

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.



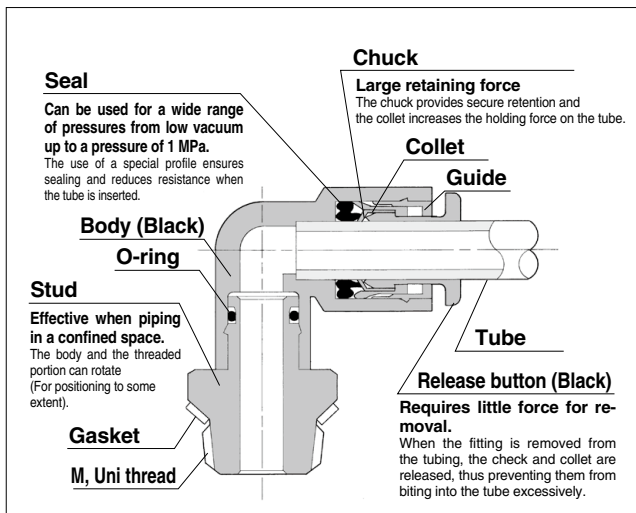
Principal Parts Material

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
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>



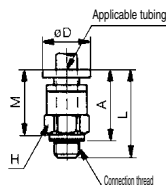
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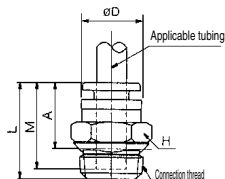
Applicable tubing O.D. (mm)	Connector thread M thread Uni thread	Model	H (width across flats)	øD	L	A*	M	Effective area (mm²) Soft nylon Urethane	Weight (g)
3.2	M5 x 0.8	KAH23-M5	7	8.5	17	14	13	3.4	2.1
	M6 x 1	KAH23-M6	8		17.5				
	1/8	KAH23-U01	10		12.5	8.5			
4	M5 x 0.8	KAH04-M5	8	9.5	17	14	13	4	2
	M6 x 1	KAH04-M6	8		17.5				
	1/8	KAH04-U01	10		18.5	13.5			
	1/4	KAH04-U02	14		16.5	10.5			
6	M5 x 0.8	KAH06-M5	10	11.5	18.5	15	14	4	3
	M6 x 1	KAH06-M6	10		19				
	1/8	KAH06-U01	12		19.5	14.5			
	1/4	KAH06-U02	14		13				
8	1/8	KAH08-U01	14	14	17.5	11.5	17	13.1	13.1
	1/4	KAH08-U02	17		25	20.5			
	3/8	KAH08-U03	17		21.5	15.5			
	1/2	KAH08-U04	22		19.5	13.5			
10	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5
	1/4	KAH10-U02	17		22				
	3/8	KAH10-U03	24		18				
	1/2	KAH10-U04	22		22	14			
12	1/4	KAH12-U02	19	19	30.5	24.5	22	46.1	46.1
	3/8	KAH12-U03	25.5		19.5				
	1/2	KAH12-U04	24.5		16.5				

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>



Male Elbow: KAL

<M5, M6>



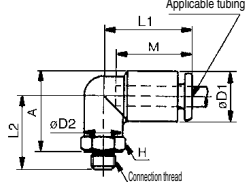
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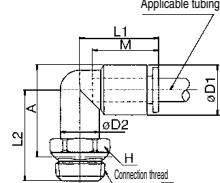
Applicable tubing O.D. (mm)	Connector thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm²) Soft nylon Urethane	Weight (g)
3.2	M5 x 0.8	KAL23-M5	8	9.6	8	15	16	15.5	3.4	2.9	6
	M6 x 1	KAL23-M6	8		10	15.5					
	1/8	KAL23-U01	10		10	19.5	21				
4	M5 x 0.8	KAL04-M5	8	10.4	8	15.5	16	16	3.5	3.5	4
	M6 x 1	KAL04-M6	8		10	16					
	1/8	KAL04-U01	10		10	20	20.5				
	1/4	KAL04-U02	14		10	22	21.5				
6	M5 x 0.8	KAL06-M5	10	12.8	8	16	18	17	3.5	3.5	5
	M6 x 1	KAL06-M6	10		10	16.5					
	1/8	KAL06-U01	12		10	21.5	23.5				
	1/4	KAL06-U02	14		10	23					
8	1/8	KAL08-U01	12	15.2	12	24	24.5	18.5	14.9	14.9	11
	1/4	KAL08-U02	14		12	22.5	25.5				
	3/8	KAL08-U03	17		12	24.5	26				
	1/2	KAL08-U04	22		12	25.5	27				
10	1/8	KAL10-U01	17	18.5	17	25	29.5	21	25.0	25.0	24
	1/4	KAL10-U02	17		17	26.5	30				
	3/8	KAL10-U03	22		17	27	30.5				
	1/2	KAL10-U04	22		17	30	31.5				
12	1/4	KAL12-U02	17	20.9	17	27	31.5	22	39.7	39.7	27
	3/8	KAL12-U03	23		17	28	32.5				
	1/2	KAL12-U04	22		17	31	33.5				
					17						

