

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.



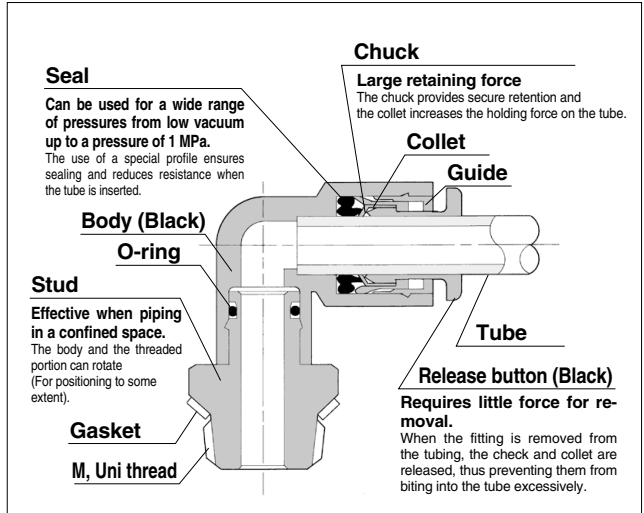
Principal Parts Material

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>



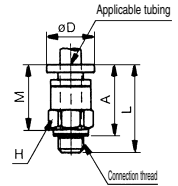
<Uni thread>



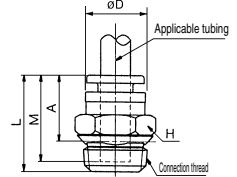
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	A*	M	Effective area (mm ²)		Weight (g)				
								Soft nylon	Urethane					
3.2	M5 x 0.8	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1				
	M6 x 1	KAH23-M6	8								17.5			
	1/8	KAH23-U01	10								12.5	8.5	4	
4	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	
6	1/4	KAH04-U02	14	10	16	16	5.6	5.6	10	3				
	M5 x 0.8	KAH06-M5	10								18.5	19	4	4
	M6 x 1	KAH06-M6	10								19	15	4	4
8	1/8	KAH08-U01	12	12	19.5	14.5	17	13.1	13.1	5				
	1/4	KAH08-U02	14								13	10		
	3/8	KAH08-U03	17								17.5	11.5	16	
10	1/8	KAH08-U01	14	14	25	20.5	18.5	18.0	18.0	27				
	1/4	KAH08-U02	14								21.5	15.5	27	
	3/8	KAH08-U03	17								19.5	13.5	33	
12	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	17				
	1/4	KAH10-U02	17								22	14		
	3/8	KAH10-U03	17								24	18	28	
12	1/2	KAH10-U04	22	19	30.5	24.5	22	46.1	46.1	28				
	1/4	KAH12-U02	19								25.5	19.5	16	
	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>



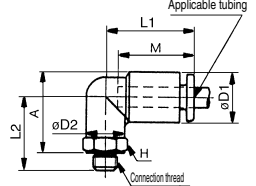
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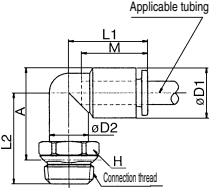
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)			
										Soft nylon	Urethane				
3.2	M5 x 0.8	KAL23-M5	8	9.6	8	15	16	15.5	15.5	3.4	2.9	6			
	M6 x 1	KAL23-M6											17.5	15.5	7
	1/8	KAL23-U01											10	19.5	21
4	M5 x 0.8	KAL04-M5	8	10.4	8	15.5	16	16	16	3.5	3.5	4			
	M6 x 1	KAL04-M6											20	20.5	5
	1/8	KAL04-U01											10	20	20.5
6	1/4	KAL04-U02	14	10	22	21.5	21.5	17	11.4	11.4	15	23			
	M5 x 0.8	KAL06-M5	8										16	18	6
	M6 x 1	KAL06-M6	10										16.5	18	5
8	1/8	KAL06-U01	10	12.8	20	21.5	23.5	17	11.4	11.4	23	9			
	1/4	KAL06-U02	14										23	24.5	11
	3/8	KAL06-U03	17										24	24.5	11
10	1/8	KAL08-U01	12	15.2	12	23	23	18.5	14.9	14.9	16	23			
	1/4	KAL08-U02	14										22.5	25.5	16
	3/8	KAL08-U03	17										25.5	27	24
12	1/8	KAL10-U01	17	17	17	26.5	30	21	25.0	25.0	24	21			
	1/4	KAL10-U02	17										27	30.5	25
	3/8	KAL10-U03	17										30	31.5	45
12	1/2	KAL10-U04	22	20.9	17	28.5	28	22	39.7	39.7	27	48			
	1/4	KAL12-U02	17										27	31.5	23
	3/8	KAL12-U03	17										28	32.5	27
12	1/2	KAL12-U04	22	17	17	28.5	31	22	39.7	39.7	27	48			

