

Antistatic One-touch Fittings

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

KA Series

RoHS

One-touch fitting with antistatic prevention.

One-touch IN/OUT connection.

Possible to use from vacuum (-100 kPa).

Can be used in copper-free application.

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

Surface resistance 10⁴ to 10⁷ Ω

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



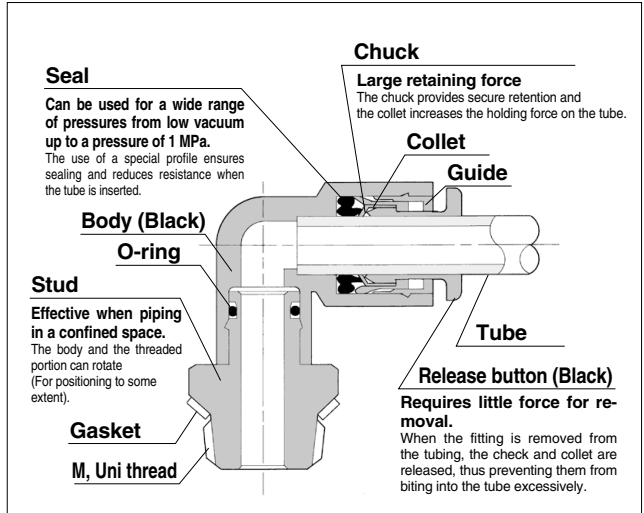
Principal Parts Material

Body	C3604, PBT
Stud	C3604
Chuck	Stainless steel 304
Guide	Stainless steel 304, 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 (10⁴ to 10⁷ Ω) and flame resistant applications. (UL-94 standard, V-0)
- Conductive NBR (10⁴ to 10⁷ Ω) 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 JIS B 0209 (Metric coarse thread)
Seal (Thread portion)	Gasket
Copper-free	Brass parts are all electroless nickel plated.
Surface resistance	10 ⁴ to 10 ⁷ Ω

How to Order Gasket for Uni Thread

KQG-U01

Gasket for Uni thread

Applicable port size

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

KQ2
KQB2
KS
KX
KM
KF
M
H/DL
L/LL
KC
KK
KK130
DM
KDM
KB
KR
KA
KQG2
KG
KFG2
MS
KKA
KP
LQ
MQR
T
IDK

KA Series

Male Connector: KAH

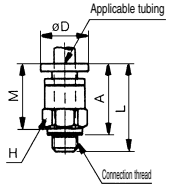
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	A*	M	Effective area (mm ²)		Weight (g)	
									Soft nylon	Urethane		
3.2	M5 x 0.8	M6 x 1	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1	
			KAH23-M6	8								
			KAH23-U01	10								
4	M5 x 0.8	M6 x 1	KAH04-M5	8	9.5	17	14	13	4	4	2	
			KAH04-U01	10								
			KAH04-M6	8								
	1/8	KAH04-U01	1/4	KAH04-U01	10	10	18.5	13.5	16	5.6	5.6	5
				KAH04-U02	14							
				KAH04-U02	14							
6	M5 x 0.8	M6 x 1	KAH06-M5	10	11.5	18.5	15	14	4	4	3	
			KAH06-M6	10								
			KAH06-U01	12								
1/8	KAH06-U01	1/4	KAH06-U01	12	12	19.5	14.5	17	13.1	13.1	5	
			KAH06-U02	14								
			KAH06-U03	17								
8	1/8	KAH08-U01	KAH08-U01	14	14	25	20.5	18.5	18.0	18.0	11	
			KAH08-U02	14								
			KAH08-U03	17								
10	1/8	KAH10-U01	KAH10-U01	17	17	28	23	21	29.5	29.5	17	
			KAH10-U02	17								
			KAH10-U03	17								
	1/4	KAH10-U02	1/2	KAH10-U02	22	22	24	18	21	29.5	29.5	14
				KAH10-U04	22							
				KAH10-U04	22							
12	1/4	KAH12-U02	KAH12-U02	19	19	30.5	24.5	22	46.1	46.1	22	
			KAH12-U03	19								
			KAH12-U03	19								
1/2	KAH12-U04	1/2	KAH12-U04	22	22	24.5	16.5	22	46.1	46.1	16	
			KAH12-U04	22								

* Reference dimensions after Uni thread installation.