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>

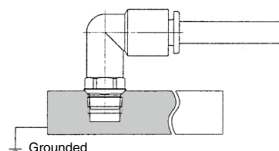


⚠ Precautions

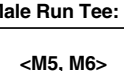
Be sure to read this before handling the products.
Refer to back page 50 for Safety Instructions and pages 13 to 17 for Fittings and Tubing Precautions.

⚠ Caution

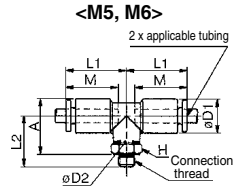
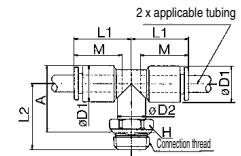
1. Female thread portion connected with fitting must be grounded, otherwise static electricity will remain in the fittings and tubes.



Male Branch Tee: KAT

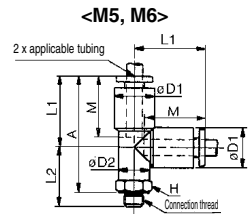
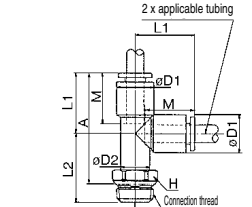
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)
											Soft nylon	Urethane	
	3.2	M5 x 0.8	KAT23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	8
		M6 x 1	KAT23-M6	8									
		1/8	KAT23-U01	10									
	4	M5 x 0.8	KAT04-M5	8	10.4	8	18	15.5	17	16	4.3	4.3	6
		M6 x 1	KAT04-M6	8									
		1/8	KAT04-U01	14									
		1/4	KAT04-U02	14									
	6	M5 x 0.8	KAT06-M5	8	12.8	8	20	16	18	17	13.9	13.9	7
		M6 x 1	KAT06-M6	8									
		1/8	KAT06-U01	10									
		1/4	KAT06-U02	14									
		3/8	KAT06-U03	17									
	8	1/8	KAT08-U01	12	15.2	12	23	22.5	26	18.5	18.2	18.2	14
		1/4	KAT08-U02	14									
		3/8	KAT08-U03	17									
		1/8	KAT10-U01	12		18.5	17	25	29.5	21	29.0	29.0	31
		1/4	KAT10-U02	14									
	10	3/8	KAT10-U03	17									
		1/2	KAT10-U04	22									
		1/4	KAT12-U02	17	20.9	17	28.5	27	31.5	22	45.2	45.2	34
		3/8	KAT12-U03	17									
		1/2	KAT12-U04	22									

* Reference dimensions after Uni thread installation.


<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									
		1/8	KAY23-U01	10									
	4	M5 x 0.8	KAY04-M5	8	10.4	8	18	15.5	29.5	16	4.6	4.6	6
		M6 x 1	KAY04-M6	8									
		1/8	KAY04-U01	10									
		1/4	KAY04-U02	14									
	6	M5 x 0.8	KAY06-M5	8	12.8	8	20	16	32	17	13.4	13.4	7
		M6 x 1	KAY06-M6	8									
		1/8	KAY06-U01	10									
		1/4	KAY06-U02	14									
		3/8	KAY06-U03	17									
	8	1/8	KAY08-U01	12	15.2	12	23	22.5	41.5	18.5	17.7	17.7	14
		1/4	KAY08-U02	14									
		3/8	KAY08-U03	17									
		1/8	KAY10-U01	12		18.5	17	25	46.5	21	28.4	28.4	31
		1/4	KAY10-U02	14									
	10	3/8	KAY10-U03	17									
		1/2	KAY10-U04	22									
		1/4	KAY12-U02	17	20.9	17	28.5	27	49.5	22	45.4	45.4	35
		3/8	KAY12-U03	17									
		1/2	KAY12-U04	22									

* Reference dimensions after Uni thread installation.