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>

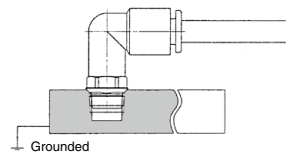


⚠ Precautions







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

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

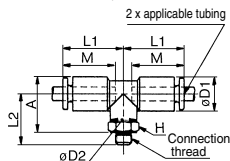


Male Branch Tee: KAT

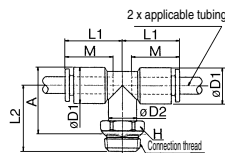
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)	
											Soft nylon	Urethane		
	3.2	M5 x 0.8 M6 x 1 1/8	KAT23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	8	
			KAT23-M6	8				15.5						
			KAT23-U01	10				19.5						21
	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						21.5
			KAT04-U02	14				22						21.5
	6	M5 x 0.8 M6 x 1 1/8 1/4 3/8	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						23.5
			KAT06-U02	14				23						23.5
			KAT06-U03	17				24						24.5
	8	M5 x 0.8 M6 x 1 1/8 1/4 3/8	KAT08-U01	12	15.2	12	23	22.5	26	25.5	18.2	18.2	14	
			KAT08-U02	14				24.5						27
			KAT08-U03	17				25.5						27
			KAT10-U01	17				25						29.5
			KAT10-U02	17				26.5						30
			KAT10-U03	17				27						30.5
	10	M5 x 0.8 M6 x 1 1/8 1/4 3/8 1/2	KAT11-U01	17	18.5	17	26.5	25	29	29	29.0	29.0	30	
			KAT11-U02	17				26.5						30
			KAT11-U03	17				27						30.5
			KAT11-U04	22				30						31.5
			KAT12-U02	17				27						31.5
	12	M5 x 0.8 M6 x 1 1/8 1/4 3/8 1/2	KAT12-U03	17	20.9	17	28.5	28	32.5	22	45.2	45.2	34	
			KAT12-U04	22				31						33.5
			KAT12-U04	22				31						33.5

* Reference dimensions after Uni thread installation.






<M5, M6>



<Uni thread>

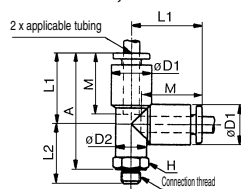


Male Run Tee: KAY

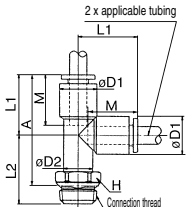
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)	
											Soft nylon	Urethane		
	3.2	M5 x 0.8 M6 x 1 1/8	KAY23-M5	8	9.6	8	17.5	15	28.5	15.5	3.4	2.9	8	
			KAY23-M6	8				15.5						
			KAY23-U01	10				19.5						33
	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						16
			KAY04-U01	10				20						34
			KAY04-U02	14				22						34.5
	6	M5 x 0.8 M6 x 1 1/8 1/4 3/8	KAY06-M5	8	12.8	8	20	16	32	17	4.6	4.6	7	
			KAY06-M6	8				20.5						16.5
			KAY06-U01	10				21.5						37.5
			KAY06-U02	14				23						37
			KAY06-U03	17				24						38
	8	M5 x 0.8 M6 x 1 1/8 1/4 3/8	KAY08-U01	12	15.2	12	23	22.5	41.5	18.5	17.7	17.7	14	
			KAY08-U02	14				24.5						42.5
			KAY08-U03	17				25.5						42.5
			KAY10-U01	17				25						46.5
			KAY10-U02	17				26.5						47.5
			KAY10-U03	17				27						48
	10	M5 x 0.8 M6 x 1 1/8 1/4 3/8 1/2	KAY11-U01	17	18.5	17	26.5	27	49	21	28.4	28.4	31	
			KAY11-U02	17				27						49.5
			KAY11-U03	17				28						50.5
			KAY12-U03	17				28						50.5
			KAY12-U04	22				31						51.5