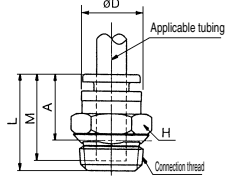
<Uni thread>



<M5, M6>



<Uni thread>



Male Elbow: KAL

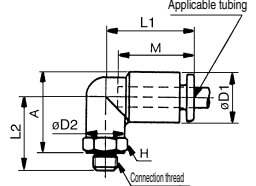
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)
											Soft nylon	Urethane	
3.2	M5 x 0.8	M6 x 1	KAH23-M5	8	9.6	8	15	16	15.5	15.5	3.4	2.9	6
			KAH23-M6	8									
			KAH23-U01	10									
4	M5 x 0.8	M6 x 1	KAH04-M5	8	10.4	8	15.5	16	16	16	3.5	3.5	4
			KAH04-M6	8									
			KAH04-U01	10									
	1/8	KAH04-U01	1/4	KAH04-U01	10	10	20	20.5	22	21.5	4.2	4.2	8
				KAH04-U02	14								
				KAH04-U02	14								
6	M5 x 0.8	M6 x 1	KAH06-M5	8	12.8	8	16	18	18	17	3.5	3.5	6
			KAH06-M6	8									
			KAH06-U01	10									
1/8	KAH06-U01	1/4	KAH06-U01	10	10	21.5	23.5	23.5	23.5	11.4	11.4	15	
			KAH06-U02	14									
			KAH06-U03	17									
8	1/8	KAH08-U01	KAH08-U01	12	15.2	12	23	23	22.5	25.5	14.9	14.9	11
			KAH08-U02	14									
			KAH08-U03	17									
10	1/8	KAH10-U01	KAH10-U01	17	18.5	17	26.5	30	30.5	21	14.9	14.9	24
			KAH10-U02	17									
			KAH10-U03	17									
	1/4	KAH10-U02	1/2	KAH10-U02	22	22	30	31.5	31	31.5	25.0	25.0	25
				KAH10-U04	22								
				KAH10-U04	22								
12	1/4	KAH12-U02	KAH12-U02	17	20.9	17	28.5	28	32.5	22	39.7	39.7	27
			KAH12-U03	17									
			KAH12-U03	17									
1/2	KAH12-U04	1/2	KAH12-U04	22	22	31	33.5	31	33.5	22	39.7	39.7	48
			KAH12-U04	22									

* Reference dimensions after Uni thread installation.

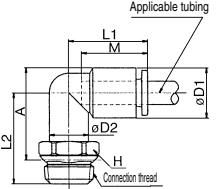
<Uni thread>



<M5, M6>



<Uni thread>

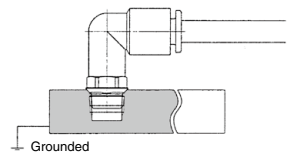


⚠ Precautions







Be sure to read this before handling the products.
Refer to back page 50 for Safety Instructions and pages 13 to 17 for Fittings and Tubing Precautions.

