

Antistatic One-touch Fittings

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

Series KA

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 10^4 to $10^7 \Omega$

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



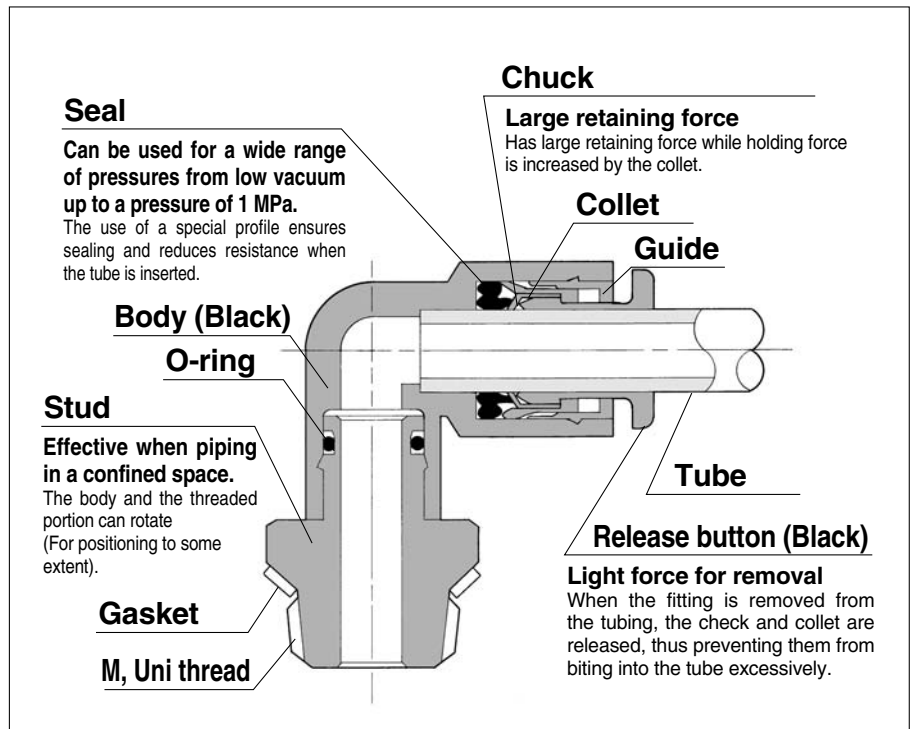
Principal Parts Material

Body	C3604, PBT
Stud	C3604
Chuck	Stainless steel 304
Guide	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 (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.	$\phi 3.2, \phi 4, \phi 6, \phi 8, \phi 10, \phi 12$

Specifications

Fluid	Air
Operating pressure range	-100kPa to 1MPa
Proof pressure	3MPa
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 $10^7 \Omega$

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

Male Connector: KAH

<M5, M6>



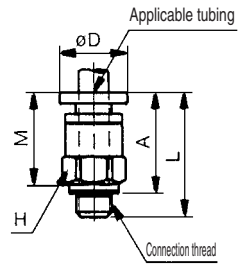
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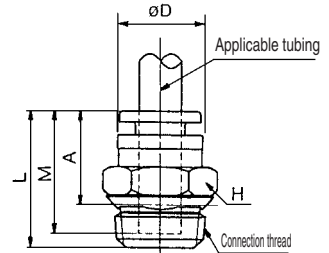
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	A*	M	Effective area (mm ²)		Mass (g)	
								Soft nylon	Urethane		
3.2	M5 x 0.8	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1	
	M6 x 1	KAH23-M6	8		17.5						
	1/8	KAH23-U01	10		12.5						8.5
4	M5 x 0.8	KAH04-M5	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
	1/4	KAH04-U02	14		16.5						10.5
6	M5 x 0.8	KAH06-M5	10	11.5	18.5	15	14	4	4	3	
	M6 x 1	KAH06-M6	10		19						
	1/8	KAH06-U01	12		19.5						14.5
	1/4	KAH06-U02	14		17						13.1
8	1/8	KAH08-U01	12	12	17.5	11.5	17	13.1	13.1	10	
	1/4	KAH08-U02	14		25						20.5
	3/8	KAH08-U03	17		19.5						13.5
10	1/8	KAH10-U01	14	14	25	20.5	18.5	18.0	18.0	11	
	1/4	KAH10-U02	17		21.5						15.5
	3/8	KAH10-U03	17		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	16	
	3/8	KAH12-U03	19		25.5						19.5
	1/2	KAH12-U04	22		24.5						16.5
	1/2	KAH12-U04	22		24.5						16.5

