

Antistatic One-touch Fittings

Series KA

One-touch fitting with antistatic prevention

One-touch IN/OUT connection.

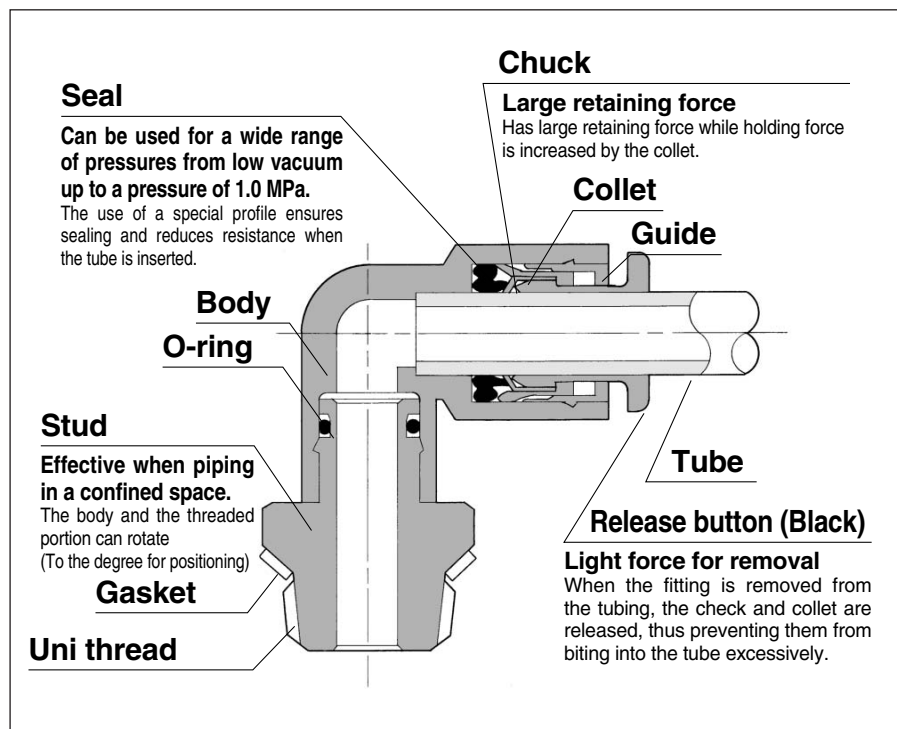
Possible to use from vacuum (–100 kPa).

Can be used in copper-free application.

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

Surface resistance 10^4 to $10^7 \Omega$

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



Principal Parts Material

Body	C3604BD, PBT
Stud	C3604BD
Chuck	Stainless steel 304
Guide	Stainless steel 304, C3604BD, PBT
Collet, Release button	PBT
Seal, O-ring	NBR

- C3604BD is all electroless nickel plated.
- PBT parts have conductive (10^4 to $10^7 \Omega$) and flame resistant applications. (UL-standard, V-0)
- Conductive NBR (10^4 to $10^7 \Omega$) is used for seals.

Applicable Tubing

Tubing material	Antistatic soft nylon, Polyurethane
Tubing O.D.	$\phi 3.2$, $\phi 4$, $\phi 6$, $\phi 8$, $\phi 10$, $\phi 12$

Specifications

Fluid	Air
Maximum operating pressure	1.0 MPa
Operating vacuum pressure	–100 kPa
Proof pressure	3.0 MPa
Ambient and fluid temperature	0 to 40°C
Thread	Uni thread JIS B 0209 Class 2 (Metric coarse thread)
Seal (Thread portion)	Gasket
Copper-free	Brass parts are all electroless nickel plated.
Surface resistance	10^4 to $10^7 \Omega$

