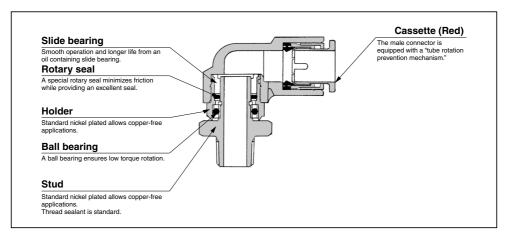
Inch size Rotary One-touch Fittings Standard Type

KS Series

Applicable Tubing: Inch Size



Low-torque rotation type rotary One-touch fittings

Applicable to use for oscillating and rotating sections in robots.

Applicable to non-copper type (With electroless nickel plated)

Thread sealant is standard.



Male connector

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

opcomoation	
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)
Thread	ANSI/ASMEB1. 20. 1 (NPT thread)
Inread	JIS B 0212 (UNF thread)

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.

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

i ilicipai i aito materiai	
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										
	NPT 1/8	+	+	<u> </u>							
	NPT 1/4			-	-						
	NPT 3/8				-						

Be sure to read this before handling the products.

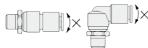
Refer to back page 50 for Safety Instructions and pages 13 to 17

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

KX

KF

M H/DL L/LL

KC

KK

KK130

DM KDM

KB

KR

KA KQG2

KG

KFG2

MS

KKA KP

LQ

MQR

IDK

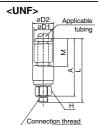
KS Series

Male Connector: KSH (Standard)

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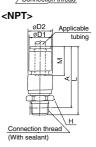
Applicable tubing O.D.	thread	Madal	(Width D1 D2 L		L	A * M		Min. port	Effectiv (m)		Weight	
(inch)	UNF NPT	, , , , , , , , , , , , , , , , , , ,	ácross flats)						size	Nylon	Urethane	(g)
5/30	10-32 UNF	KSH03-32	8 12.7	10.4	04112 +	36.5	33	16	2.5	4.0	4.0	9
9/32	1/8	KSH03-34S				37.6	34.5					14
1/4	1/8	KSH07-34S	14.29	13.2	.2 14	38.6	35.5	17	4	13.4	10.4	17
1/4	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
916	1/4	KSH09-35S	17.40		17	46.5	41					29
3/8	1/4	KSH11-35S	22.23	17.0	791221	53.5	48	21	7	36.3	00.5	55
9/8	3/8	KSH11-36S	22.23	17.9		53.9	48.5				29.5	63
		_					4.					

^{*} Reference dimensions after NPT thread installation.



<NPT>





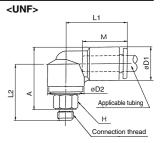
Male Elbow: KSL (Standard)

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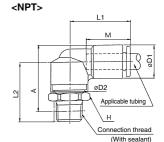
	tubing O.D. (inch)	thread UNF NPT	Model	(Width across flats)	D1	D2	L1	L2	A *	М	Min. port size	(mi Nylon	m²)	Weight (g)			
	5/32	10-32 UNF	KSL03-32	8	8 40.4	8 10.4	10.4	0.4 12	2 21	20.5	22	16	2.5	3.5	3.5	9	
9/32	1/8	KSL03-34S	12.7	10.4			21.1	23.5		2.5	3.5	3.5	14				
ļ	1/4	1/8	KSL07-34S	14.29	13.2	14	23.5	22.1	25.5	17	4	8.6	8.6	17			
1/4	1/4	KSL07-35S	14.29	10.2	14	23.3	25.5	26.5	17	4	0.0	0.0	23				
	5/16	1/8	KSL09-34S	47.40	15.2	5.2 17	26	25.6	30	18.5	6	21.6	14.9	23			
9/16	1/4	KSL09-35S	17.46		١		29	31		"	21.0	14.9	29				
3/8	1/4	KSL11-35S	22.23	17.9	9 22	22 31.5	33.5	37	21	7	30.5	25.0	56				
	3/8	KSL11-36S	22.23	17.5			33.9	38				25.0	64				

^{*} Reference dimensions after NPT thread installation.



<NPT>





Click here for applicable color caps.