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>



- K
- M
- H
- KK
- D
- MS
- LQ
- MQR
- T

Male Elbow: KAL

<M5, M6>



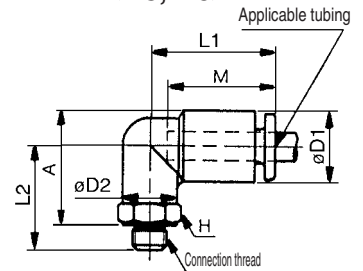
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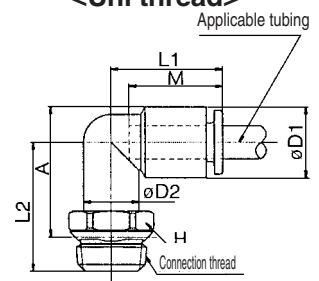
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Mass (g)	
										Soft nylon	Urethane		
3.2	M5 x 0.8	KAL23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	6	
	M6 x 1	KAL23-M6	8				15.5						
	1/8	KAL23-U01	10				19.5						21
4	M5 x 0.8	KAL04-M5	8	10.4	8	18	15.5	16	16	3.5	3.5	4	
	M6 x 1	KAL04-M6	8				16						
	1/8	KAL04-U01	10				20						20.5
	1/4	KAL04-U02	14				22						21.5
6	M5 x 0.8	KAL06-M5	8	12.8	8	20	16	18	17	3.5	3.5	6	
	M6 x 1	KAL06-M6	8				16.5						
	1/8	KAL06-U01	10				21.5						23.5
	1/4	KAL06-U02	14				23						24.5
8	1/8	KAL08-U01	12	15.2	12	23	22.5	25.5	18.5	14.9	14.9	11	
	1/4	KAL08-U02	14				24.5						26
	3/8	KAL08-U03	17				25.5						27
10	1/8	KAL10-U01	14	18.5	17	26.5	25	29.5	21	14.9	14.9	24	
	1/4	KAL10-U02	17				26.5						30
	3/8	KAL10-U03	17				27						30.5
	1/2	KAL10-U04	22				30						31.5
12	1/4	KAL12-U02	17	20.9	17	28.5	27	31.5	22	39.7	39.7	27	
	3/8	KAL12-U03	17				28						32.5
	1/2	KAL12-U04	22				31						33.5
	1/2	KAL12-U04	22				31						33.5

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>

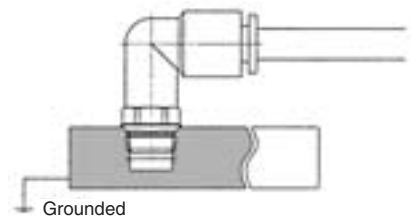


⚠ Precautions

Be sure to read before handling.
Refer to front matters 58 and 59 for Safety Instructions and pages 13 to 16 for Fittings and Tubing Precautions.




