

Antistatic One-touch Fittings

Applicable Tubing: Metric Size/Connection Thread: M, Rc, G, NPT, NPTF

KA Series



One-touch fitting with antistatic prevention.

One-touch IN/OUT connection.

Possible to use from vacuum (-100 kPa).

Brass parts are electroless nickel plated.

Flame resistance (Equivalent to UL-94 standard, material V-0)

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

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



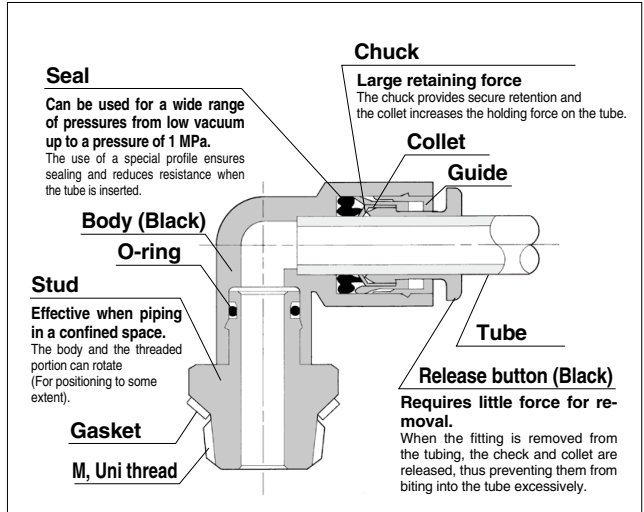
Principal Parts Material

Body	C3604, PBT
Stud	C3604
Chuck	Stainless steel 304
Guide	C3604, PBT
Collet, Release button	PBT
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR

- C3604 is all electroless nickel plated.
- PBT parts have conductive (10^4 to $10^7 \Omega$) and flame resistant applications. (UL-94 standard, V-0)
- Conductive NBR (10^4 to $10^7 \Omega$) is used for seals.

Gasket (Thread portion)

Model M-5G2 (For M5 thread)
M-6G (For M6 thread)
KQG-U□□ (For Uni thread)



Applicable Tubing

Tubing material	Antistatic soft nylon, Antistatic polyurethane
Tubing O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12

Specifications

Fluid	Air
Operating pressure range	-100 kPa to 1 MPa
Proof pressure	3 MPa
Ambient and fluid temperature	0 to 40°C
Thread	Uni thread
Seal (Thread portion)	Gasket
Copper-free	Brass parts are all electroless nickel plated.
Surface resistance	10^4 to $10^7 \Omega$

How to Order Gasket for Uni Thread

KQG-U01



Gasket for Uni thread

Applicable port size

Symbol	Size
U01	Uni 1/8
U02	Uni 1/4
U03	Uni 3/8
U04	Uni 1/2

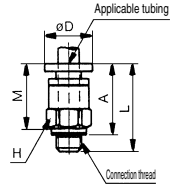
KA Series

Male Connector: KAH

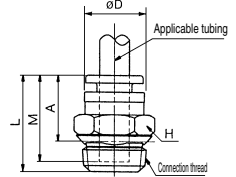
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	A*	M	Effective area (mm ²)		Weight (g)
									Soft nylon	Urethane	
	3.2	M5 x 0.8	KAH23-M5	7	7	17	14	13	3.4	2.9	2.1
		M6 x 1	KAH23-M6	8	8.5	17.5	14				
		1/8	KAH23-U01	10	10	12.5	8.5				
	4	M5 x 0.8	KAH04-M5	8	9.5	17	14	13	4	4	2
		M6 x 1	KAH04-M6	8	10	17.5	14				
		1/8	KAH04-U01	10	10	18.5	13.5				
		1/4	KAH04-U02	14	14	16.5	10.5				
		3/8	KAH04-U03	17	17	19.5	13.5				
6	6	M5 x 0.8	KAH06-M5	10	11.5	18.5	15	14	4	4	3
		M6 x 1	KAH06-M6	10	12	19	15				
		1/8	KAH06-U01	12	12	19.5	14.5				
8	8	1/4	KAH08-U02	14	14	21.5	15.5	18.5	18.0	18.0	27
		3/8	KAH08-U03	17	17	19.5	13.5				
		1/2	KAH08-U04	22	22	24	18				
10	10	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	14
		1/4	KAH10-U02	17	17	22	18				
		3/8	KAH10-U03	17	17	24	18				
		1/2	KAH10-U04	22	22	22	14				
		3/8	KAH12-U03	19	19	30.5	24.5				
12	12	1/4	KAH12-U02	19	19	25.5	19.5	22	46.1	46.1	16
		3/8	KAH12-U03	19	19	24.5	16.5				
		1/2	KAH12-U04	22	22	24.5	16.5				

