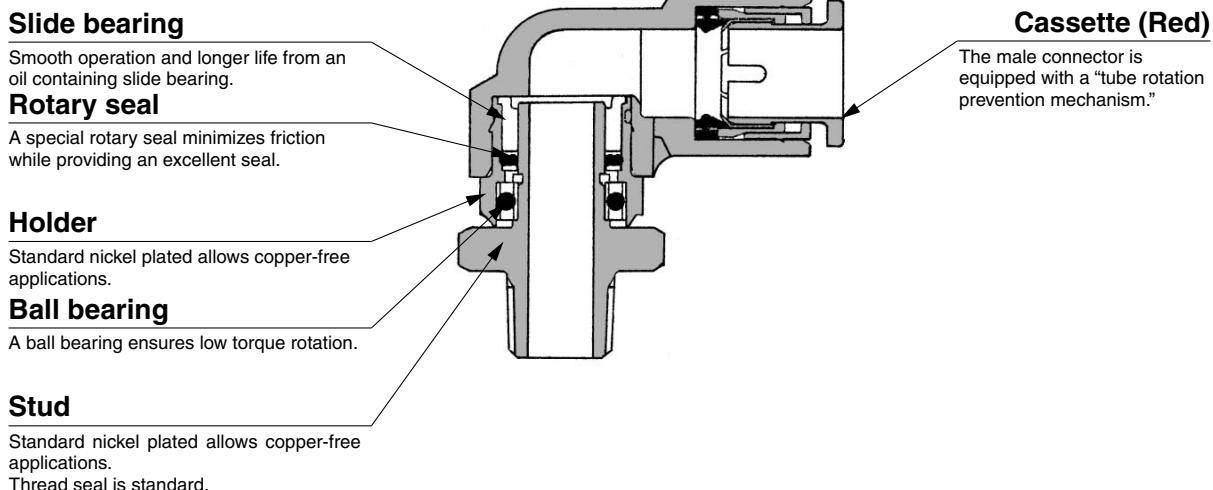


Inch-size Rotary One-touch Fittings Standard Type

Series KS

Applicable Tubing: Inch Size



Low-torque rotation style rotary One-touch fittings

Applicable to use for
oscillating and rotating
sections in robots.

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

Thread seal is standard.



Applicable Tubing

Tubing material Note)	Nylon, Soft nylon, Polyurethane
Tubing O.D.	$\varnothing 5/32"$, $\varnothing 1/4"$, $\varnothing 5/16"$, $\varnothing 3/8"$

Note) Monitor max.operating pressure for soft nylon and polyurethane tubing.

Specification

Fluid	Air
Maximum operating pressure	1.0 MPa
Operating vacuum pressure	-100 kPa
Proof pressure	3.0 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Thread	ANSI/ASME B1.20.1-1983 (NTP thread) JIS B 0212 2A, Class 2B (UNF thread)

Rotating Torque/Allowable Number of Rotations

Applicable tubing O.D.	$\varnothing 5/32"$	$\varnothing 1/4"$	$\varnothing 5/16"$	$\varnothing 3/8"$
Rotating torque (N·m) Note)	0.006	0.012	0.014	0.020
Allowable number of rotations (S ⁻¹)	8.3	8.3	6.7	5

Note) Rotating torque under pressure 0.5 MPa

Principal Parts Material

Body	PBT
Stud, Holder, Guide	Stainless steel 304, C3604BD (With electroless nickel plated)
Chuck, Retainer	Stainless steel 304
Collet, Release button, Snap ring	Polyacetal
O-ring, Packing	NBR
Rotary seal	NBR
Slide bearing	Oil-containing polyacetal
Scraper	—
Ball bearing	Bearing steel
Gasket	Stainless steel 304, NBR