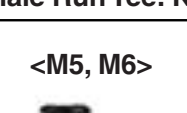


⚠ Caution

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

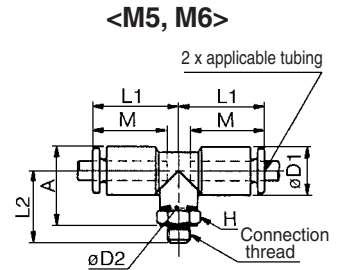


Series KA

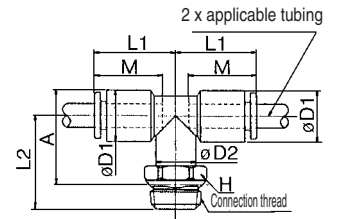
Male Branch Tee: KAT

<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)		Mass (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	10				15.5						19.5
		1/8	KAT23-U01	10				19.5						21
	4	M5 x 0.8	KAT04-M5	8	10.4	8	18	15.5	16	16	4.3	4.3	6	
		M6 x 1	KAT04-M6	10				16						20
		1/8	KAT04-U01	10				20						21.5
		1/4	KAT04-U02	14				22						24.5
	6	M5 x 0.8	KAT06-M5	8	12.8	8	20	16	17	17	4.3	4.3	7	
		M6 x 1	KAT06-M6	10				16.5						21.5
		1/8	KAT06-U01	10				21.5						23.5
		1/4	KAT06-U02	14				23						24.5
	8	1/8	KAT08-U01	12	15.2	12	23	22.5	18.5	18.2	18.2	14		
		1/4	KAT08-U02	14				24.5					25.5	
		3/8	KAT08-U03	17				25.5					27	
	10	1/8	KAT10-U01	12	18.5	17	26.5	25	21	29.0	29.0	30		
		1/4	KAT10-U02	17				26.5					30	
		3/8	KAT10-U03	17				27					30.5	
		1/2	KAT10-U04	22				30					31.5	
	12	1/4	KAT12-U02	17	20.9	17	28.5	27	22	45.2	45.2	31		
		3/8	KAT12-U03	17				28					32.5	
		1/2	KAT12-U04	22				31					33.5	





* Reference dimensions after Uni thread installation.



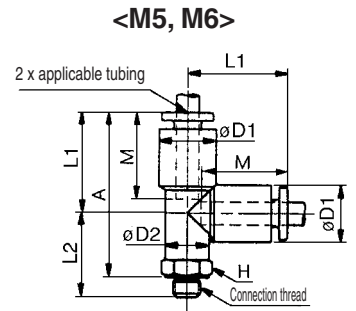
<Uni thread>



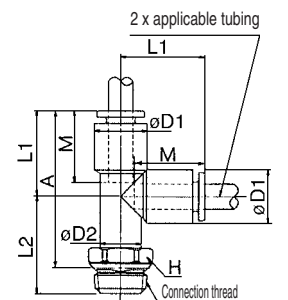
Male Run Tee: KAY

<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)		Mass (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	10				15.5						19.5
		1/8	KAY23-U01	10				19.5						33
	4	M5 x 0.8	KAY04-M5	8	10.4	8	18	15.5	16	16	4.6	4.6	6	
		M6 x 1	KAY04-M6	10				18.5						16
		1/8	KAY04-U01	10				20						34
		1/4	KAY04-U02	14				22						34.5
	6	M5 x 0.8	KAY06-M5	8	12.8	8	20	16	17	17	4.6	4.6	7	
		M6 x 1	KAY06-M6	10				16.5						21.5
		1/8	KAY06-U01	10				21.5						37.5
		1/4	KAY06-U02	14				23						37
	8	1/8	KAY08-U01	12	15.2	12	23	22.5	18.5	17.7	17.7	14		
		1/4	KAY08-U02	14				24.5					41.5	
		3/8	KAY08-U03	17				25.5					42.5	
	10	1/8	KAY10-U01	12	18.5	17	26.5	25	21	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	
	12	1/4	KAY12-U02	17	20.9	17	28.5	27	22	45.4	45.4	31		
		3/8	KAY12-U03	17				28					50.5	
		1/2	KAY12-U04	22				31					51.5	



* Reference dimensions after Uni thread installation.



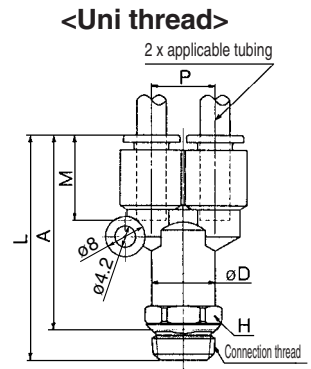
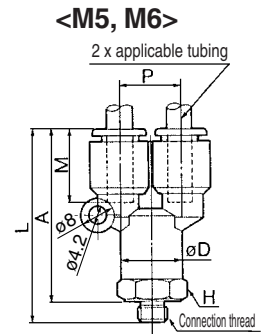
<Uni thread>



Branch "Y": KAU

	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)		Mass (g)	
										Soft nylon	Urethane		
<M5, M6> 	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	11		38.5				3.4	2.9	11	
		1/8	KAU23-U01										
<Uni thread> 	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			40				4.2	4.2	10	
		1/8	KAU04-U01			42						11	
		1/4	KAU04-U02			14						16	
6	M5 x 0.8	KAU06-M5	13	12.8	12.8	42.5	39	17	17	2.2	2.2	12	
	M6 x 1	KAU06-M6				43						13	
	1/8	KAU06-U01				43.5				39.5	13.4	13.4	17
	1/4	KAU06-U02				45				39			25
	3/8	KAU06-U03				46				40			26
8	1/8	KAU08-U01	17	15.2	15.2	50.5	46.5	18.5	17.7	17.7	24		
	1/4	KAU08-U02				52					45.5	27	
	3/8	KAU08-U03				51.5							38
10	1/4	KAU10-U02	19	18.5	18.5	57.5	51.5	21	28.4	28.4	36		
	3/8	KAU10-U03				59					51	51	
	1/2	KAU10-U04				22							53
12	1/4	KAU12-U02	22	20.9	20.9	61	55	22	45.4	45.4	52		
	3/8	KAU12-U03				62.5					54.5		
	1/2	KAU12-U04											