* Reference dimensions after Uni thread installation.


<M5, M6>



<Uni thread>

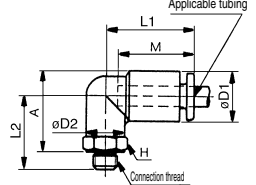


Male Elbow: KAL

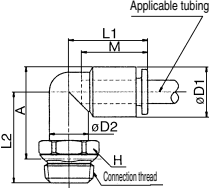
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)
											Soft nylon	Urethane	
	3.2	M5 x 0.8	KAL23-M5	8	8	8	15	16	15.5	3.4	2.9	6	
		M6 x 1	KAL23-M6	8	9.6	10	15.5	16					
		1/8	KAL23-U01	10	10	19.5	21						
4	4	M5 x 0.8	KAL04-M5	8	8	8	15.5	16	16	3.5	3.5	4	
		M6 x 1	KAL04-M6	8	10.4	10	16	16					
		1/8	KAL04-U01	10	10	20	20.5	20					
		1/4	KAL04-U02	14	14	22	21.5	21.5					
		3/8	KAL04-U03	17	17	24	23	23					
6	6	M5 x 0.8	KAL06-M5	8	8	8	16	18	17	3.5	3.5	6	
		M6 x 1	KAL06-M6	8	12.8	10	16.5	18					
		1/8	KAL06-U01	10	10	21.5	23.5	23.5					
8	8	1/4	KAL06-U02	14	14	10	23	24	18.5	14.9	14.9	11	
		3/8	KAL06-U03	17	17	24	24.5	24.5					
		1/2	KAL06-U04	22	22	25.5	27	27					
10	10	1/8	KAL08-U01	12	12	12	22.5	25.5	21	25.0	25.0	23	
		1/4	KAL08-U02	14	15.2	12	23	24.5					
		3/8	KAL08-U03	17	17	23	24.5	26					
		1/2	KAL10-U04	22	22	26.5	30	30					
		3/8	KAL10-U03	17	18.5	17	26.5	30					
12	12	1/4	KAL12-U02	17	17	17	27	31.5	22	39.7	39.7	25	
		3/8	KAL12-U03	17	20.9	17	28	31.5					
		1/2	KAL12-U04	22	22	28.5	28	32.5					
		3/8	KAL12-U03	17	17	28.5	28	32.5					
		1/2	KAL12-U04	22	22	31	31.5	33.5					

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>

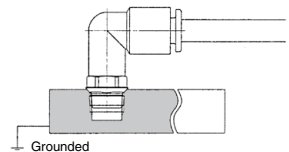


⚠ Precautions

Be sure to read this before handling the products.
Refer to page 11 for safety instructions and pages 14 to 18 for fittings and tubing precautions.

⚠ Caution

1. Female thread portion connected with fitting must be grounded, otherwise static electricity will remain in the fittings and tubes.

