

Antistatic One-touch Fittings

Series KA

One-touch fitting with antistatic prevention

One-touch IN/OUT connection.

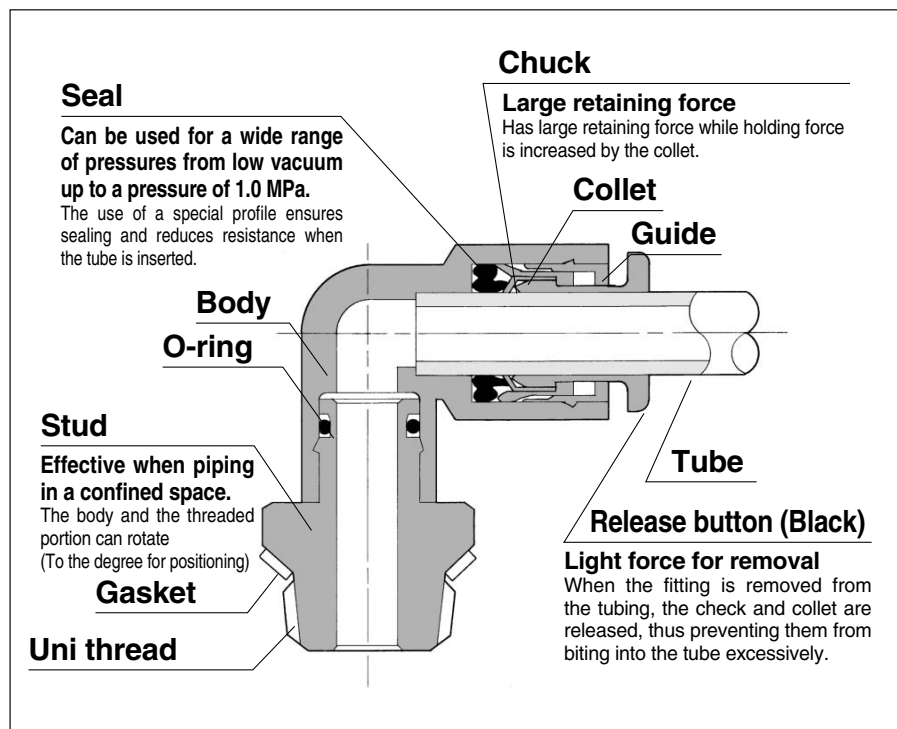
Possible to use from vacuum (–100 kPa).

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>



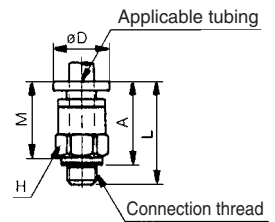
<Uni thread>



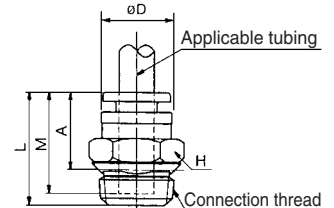
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD	L	A*	M	Effective area (mm ²)		Weight (g)					
								Soft nylon	Urethane						
3.2	M5 x 0.8	KAH23-M5	7	8.5	17	14	13	3.4	2.9	2.1					
	M6 x 1	KAH23-M6	8		17.5										
	1/8	KAH23-U01	10		12.5						8.5				
4	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			10						18.5	13.5	5.6	5.6	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			19										
	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						18.5	18.0	18.0	11
1/4	KAH08-U02	21.5		15.5	27										
3/8	KAH08-U03	17		19.5	13.5	33									
10	1/8	KAH10-U01	17	17	28	23	21	29.5	29.5	17					
	1/4	KAH10-U02			22	14				14					
	3/8	KAH10-U03			24	18				28					
	1/2	KAH10-U04			22	22				14	28				
12	1/4	KAH12-U02	19	19	30.5	24.5	22	46.1	46.1	22					
	3/8	KAH12-U03			25.5	19.5				16					
	1/2	KAH12-U04			22	24.5				16.5	28				

* Reference dimensions after Uni thread installation.

<M5, M6>

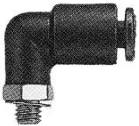


<Uni thread>



Male Elbow: KAL

<M5, M6>



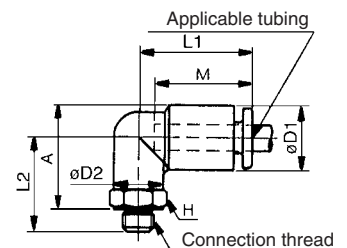
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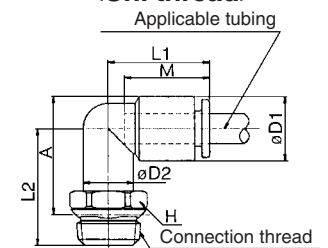
Applicable tubing O.D. (mm)	Connection thread M thread Uni thread	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm ²)		Weight (g)
										Soft nylon	Urethane	
3.2	M5 x 0.8	KAL23-M5	8	9.6	8	17.5	15	16	15.5	3.4	2.9	6
	M6 x 1	KAL23-M6	10		15.5		7					
	1/8	KAL23-U01	10		19.5		21					8
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		5					
	1/8	KAL04-U01	10		20		20.5			4.2	4.2	8
	1/4	KAL04-U02	14		22		21.5					14
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	10		16.5		5					
	1/8	KAL06-U01	10		21.5		23.5			11.4	11.4	9
	1/4	KAL06-U02	14		23							15
	3/8	KAL06-U03	17		24							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					16
	3/8	KAL08-U03	17		25.5		27					24
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		30					21
	3/8	KAL10-U03	17		27		30.5			25.0	25.0	25
	1/2	KAL10-U04	22		30		31.5					45
12	1/4	KAL12-U02	17	20.9	17	28.5	27	31.5	22	39.7	39.7	23
	3/8	KAL12-U03	17		28		32.5					27
	1/2	KAL12-U04	22		31		33.5					48

* 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.

