

Antistatic One-touch Fittings

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

Series KA



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.



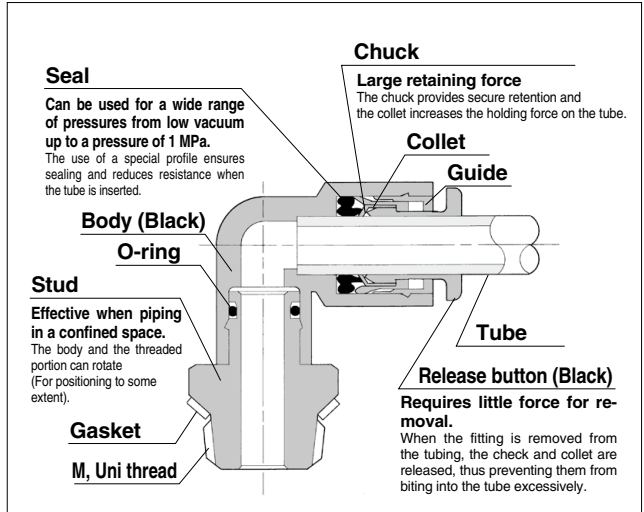
Principal Parts Material

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

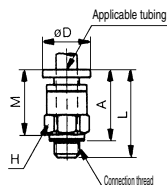
Series KA

Male Connector: KAH

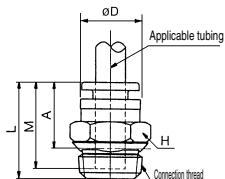
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	A*	M	Effective area (mm ²)		Weight (g)					
									Soft nylon	Urethane						
	3.2	M5 x 0.8	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1					
		M6 x 1	KAH23-M6	8		17.5										
		1/8	KAH23-U01	10		12.5						8.5	4			
	4	M5 x 0.8	KAH04-M5	8	9.5	17	14	13	4	4	2					
		M6 x 1	KAH04-M6	8		17.5										
		1/8	KAH04-U01	10		18.5						13.5	5			
		1/4	KAH04-U02	14		16.5						10.5	10			
		M5 x 0.8	KAH06-M5	10		18.5						15	14	4	4	3
		M6 x 1	KAH06-M6	10		19										
	6	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					
		1/8	KAH08-U01	14		25	20.5				11					
		1/4	KAH08-U02	14		21.5	15.5				27					
		3/8	KAH08-U03	17		19.5	13.5				33					
	8	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	17					
		1/4	KAH10-U02	17		22	14				14					
		3/8	KAH10-U03	17		24	18				28					
		1/2	KAH10-U04	22		22	14				28					
		1/4	KAH12-U02	19		30.5	24.5				22					
		3/8	KAH12-U03	19		25.5	19.5				16					
	12	1/2	KAH12-U04	22	19	24.5	16.5	22	46.1	46.1	28					

* Reference dimensions after Uni thread installation.

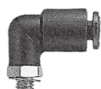




<M5, M6>



<Uni thread>

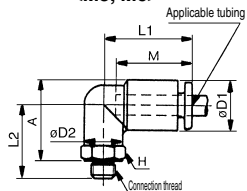


Male Elbow: KAL

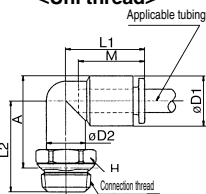
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)									
											Soft nylon	Urethane										
	3.2	M5 x 0.8	KAL23-M5	8	9.6	8	17.5	16	15.5	15.5	3.4	2.9	6									
		M6 x 1	KAL23-M6										7									
		1/8	KAL23-U01										10	19.5	21	8						
	4	M5 x 0.8	KAL04-M5	8	10.4	8	18	16	15.5	16	3.5	3.5	4									
		M6 x 1	KAL04-M6										5									
		1/8	KAL04-U01										10	20	20.5	8						
		1/4	KAL04-U02										14	22	21.5	14						
		M5 x 0.8	KAL06-M5										8	16	18	6						
		M6 x 1	KAL06-M6										10	16.5	17	5						
	6	1/8	KAL06-U01	10	12.8	10	20	23.5	21.5	17	11.4	11.4	9									
		1/4	KAL06-U02	14									23	23.5	15							
		3/8	KAL06-U03	17									24	24.5	23							
		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							
	8	1/8	KAL10-U01	17	15.2	12	23	25	29.5	18.5	14.9	14.9	24									
		1/4	KAL10-U02	14									24.5	26	16							
		3/8	KAL10-U03	17									27	30.5	21							
		1/8	KAL10-U01	17									25	29.5	14.9	14.9	24					
		1/4	KAL10-U02	17									26.5	30	21							
		3/8	KAL10-U03	17									27	30.5	25	25.0	25					
	12	1/2	KAL10-U04	22	20.9	17	26.5	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							