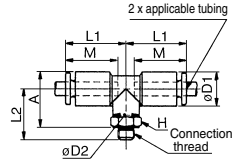


Male Branch Tee: KAT

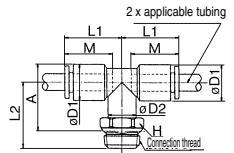
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)				
											Soft nylon	Urethane					
	3.2	M5 x 0.8	KAT23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	8				
		M6 x 1	KAT23-M6	8				15.5									
		1/8	KAT23-U01	10				19.5						21			
4	M5 x 0.8	M6 x 1	Uni thread	8	10.4	8	18	15.5	16	20	4.3	4.3	6				
								1/8						KAT04-M5	16		
								1/4						KAT04-U01	20	21.5	
								1/4						KAT04-U02	14	22	
6	M5 x 0.8	M6 x 1	Uni thread	8	12.8	8	20	16	18	16.5	4.3	4.3	7				
								1/8						KAT06-M5	8		
								1/4						KAT06-U01	10	21.5	
								1/4						KAT06-U02	14	23	
8	1/8	1/4	3/8	KAT06-U03	17	24	24.5	24	24.5	18.5	18.2	18.2	14				
													1/8	KAT08-U01	12	22.5	26
													1/4	KAT08-U02	14	24.5	26
													3/8	KAT08-U03	17	25.5	27
10	1/8	1/4	3/8	KAT10-U01	17	18.5	17	26.5	27	30.5	29.0	29.0	30				
													1/4	KAT10-U02	17	25	29.5
													3/8	KAT10-U03	17	26.5	30
													1/2	KAT10-U04	22	27	30.5
													1/4	KAT12-U02	17	27	31.5
12	3/8	1/2	KAT12-U03	17	20.9	17	28.5	28	32.5	22	45.2	45.2	31				
													1/2	KAT12-U04	22	31	33.5

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>

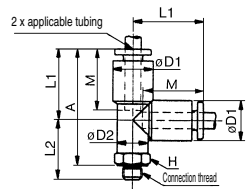


Male Run Tee: KAY

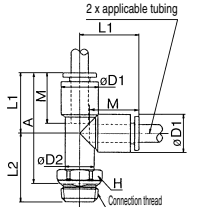
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)				
											Soft nylon	Urethane					
	3.2	M5 x 0.8	KAY23-M5	8	9.6	8	17.5	15	28.5	15.5	3.4	2.9	8				
		M6 x 1	KAY23-M6	8				15.5									
		1/8	KAY23-U01	10				19.5						33			
4	M5 x 0.8	M6 x 1	Uni thread	8	10.4	8	18	15.5	16	16	4.6	4.6	6				
								1/8						KAY04-M5	18	18.5	
								1/4						KAY04-U01	10	20	34
								1/4						KAY04-U02	14	22	34.5
6	M5 x 0.8	M6 x 1	Uni thread	8	12.8	8	20	16	18	16.5	4.6	4.6	7				
								1/8						KAY06-M5	8		
								1/4						KAY06-U01	10	21.5	37.5
								1/4						KAY06-U02	14	23	37
8	1/8	1/4	3/8	KAY06-U03	17	24	24	38	18.5	17.7	17.7	17.7	25				
													1/8	KAY08-U01	12	22.5	41.5
													1/4	KAY08-U02	14	24.5	41.5
													3/8	KAY08-U03	17	25.5	42.5
10	1/8	1/4	3/8	KAY10-U01	17	18.5	17	26.5	27	48	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
													1/4	KAY12-U02	17	27	49.5
12	3/8	1/2	KAY12-U03	17	20.9	17	28.5	28	50.5	22	45.4	45.4	31				
													1/2	KAY12-U04	22	31	51.5