⚠ Caution

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

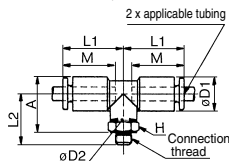


Male Branch Tee: KAT

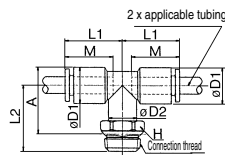
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)
											Soft nylon	Urethane	
	3.2	M5 x 0.8 M6 x 1 1/8	KAT23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	8
			KAT23-M6	8				15.5					
			KAT23-U01	10				19.5					
	4	M5 x 0.8 M6 x 1 1/8 1/4	KAT04-M5	8	10.4	8	18	15.5	16	16	4.3	4.3	6
			KAT04-M6	8				16					
			KAT04-U01	10				20					
			KAT04-U02	14				22					
	6	M5 x 0.8 M6 x 1 1/8 1/4	KAT06-M5	8	12.8	8	20	16	18	16.5	4.3	4.3	7
			KAT06-M6	8				16.5					
			KAT06-U01	10				21.5					
			KAT06-U02	14				23					
	8	M5 x 0.8 M6 x 1 1/8 1/4	KAT08-M5	8	15.2	12	23	22.5	26	24.5	18.2	18.2	14
			KAT08-M6	8				22.5					
			KAT08-U01	12				25.5					
			KAT08-U02	14				27					
	10	M5 x 0.8 M6 x 1 1/8 1/4	KAT10-U01	12	18.5	17	26.5	25	29	26.5	29.0	29.0	19
			KAT10-U02	14				27					
			KAT10-U03	17				28					
			KAT10-U04	22				30					
	12	M5 x 0.8 M6 x 1 1/8 1/4	KAT12-U01	12	20.9	17	28.5	27	31.5	27	45.2	45.2	31
			KAT12-U02	14				28					
			KAT12-U03	17				30					
			KAT12-U04	22				31					

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>



KQ2

KQB2

KS

KX

KM

KF

M

H/DL

L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA

KQG2

KG

KFG2

MS

KKA

KP






LQ

MQR

T

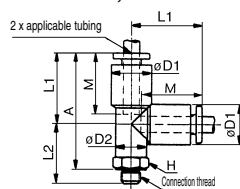
IDK

Male Run Tee: KAY

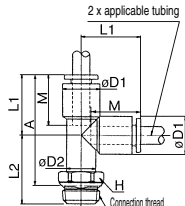
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)
											Soft nylon	Urethane	
	3.2	M5 x 0.8 M6 x 1 1/8	KAY23-M5	8	9.6	8	17.5	15	28.5	15.5	3.4	2.9	8
			KAY23-M6	8				15.5					
			KAY23-U01	10				19.5					
	4	M5 x 0.8 M6 x 1 1/8 1/4	KAY04-M5	8	10.4	8	18	15.5	16	29.5	4.6	4.6	6
			KAY04-M6	8				18.5					
			KAY04-U01	10				20					
			KAY04-U02	14				22					
	6	M5 x 0.8 M6 x 1 1/8 1/4	KAY06-M5	8	12.8	8	20	16	18	16.5	4.6	4.6	7
			KAY06-M6	8				20.5					
			KAY06-U01	10				21.5					
			KAY06-U02	14				23					
	8	M5 x 0.8 M6 x 1 1/8 1/4	KAY08-U01	12	15.2	12	23	22.5	24.5	41.5	17.7	17.7	14
			KAY08-U02	14				25.5					
			KAY08-U03	17				25.5					
			KAY08-U04	22				27					
	10	M5 x 0.8 M6 x 1 1/8 1/4	KAY10-U01	12	18.5	17	26.5	25	29	46.5	28.4	28.4	30
			KAY10-U02	14				26.5					
			KAY10-U03	17				27					
			KAY10-U04	22				30					
	12	M5 x 0.8 M6 x 1 1/8 1/4	KAY12-U01	12	20.9	17	28.5	27	31.5	49.5	45.4	45.4	31
			KAY12-U02	14				28					
			KAY12-U03	17				28					
			KAY12-U04	22				31					

* Reference dimensions after Uni thread installation.

