KAL



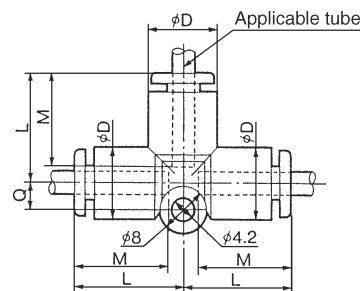
Applicable tube O.D. (mm)	Part No.	øD	L	Q	M	Effective orifice (mm ²)		Weight (g)
						Soft nylon	Polyurethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	7
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	11
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12	KAL12-00	20.9	28.5	7.5	22	39.7	39.7	21



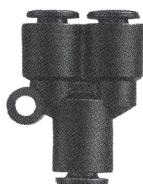
Branch Tee: KAT



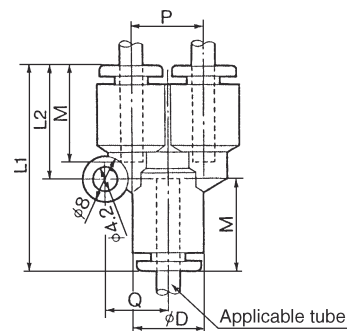
Applicable tube O.D. (mm)	Part No.	øD	L	Q	M	Effective orifice (mm ²)		Weight (g)
						Soft nylon	Polyurethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	8
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	11
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	16
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25
12	KAT12-00	20.9	28.5	7.5	22	45.4	45.4	29



Branch "Y": KAU



Applicable tube O.D. (mm)	Part No.	øD	L1	L2	P	Q	M	Effective orifice (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	8
6	KAU06-00	12.8	37	20	12.8	11.7	17	13.4	13.4	10
8	KAU08-00	15.2	42.5	24.5	15.2	13.7	18.5	17.7	17.7	12
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



Applicable tube O.D. (mm)	Applicable fitting size ød	Part No.	øD	L	A	M	Effective orifice (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	2.1
4	8	KAR04-08	10.4	36.5	18				3.6
	6	8	KAR06-08	12.8	37	18.5	17	13.1	13.1
10		KAR06-10	12.8	39.5	20	3.5			
8	10	KAR08-10	15.2	41	20	18.5	18.0	18.0	5.2
	12	KAR08-12	15.2	42	20				5.1
10	12	KAR10-12	17	42	20	21	32.8	32.8	33

