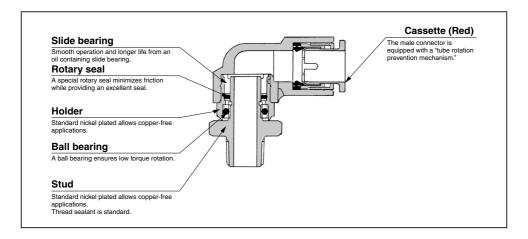
Inch size Rotary One-touch Fittings Standard Type

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

Fluid	Air						
Operating pressure range 1)	-100 kPa to 1 MPa						
Proof pressure	3 MPa						
Ambient and fluid temperature	-5 to 60°C (No freezing)						
Thoras	ANSI/ASMEB1. 20. 1 (NPT thread)						
Thread	JIS B 0212 (UNF thread)						
Seal on the threads (Standard)	With thread sealant						
Brass parts surface treatment (Standard)	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

Principal Parts 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 timeau	ø5/32"	ø1/4"	ø5/16"	ø3/8"							
Male connector KSH	10-32 UNF	+										
Ü	NPT 1/8	+	-	+	_							
	NPT 1/4		+	+	-							
	NPT 3/8				-							
Male elbow KSL	10-32 UNF	<u> </u>			_							
	NPT 1/8	+	+	+	-							
#	NPT 1/4		-	-	-							
	NPT 3/8				-							

⚠Precautions

Be sure to read this before handling the products.

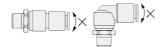
Refer to back page 50 for Safety Instructions and pages 13 to 17

for Fittings and Tubing Precautions.

⚠ Caution

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.

KQ2

KQB2

ΚΧ

KF

M H/DL L/LL

KC

KK

KK130

DM KDM

KB

KR

KA KQG2

KG

KFG2

MS

KKA KP

LQ

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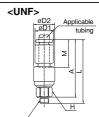
KS Series

Male Connector: KSH (Standard)

UNF>	
-	
111	

tubing O.D.	thread	Model	(Width across	D1	D2	L	A *	м	port	(mı		Weight	
(inch)	UNF NPT		flats)						size	Nylon	Urethane	(g)	
5/32	10-32 UNF	KSH03-32	8	104	104112 -	36.5	33	16	2.5	4.0	4.0	9	
9/32	1/8	KSH03-34S	12.7			37.6	34.5					14	
1/4	1/8	KSH07-34S	14.29	14.00	14 00 12 2	13.2 14	38.6	35.5	.5	4	13.4	10.4	17
74	1/4	KSH07-35S		13.2	14	42	36.5	17	*	15.4	10.4	23	
5/16	1/8	KSH09-34S	17.40	15.2	5.2 17	43.1	40	18.5	6	26.1	18.0	23	
9/16	1/4	KSH09-35S	17.40			46.5	41					29	
3/8	1/4	KSH11-35S	22.23	17.0	22	53.5	48	21	7	36.3	29.5	55	
78	3/8	KSH11-36S	22.23	17.9	1.8 22	53.9	48.5					63	
Defended disconsistent of a NDT through installation													

^{*} Reference dimensions after NPT thread installation.



Connection thread

<NPT>



<npt></npt>				
	D2 D1	Ap	plica	able oing
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Connecti	on thre	ead	<u>'</u>	
(With sea			_,	

Male Elbow: KSL (Standard)

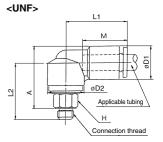
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<NPT>

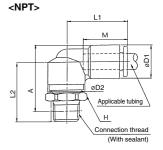


	tubing O.D. (inch)	thread UNF NPT	Model	(Width across flats)	D1	D2	L1	L2	A *		Min. port size	(mi	m²)	Weight (g)
	5/32	10-32 UNF	KSL03-32	8	10.4	12	21	20.5	22	16	2.5	3.5	3.5	9
	9/32	1/8	KSL03-34S	12.7				21.1	23.5					14
	1/4	1/8	KSL07-34S	14.29	13.2	14	23.5	22.1	25.5	17	4	8.6	8.6	17
		1/4	KSL07-35S					25.5	26.5					23
	5/16	1/8 KSL09-34	KSL09-34S	47.40	15.2		17 26	25.6	30	18.5	6	21.6	14.9	23
	9/16	1/4	KSL09-35S	17.40				29	31					29
	3/8	1/4	KSL11-35S	22.23	17.0	22	21 5	33.5	37	21	7	30.5	25.0	56
	%8	3/8	KSL11-36S	22.20	17.9	1.9 22	22 31.5	33.9	9 38	21	'	30.5	25.0	64

^{*} Reference dimensions after NPT thread installation.







Click here for applicable color caps.