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>

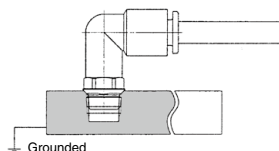


⚠ Precautions




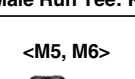


Be sure to read before handling.
Refer to front matter 56 for Safety Instructions and pages 13 to 16 for Fittings and Tubing Precautions.

⚠ Caution

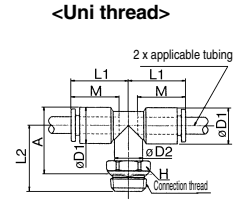
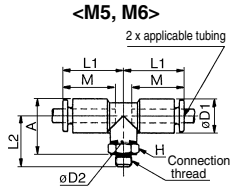
1. Female thread portion connected with fitting must be grounded, otherwise static electricity will remain in the fittings and tubes.



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 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	19
			KAT08-M6	8				24.5					
			KAT08-U01	12				25.5					
			KAT08-U02	14				27					
	10	M5 x 0.8 M6 x 1 1/8 1/4	KAT10-U01	10	18.5	17	26.5	25	29	26.5	29.0	29.0	31
			KAT10-U02	14				27					
			KAT10-U03	17				27					
			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	28	45.2	45.2	34
			KAT12-U02	17				27					
			KAT12-U03	17				28					
			KAT12-U04	22				31					

* Reference dimensions after Uni thread installation.

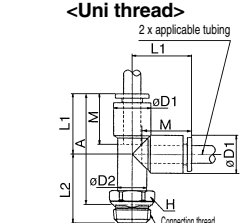
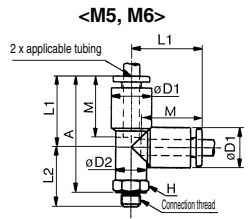


- KQ2
- KQB2
- KS
- KX
- KM
- KF
- M
- H/DL
- L/LL
- KC
- KK
- KK130
- DM
- KDM
- KB
- KR
- KA
- KQG2
- KG
- KFG2
- MS
- KKA
- KP
- LQ
- MQR
- T

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	29.5	16	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	32	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	24.5	41.5	24.5	17.7	17.7	18
			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	10	18.5	17	26.5	25	46.5	26.5	28.4	28.4	31
			KAY10-U02	14				27					
			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	49.5	28	45.4	45.4	35
			KAY12-U02	17				27					
			KAY12-U03	17				28					
			KAY12-U04	22				31					

* Reference dimensions after Uni thread installation.

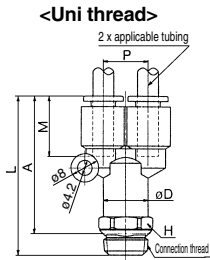
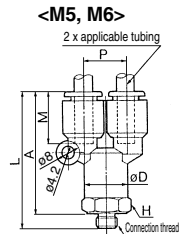