<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

KA Series

Branch “Y”: KAU

<M5, M6>



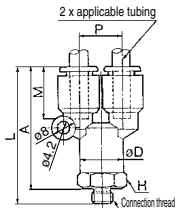
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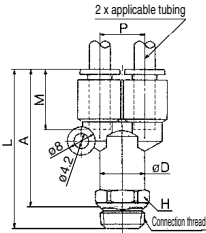
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	P	A*	M	Effective area (mm²)		Weight (g)							
									Soft nylon	Urethane								
3.2	M5 x 0.8	KAU23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9							
	M6 x 1	KAU23-M6																
	1/8	KAU23-U01	11		3.4				2.9	11								
4	M5 x 0.8	KAU04-M5	11	10.4	39.5	10.4	36	16	2.2	2.2	4							
	M6 x 1	KAU04-M6								10								
	1/8	KAU04-U01	14						4.2	4.2	11							
	1/4	KAU04-U02									16							
	M5 x 0.8	KAU06-M5							2.2	2.2	12							
6	M6 x 1	KAU06-M6	13	12.8	43	12.8	39.5	17	13.4	13.4	13							
	1/8	KAU06-U01	17		17													
	1/4	KAU06-U02	14		45						39		25					
	3/8	KAU06-U03											26					
	1/8	KAU08-U01	17		15.2						50.5	15.2	46.5	18.5	17.7	17.7	24	
1/4	KAU08-U02	52		46.5		26												
3/8	KAU08-U03	51.5		45.5		27												
10	1/4	KAU10-U02	19	18.5	57.5	18.5	51.5	21	28.4	28.4	36							
	3/8	KAU10-U03			59						51	51						
	1/2	KAU10-U04			22						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																
	1/2	KAU12-U04			22								52					
	3/4	KAU12-U04											52					

* Reference dimensions after Uni Thread installation.

<M5, M6>



<Uni thread>

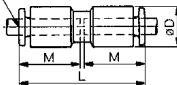


Straight Union: KAH



Applicable tubing O.D. (mm)	Model	øD	L	M	Effective area (mm²)		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

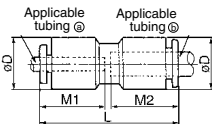
2 x applicable tubing



Different Diameter Straight: KAH



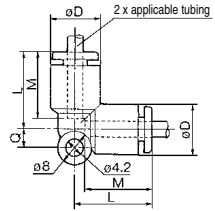
Applicable tubing O.D. (mm)		Model	øD	L	M1	M2	Effective area (mm²)		Weight (g)
Ⓐ	Ⓑ						Soft nylon	Urethane	
3.2	4	KAH23-04	10.4	32.5	15.5	16	3.2	2.7	3
4	6	KAH04-06	12.8	34.5	16	17	4.2	4.2	4
6	8	KAH06-08	15.2	38.5	17	18.5	10.7	10.7	6
8	10	KAH08-10	18.5	42	18.5	21	16.7	16.7	11
10	12	KAH10-12	20.9	44.5	21	22	28.2	28.2	14



Union Elbow: KAL



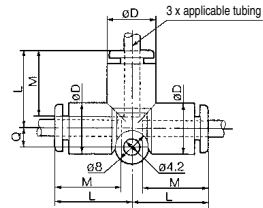
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12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



Union Tee: KAT



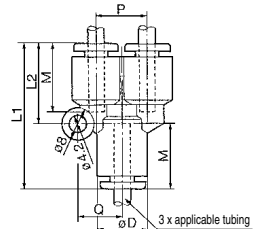
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25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



Union "Y": KAU



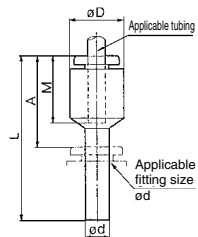
Applicable tubing O.D. (mm)	Model	øD	L1	L2	P	Q	M	Effective area (mm ²)		Weight (g)
								Soft nylon	Urethane	
3.2	KAU23-00	9.6	33	17.5	9.6	9	15.5	3.4	2.9	5
4	KAU04-00	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	KAU06-00	12.8	37	20	12.8	11.7	17	13.4	13.4	9
8	KAU08-00	15.2	42.5	24.5	15.2	13.7	18.5	17.7	17.7	11
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					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					4.6
10	12	KAR10-12	18.5	44.5	23	21	32.8	32.8	33



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.

KQ2

KQ82

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