Series KS

Model	Connection thread	Applicable tubing O.D. (inch)			
		$\varnothing 5/32"$	$\varnothing 1/4"$	$\varnothing 5/16"$	$\varnothing 3/8"$
Male connector KSH	10-32 UNF	●			
	NPT 1/8	●	●	●	
	NPT 1/4		●	●	●
	NPT 3/8				●
Male elbow KSL	10-32 UNF	●			
	NPT 1/8	●	●	●	
	NPT 1/4		●	●	●
	NPT 3/8				●

K□

M□

H□

D□

MS

T□

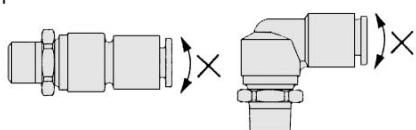
VMG

⚠ 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

1. Implement the tube piping in such a way that the lateral load should not be applied. Although ball bearing is adopted, however if the lateral load were applied on it, it may adversely affect the life expectancy. A flexible polyurethane tube is recommended when the lateral load is applied.



Series KS

Male Connector: KSH (Standard)

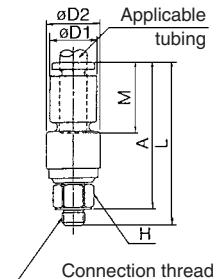
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Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	D1	D2	L	A *	M	Effective area (mm²)		Weight (g)	
									Nylon	Urethane		
5/32	10-32 UNF	KSH03-32	8	10.4	12	36.5	33	16	2.5	4.0	4.0	9
	1/8	KSH03-34S	12.7			38.5	34.5			4.0	4.0	14
1/4	1/8	KSH07-34S	14.29	13.2	14	39.5	35.5	17	4	13.4	10.4	17
	1/4	KSH07-35S				42.5	36.5			10.4	23	23
5/16	1/8	KSH09-34S	17.46	15.2	17	44	40	18.5	6	26.1	18.0	23
	1/4	KSH09-35S				47	41			18.0	29	29
3/8	1/4	KSH11-35S	22.23	17.9	22	54	48	21	7	36.3	29.5	55
	3/8	KSH11-36S				55	48.5			29.5	63	63

* Reference dimensions after NPT thread installation.

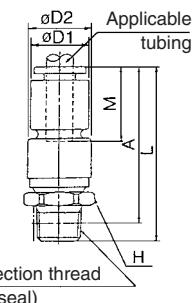
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<NPT>

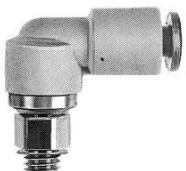


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Male Elbow: KSL (Standard)

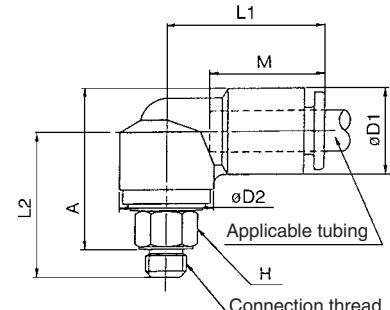
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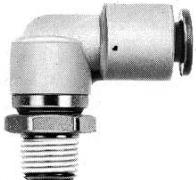
Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	D1	D2	L1	L2	A *	M	Effective area (mm²)		Weight (g)	
										Nylon	Urethane		
5/32	10-32 UNF	KSL03-32	8	10.4	12	21	20.5	22	16	2.5	3.5	3.5	9
	1/8	KSL03-34S	12.7			22	23.5	23			3.5	3.5	14
1/4	1/8	KSL07-34S	14.29	13.2	14	23.5	23	25.5	17	4	8.6	8.6	17
	1/4	KSL07-35S				26	26.5	26.5			8.6	23	23
5/16	1/8	KSL09-34S	17.46	15.2	17	26	26.5	30	18.5	6	21.6	14.9	23
	1/4	KSL09-35S				29.5	31	31			14.9	29	29
3/8	1/4	KSL11-35S	22.23	17.9	22	31.5	34	37	21	7	30.5	25.0	56
	3/8	KSL11-36S				35	38	38			25.0	64	64

* Reference dimensions after NPT thread installation.

<UNF>



<NPT>



<NPT>