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>








<Uni thread>

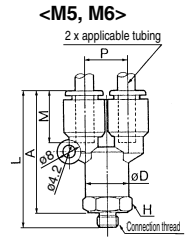


KA Series

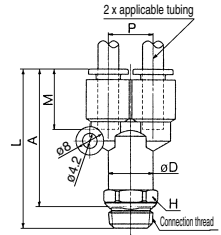
Branch "Y": KAU

<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	P	A*	M	Effective area (mm ²)		Weight (g)
										Soft nylon	Urethane	
	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	KAU23-M6							38.5	3.4	2.9
		1/6	KAU23-U01	11	39.5	4						
	4	M5 x 0.8	KAU04-M5	11	10.4	40	10.4	36	16	2.2	2.2	10
		M6 x 1	KAU04-M6							11	4.2	4.2
		1/6	KAU04-U01	14	42	17	25					
		1/4	KAU04-U02	14	42	17	26					
		1/2	KAU04-U03	17	46	20	27					
	6	M5 x 0.8	KAU06-M5	13	12.8	43.5	12.8	39.5	17	2.2	2.2	12
		M6 x 1	KAU06-M6							13	43	13.4
		1/6	KAU06-U01	14	45	17	25					
		1/4	KAU06-U02	14	45	17	26					
		3/6	KAU06-U03	17	46	20	27					
		1/2	KAU06-U04	17	50.5	21	28					
	8	M6 x 1	KAU08-M6	17	15.2	52	15.2	46	18.5	17.7	17.7	24
		1/4	KAU08-U02							17	46	27
		3/6	KAU08-U03	17	51.5	20	28					
		1/2	KAU08-U04	19	57.5	21	29					
		1/4	KAU10-U02	19	57.5	21	29					
	10	M6 x 1	KAU10-M6	22	20.9	61	20.9	55	22	45.4	45.4	52
		1/4	KAU12-U02							22	61	22
		3/6	KAU12-U03	22	62.5	22	45.4	45.4	52			
		1/2	KAU12-U04	22	62.5	22	45.4	45.4	52			

* Reference dimensions after Uni thread installation.

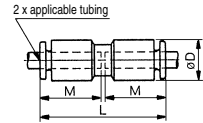


<Uni thread>



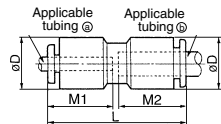
Straight Union: KAH

Applicable tubing O.D. (mm)	Model	øD	L	M	Effective area (mm ²)		Weight (g)
					Soft nylon	Urethane	
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

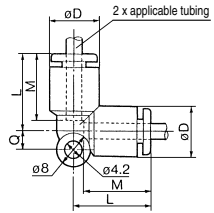
Applicable tubing O.D. (mm)		Model	øD	L	M1	M2	Effective area (mm ²)		Weight (g)
Ⓐ	Ⓑ						Soft nylon	Urethane	
3.2	4	KAH23-04	10.4	32.5	15.5	16	3.2	2.7	3
4	6	KAH04-06	12.8	34.5	16	17	4.2	4.2	4
6	8	KAH06-08	15.2	38.5	17	18.5	10.7	10.7	6
8	10	KAH08-10	18.5	42	18.5	21	16.7	16.7	11
10	12	KAH10-12	20.9	44.5	21	22	28.2	28.2	14



Union Elbow: KAL



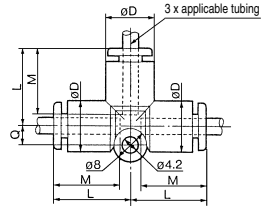
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12	KAL12-00	20.9	28.5	7.5	22	39.7	39.7	21



Union Tee: KAT



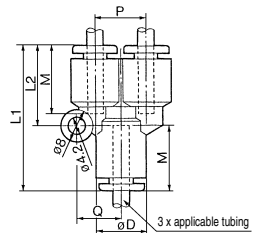
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25
12	KAT12-00	20.9	28.5	7.5	22	45.4	45.4	29



Union "Y": KAU



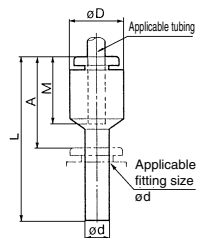
Applicable tubing O.D. (mm)	Model	øD	L1	L2	P	Q	M	Effective area (mm ²)		Weight (g)
								Soft nylon	Urethane	
3.2	KAU23-00	9.6	33	17.5	9.6	9	15.5	3.4	2.9	5
4	KAU04-00	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	KAU06-00	12.8	37	20	12.8	11.7	17	13.4	13.4	9
8	KAU08-00	15.2	42.5	24.5	15.2	13.7	18.5	17.7	17.7	11
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



Applicable tubing O.D. (mm)	Applicable fitting size ød	Model	øD	L	A	M	Effective area (mm ²)		Weight (g)
							Soft nylon	Urethane	
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	23	21	32.8	32.8	33



1. Connecting products with metal rods

Products with metal rods cannot be connected to KQ2 series One-touch fittings. If connected, the metal rod cannot be retained by the chuck of the One-touch fitting and products with metal rods may project during pressurization, causing serious personal injury or accident.

2. Mounting/Piping precautions

Do not press the release button unnecessarily when the One-touch fitting is not yet connected to tubing, etc. This may result in damage to the fitting or the fitting coming off.