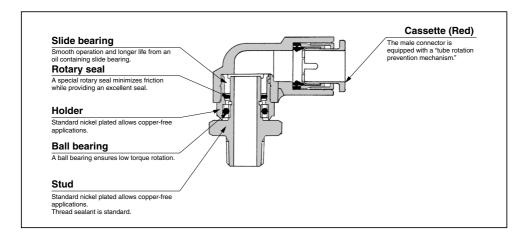
Inch size Rotary One-touch Fittings Standard Type

KS Series

Applicable Tubing: Inch Size



Low-torque rotation type rotary One-touch fittings

Applicable to use for oscillating and rotating sections in robots.

Brass parts are electroless nickel plated.

Sealant is standard.



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø 5/32", ø 1/4", ø 5/16", ø 3/8"

Specification

Air
-100 kPa to 1 MPa
3 MPa
-5 to 60°C (No freezing)
ANSI/ASMEB1. 20. 1 (NPT thread)
JIS B 0212 (UNF thread)
With thread sealant
Electroless nickel plated

Note 1) Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.
Also, when using in a vacuum, grease may enter the inside due to the nature of its construction.

Rotating Torque/Allowable Number of Rotations

Applicable tubing O.D.	ø5/32"	ø1/4"	ø5/16"	ø3/8"
Rotating torque (N·m) (2)	0.006	0.012	0.014	0.020
Allowable number of rotations (S-1) (3)	8.3	8.3	6.7	5

Note 2) Rotating torque under pressure 0.5 MPa Note 3) Number of rotations per second

Driveinal Davis Material

Principal Parts Material	
Principal parts	KS Series
Body	PBT
Stud, Holder, Guide	Stainless steel 304, C3604 (With electroless nickel plated), PBT
Chuck, Retainer	Stainless steel 304
Collet, Release button, Retaining ring	Polyacetal
O-ring, Packing	NBR
Rotary seal	NBR
Slide bearing	Oil-containing polyacetal
Scraper	_
Ball bearing	Bearing steel
Gasket	Stainless steel 304, NBR



KS Series

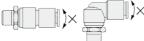
Model	Connection thread		Applicable tubing O.D. (inch)								
Model	Connection thread	ø5/32"	ø1/4 "	ø5/16"	ø3/8"						
		.									
Male connector KSH	10-32 UNF	+									
	NPT 1/8	+	-	+							
	NPT 1/4			-	+						
	NPT 3/8										
Male elbow KSL	10-32 UNF	\vdash									
	NPT 1/8	+	+	<u> </u>							
#	NPT 1/4		<u> </u>	_							
	NPT 3/8										

⚠ Precautions

- Be sure to read this before handling the products.
- Refer to page 11 for safety instructions and pages 14 to 18 for
- fittings and tubing precautions.

⚠ Caution

- Implement the tube piping in such a way that lateral load should not be applied on the ball bearings at the rotating part, otherwise it may adversely affect the life expectancy.
 - A flexible polyurethane tube is recommended when lateral load is applied.



- Do not use in an environment where it will be exposed to water.Contact with water will cause outflow of the lubricating oil used in the ball bearings, and adversely affect rotating performance and equipment lifespan.
- 3. Fluorine based grease is used on the rotating portions.

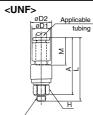
KS Series

Male Connector: KSH (Standard)

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100

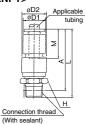
Applicable tubing O.D. (inch)	Connection thread UNF NPT		(Width across flats)	D1	D2	L	A *	М	Min. port size	Effectiv (m) Nylon	m²)	Weight (g)	
5/32	10-32 UNF	KSH03-32	8	10.4	0.4 12	36.5	33	16	2.5	4.0	4.0	9	
	1/8	KSH03-34S	12.7			37.6	34.5					14	
1/4	1/8	KSH07-34S	14.29	13.2	14	38.6	35.5	17	4	13.4	10.4	17	
	1/4	KSH07-35S				42	36.5					23	
5/16	1/8	KSH09-34S	17.46	15.2	17	43.1	40	18.5	6	26.1	18.0	23	
	1/4	KSH09-35S				46.5	41					29	
3/8	1/4	KSH11-35S	22.23	17.9	22	53.5	48	21	7	36.3	29.5	55	
	3/8	KSH11-36S	22.20		22	53.9	48.5	۱ ۲				63	
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^{*} Reference dimensions after NPT thread installation.



Connection thread





<NPT>



Male Elbow: KSL (Standard)

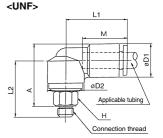
<UNF>

<NPT>

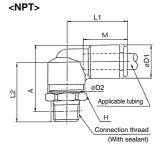


	tubing O.D.	thread		(Width	D1	D2	11	12	A *	м	Min. port	(mm²)		Weight	
	(inch)	UNF NPT	, mode.	across flats)			ļ-:		•		size	Nylon	Urethane	(g)	
	5/32	10-32 UNF	KSL03-32	8	10.4	12	21	20.5	22	16	2.5	3.5	3.5	9	
١	932	1/8	KSL03-34S	12.7	10.4		l – ·	21.1	23.5	1	2.5	3.5	3.5	14	
	1/4	1/8	KSL07-34S	14.29	13.2	14	22 5	22.1	25.5	17	4	8.6	8.6	17	
	74	1/4	KSL07-35S	14.29	13.2	14	23.5	25.5	26.5	17	4	0.0	0.0	23	
	5/16	1/8	KSL09-34S	17.46	15.2	17	26	25.6	30	18.5	6	21.6	14.9	23	
	9/16	1/4	KSL09-35S	17.40		٠. ا	1 ' 1	29	31		0	21.0	14.5	29	
	3/8	1/4	KSL11-35S	22.23	170	22	21 5	33.5	37	21	7	30.5	25.0	56	
	9/8	3/8	KSL11-36S	22.20	17.9	22	31.5	33.9	38	21	· /	30.5	25.0	64	

^{*} Reference dimensions after NPT thread installation.







Click here for applicable color caps.