* Reference dimensions after Uni thread installation.

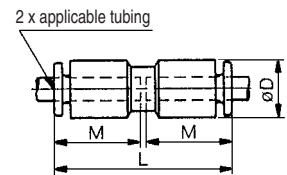


- K
- M
- H
- KK
- D
- MS
- LQ
- MQR
- T

Straight Union: KAH



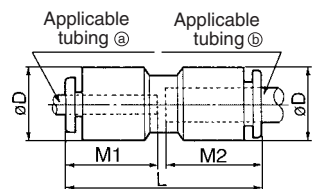
Applicable tubing O.D. (mm)	Model	øD	L	M	Effective area (mm ²)		Mass (g)
					Soft nylon	Urethane	
3.2	KAH23-00	9.6	31.5	15.5	3.4	2.9	3
4	KAH04-00	10.4	32.5	16	5.6	5.6	3
6	KAH06-00	12.8	34.5	17	13.1	13.1	4
8	KAH08-00	15.2	38.5	18.5	18.0	18.0	6
10	KAH10-00	18.5	42.5	21	29.5	29.5	11
12	KAH12-00	20.9	44.5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



Different Diameter Straight: KAH



Applicable tubing O.D. (mm)		Model	øD	L	M1	M2	Effective area (mm ²)		Mass (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

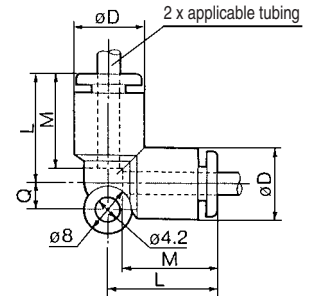


Series KA

Union Elbow: KAL



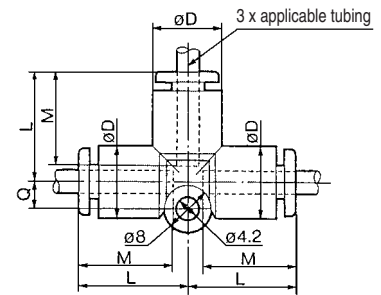
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Mass (g)
						Soft nylon	Urethane	
3.2	KAL23-00	9.6	17.5	4.3	15.5	3.4	2.9	3
4	KAL04-00	10.4	18	4.5	16	4.2	4.2	6
6	KAL06-00	12.8	20	5.3	17	11.4	11.4	6
8	KAL08-00	15.2	23	6	18.5	14.9	14.9	10
10	KAL10-00	18.5	26.5	6.8	21	25.0	25.0	17
12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



Union Tee: KAT



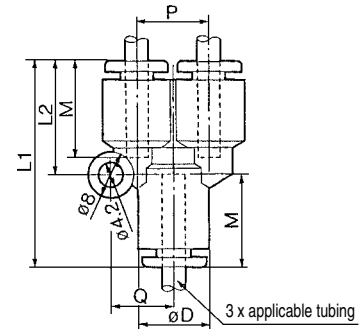
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm ²)		Mass (g)
						Soft nylon	Urethane	
3.2	KAT23-00	9.6	17.5	4.3	15.5	3.4	2.9	5
4	KAT04-00	10.4	18	4.5	16	6.4	6.9	7
6	KAT06-00	12.8	20	5.3	17	13.4	13.4	10
8	KAT08-00	15.2	23	6	18.5	17.7	17.7	15
10	KAT10-00	18.5	26.5	6.8	21	28.4	28.4	25
12	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)		Mass (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)		Mass (g)
							Soft nylon	Urethane	
3.2	4	KAR23-04	9.6	33.5	18.5	15.5	3.4	2.9	5
	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	12.8	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
	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
10	12	KAR10-12	18.5	44.5	23	21	32.8	32.8	33