Series KA

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		
		1/6	KAU23-U01	11	3.4	2.9	11					
6	4	M5 x 0.8	KAU04-M5	11	10.4	40	10.4	36	16	2.2	2.2	4
		M6 x 1	KAU04-M6							10		
		1/6	KAU04-U01	11	4.2	4.2	11					
		1/4	KAU04-U02	14	42	16						
		M5 x 0.8	KAU06-M5	13	12.8	52	39	17	2.2	2.2	12	
M6 x 1	KAU06-M6	43										
1/6	KAU06-U01	14	43.5	12.8	39.5	13						
1/4	KAU06-U02	14	45	39	13.4	13.4	17					
3/6	KAU06-U03	17	46	40	25							
8	8	1/6	KAU08-U01	17	15.2	50.5	46	18.5	17.7	17.7	24	
		1/4	KAU08-U02								46	
		3/6	KAU08-U03	17	51.5	45.5	27					
10	10	1/4	KAU10-U02	19	18.5	57.5	18.5	51.5	21	28.4	28.4	36
		3/6	KAU10-U03									51
		1/2	KAU10-U04	22	51	51	51					
12	12	1/4	KAU12-U02	22	20.9	61	20.9	55	22	45.4	45.4	53
		3/6	KAU12-U03									62.5
		1/2	KAU12-U04	22	62.5	54.5	52					

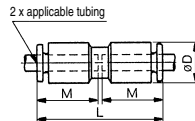
* Reference dimensions after Uni thread installation.



Straight Union: KAH



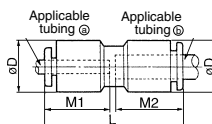
Applicable tubing O.D. (mm)	Model	øD	L	M	Effective area (mm ²)		Weight (g)
					Soft nylon	Urethane	
3.2	KAH23-00	9.6	31.5	15.5	3.4	2.9	3
4	KAH04-00	10.4	32.5	16	5.6	5.6	3
6	KAH06-00	12.8	34.5	17	13.1	13.1	4
8	KAH08-00	15.2	38.5	18.5	18.0	18.0	6
10	KAH10-00	18.5	42.5	21	29.5	29.5	11
12	KAH12-00	20.9	44.5	22	46.1	46.1	14



Different Diameter Straight: KAH



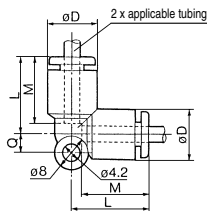
Applicable tubing O.D. (mm)		Model	øD	L	M1	M2	Effective area (mm ²)		Weight (g)
Ⓐ	Ⓑ						Soft nylon	Urethane	
3.2	4	KAH23-04	10.4	32.5	15.5	16	3.2	2.7	3
4	6	KAH04-06	12.8	34.5	16	17	4.2	4.2	4
6	8	KAH06-08	15.2	38.5	17	18.5	10.7	10.7	6
8	10	KAH08-10	18.5	42	18.5	21	16.7	16.7	11
10	12	KAH10-12	20.9	44.5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



Union Elbow: KAL



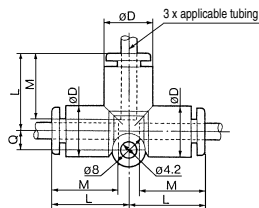
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
						3.2	KAL23-00	
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12	KAL12-00	20.9	28.5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



Union Tee: KAT



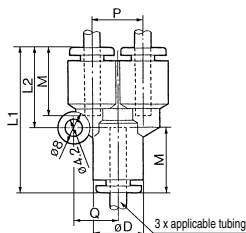
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
						3.2	KAT23-00	
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25
12	KAT12-00	20.9	28.5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



Union "Y": KAU



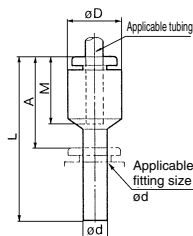
Applicable tubing O.D. (mm)	Model	øD	L1	L2	P	Q	M	Effective area (mm ²)		Weight (g)
								Soft nylon	Urethane	
								3.2	KAU23-00	
4	KAU04-00	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	KAU06-00	12.8	37	20	12.8	11.7	17	13.4	13.4	9
8	KAU08-00	15.2	42.5	24.5	15.2	13.7	18.5	17.7	17.7	11
10	KAU10-00	18.5	48	27.5	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	
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	17				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	18.0				4.6
10	12	KAR10-12	18.5	44.5	23	21	32.8	32.8	33



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