Male Connector: KAH

<M5, M6>



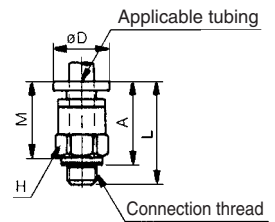
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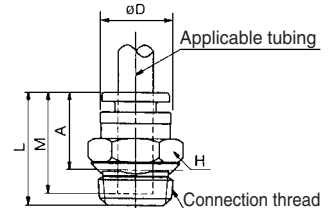
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	A*	M	Effective area (mm ²)		Weight (g)
								Soft nylon	Urethane	
3.2	M5 x 0.8	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1
	M6 x 1	KAH23-M6	8		17.5					
	1/8	KAH23-U01	10		12.5					
4	M5 x 0.8	KAH04-M5	8	9.5	17	14	13	4	4	2
	M6 x 1	KAH04-M6			17.5					
	1/8	KAH04-U01			18.5			5.6	5.6	5
	1/4	KAH04-U02			16.5					
6	M5 x 0.8	KAH06-M5	10	11.5	18.5	15	14	4	4	3
	M6 x 1	KAH06-M6			19					
	1/8	KAH06-U01			19.5		17	13.1	13.1	5
	1/4	KAH06-U02			13					
	3/8	KAH06-U03			17.5					
8	1/8	KAH08-U01	14	14	25	20.5	18.5	18.0	18.0	11
	1/4	KAH08-U02			21.5					
	3/8	KAH08-U03			19.5					
	1/2	KAH10-U04			22					
10	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	17
	1/4	KAH10-U02			24					
	3/8	KAH10-U03			22					
	1/2	KAH10-U04			22					
	1/4	KAH12-U02			30.5	24.5	22	46.1	46.1	22
12	3/8	KAH12-U03	19	19	25.5					
	1/2	KAH12-U04			24.5					

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>



K□

M□

H□

D□

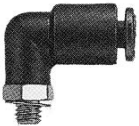
MS

T□

VMG

Male Elbow: KAL

<M5, M6>



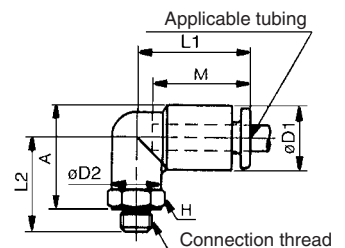
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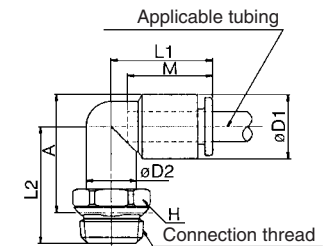
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)
										Soft nylon	Urethane	
3.2	M5 x 0.8	KAL23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	6
	M6 x 1	KAL23-M6			10		15.5					
	1/8	KAL23-U01			10		19.5					
4	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			10		16					
	1/8	KAL04-U01			10		20			4.2	4.2	8
	1/4	KAL04-U02			14		22					
6	M5 x 0.8	KAL06-M5	10	12.8	8	20	16	18	17	3.5	3.5	6
	M6 x 1	KAL06-M6			10		16.5					
	1/8	KAL06-U01			10		21.5			11.4	11.4	9
	1/4	KAL06-U02			14		23					
	3/8	KAL06-U03			17		24					
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					
	3/8	KAL08-U03			17		25.5					
	1/2	KAL10-U04			22		30					
10	1/8	KAL10-U01	17	18.5	17	26.5	25	29.5	21	14.9	14.9	24
	1/4	KAL10-U02			17		26.5					
	3/8	KAL10-U03			22		27			25.0	25.0	25
	1/2	KAL10-U04			22		30					
	1/4	KAL12-U02			27	28.5	31.5	22	39.7	39.7	39.7	23
12	3/8	KAL12-U03	17	20.9	17		28					
	1/2	KAL12-U04			22		31					

* Reference dimensions after Uni thread installation.

<M5, M6>



<Uni thread>



⚠ Precautions

Be sure to read before handling.
Refer to pages 15-18-3 to 15-18-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 15-1-10 to 15-1-11 for Precautions on every series.

⚠ Caution

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