* 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

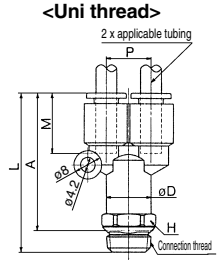
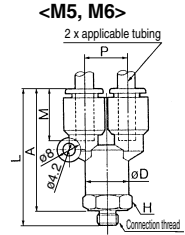
IDK

KA Series

Branch "Y": KAU

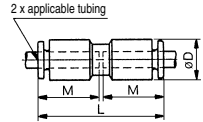
<M5, M6>	Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	P	A*	M	Effective area (mm ²)		Weight (g)
										Soft nylon	Urethane	
	3.2	M5 x 0.8	KAU23-M5	10	9.6	38	9.6	34.5	15.5	2.2	2.2	9
		M6 x 1	KAU23-M6							38.5	3.4	2.9
		1/6	KAU23-U01	11	39.5	4						
	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	14	42	16						
		1/4	KAU04-U02	14	42	16						
		1/2	KAU04-U03	17	46	20						
	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	45	17						
		1/4	KAU06-U02	14	45	17						
		3/6	KAU06-U03	17	46	20						
		1/2	KAU06-U04	17	50.5	24						
	8	1/6	KAU08-U01	17	15.2	52	15.2	46	18.5	17.7	17.7	24
		1/4	KAU08-U02							46	27	
		3/6	KAU08-U03	17	51.5	27						
		1/2	KAU08-U04	19	57.5	31						
		1/4	KAU10-U02	19	57.5	31						
		3/6	KAU10-U03	22	61	36						
	10	1/2	KAU10-U04	22	20.9	61	20.9	55	22	45.4	45.4	52
		3/6	KAU12-U03							54.5	53	
		1/4	KAU12-U02	22	61	53						
		1/2	KAU12-U04	22	62.5	54.5						

* Reference dimensions after Uni thread installation.



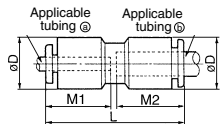
Straight Union: KAH

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

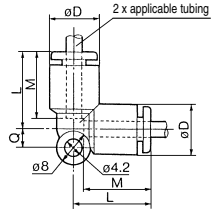
Applicable tubing O.D. (mm)		Model	øD	L	M1	M2	Effective area (mm ²)		Weight (g)
Ⓐ	Ⓑ						Soft nylon	Urethane	
3.2	4	KAH23-04	10.4	32.5	15.5	16	3.2	2.7	3
4	6	KAH04-06	12.8	34.5	16	17	4.2	4.2	4
6	8	KAH06-08	15.2	38.5	17	18.5	10.7	10.7	6
8	10	KAH08-10	18.5	42	18.5	21	16.7	16.7	11
10	12	KAH10-12	20.9	44.5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



Union Elbow: KAL



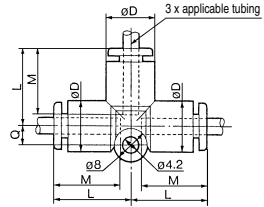
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12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



Union Tee: KAT



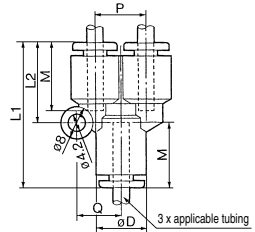
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Weight (g)
						Soft nylon	Urethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25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



Union "Y": KAU



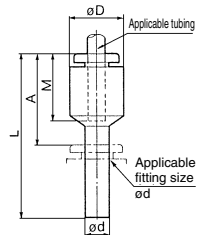
Applicable tubing O.D. (mm)	Model	øD	L1	L2	P	Q	M	Effective area (mm ²)		Weight (g)
								Soft nylon	Urethane	
3.2	KAU23-00	9.6	33	17.5	9.6	9	15.5	3.4	2.9	5
4	KAU04-00	10.4	34	18	10.4	9.7	16	4.2	4.2	7
6	KAU06-00	12.8	37	20	12.8	11.7	17	13.4	13.4	9
8	KAU08-00	15.2	42.5	24.5	15.2	13.7	18.5	17.7	17.7	11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



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

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