<M5, M6>





<Uni thread>

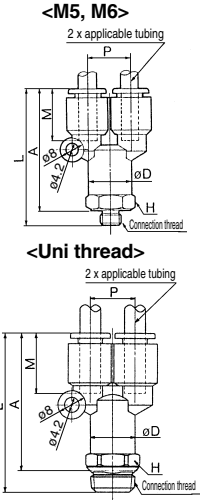


KA Series

Branch "Y": KAU

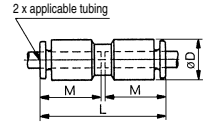
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	P	A*	M	Effective area (mm ²)		Weight (g)
										Soft nylon	Urethane	
	3.2	M5 x 0.8	KAU23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9
		M6 x 1	KAU23-M6							38.5	3.4	2.9
		1/6	KAU23-U01	11	39.5	4						
	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							42	4.2	4.2
		1/6	KAU04-U01	11	42	16						
		1/4	KAU04-U02	14	42	16						
		1/2	KAU04-U03	17	42	16						
6	6	M5 x 0.8	KAU06-M5	13	12.8	52	12.8	39	17	2.2	2.2	12
		M6 x 1	KAU06-M6							43	39.5	13
		1/6	KAU06-U01	14	43	17						
		1/4	KAU06-U02	14	45	17						
		3/8	KAU06-U03	17	46	17						
		1/2	KAU06-U04	17	46	17						
8	8	1/6	KAU08-U01	17	15.2	50.5	15.2	46	18.5	46	46.5	26
		1/4	KAU08-U02							46	45.5	24
		3/8	KAU08-U03	17	51.5	27						
		1/2	KAU08-U04	19	51.5	27						
10	10	1/4	KAU10-U02	19	18.5	57.5	18.5	51.5	21	28.4	28.4	36
		3/8	KAU10-U03							51	51	38
		1/2	KAU10-U04	22	51	51	51	51	51			
12	12	1/4	KAU12-U02	22	20.9	61	20.9	55	22	45.4	45.4	53
		3/8	KAU12-U03							54.5	54.5	53
		1/2	KAU12-U04	22	62.5	54.5	54.5	52				

* Reference dimensions after Uni thread installation.



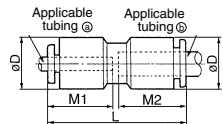
Straight Union: KAH

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

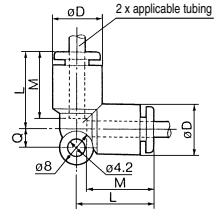
Applicable tubing O.D. (mm)	Model	øD	L	M1	M2	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAH23-04	10.4	32.5	15.5	16	3.2	2.7	3
4	KAH04-06	12.8	34.5	16	17	4.2	4.2	4
6	KAH06-08	15.2	38.5	17	18.5	10.7	10.7	6
8	KAH08-10	18.5	42	18.5	21	16.7	16.7	11
10	KAH10-12	20.9	44.5	21	22	28.2	28.2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



Union Elbow: KAL



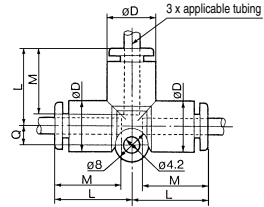
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12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



Union Tee: KAT



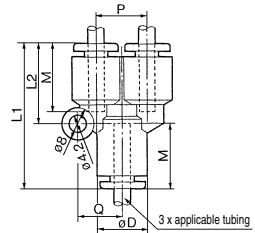
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25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



Union "Y": KAU



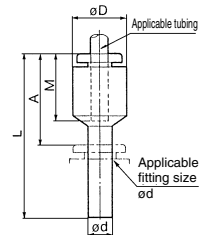
Applicable tubing O.D. (mm)	Model	øD	L1	L2	P	Q	M	Effective area (mm ²)		Weight (g)
								Soft nylon	Urethane	
3.2	KAU23-00	9.6	33	17.5	9.6	9	15.5	3.4	2.9	5
4	KAU04-00	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	KAU06-00	12.8	37	20	12.8	11.7	17	13.4	13.4	9
8	KAU08-00	15.2	42.5	24.5	15.2	13.7	18.5	17.7	17.7	11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

KQ2

KQB2

KS
KX

KM

KF

M

H/DL
L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA

KQ62

KG

KFG2

MS

KKA

KP

LQ

MQR

T

IDK