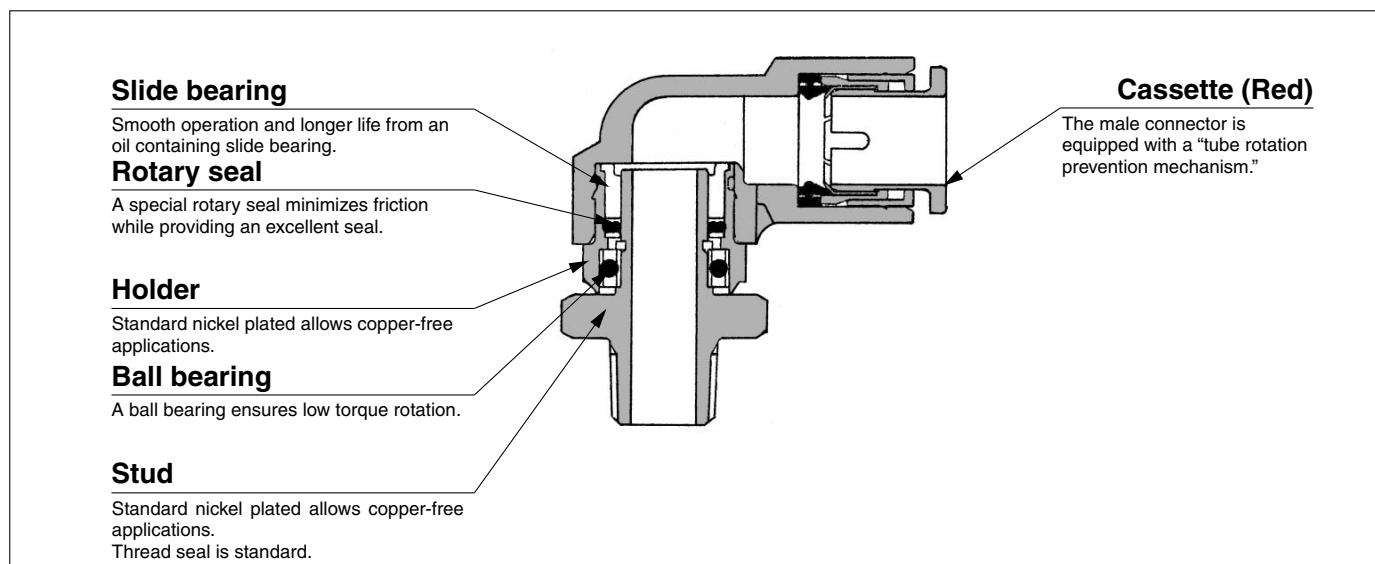


Inch-size Rotary One-touch Fittings Standard Type

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.



Male connector

Male elbow

Applicable Tubing

Tubing material ^{Note)}	Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø 5/32", ø 1/4", ø 5/16", ø 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.	ø 5/32"	ø 1/4"	ø 5/16"	ø 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

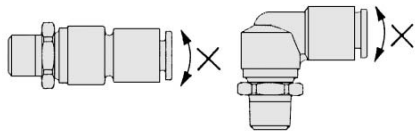
Model	Connection thread	Applicable tubing O.D. (inch)			
		$\phi 5/32"$	$\phi 1/4"$	$\phi 5/16"$	$\phi 3/8"$
Male connector KSH 	10-32 UNF	●			
	NPT 1/8	●	●	●	
	NPT 1/4		●	●	●
	NPT 3/8				●
Male elbow KSL 	10-32 UNF	●			
	NPT 1/8	●	●	●	
	NPT 1/4		●	●	●
	NPT 3/8				●

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

- 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 polyurethan tube is recommended when the lateral load is applied.



K ☐

M ☐

H ☐

D ☐

MS ☐

T ☐

VMG ☐

Series KS

Male Connector: KSH (Standard)

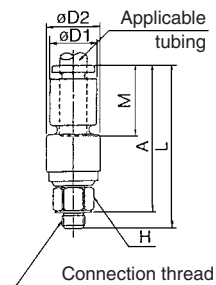
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Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	D1	D2	L	A *	M	Min. port size	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
5/32	10-32 UNF	KSH03-32	8	10.4	12	36.5	33	16	2.5	4.0	4.0	9
	1/8	KSH03-34S	12.7			38.5	34.5					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					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					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					63

* Reference dimensions after NPT thread installation.

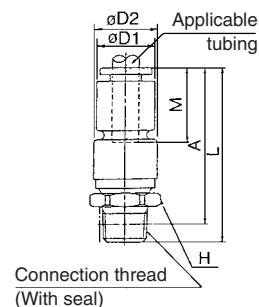
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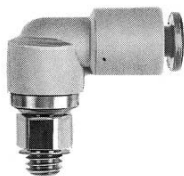


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Male Elbow: KSL (Standard)

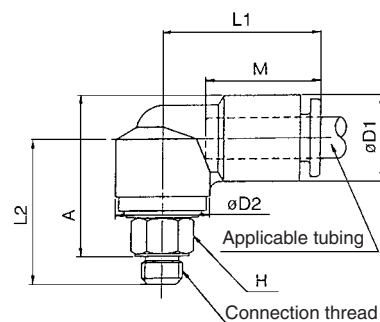
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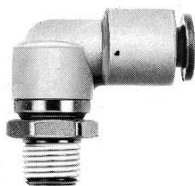
Applicable tubing O.D. (inch)	Connection thread UNF NPT	Model	H (Width across flats)	D1	D2	L1	L2	A *	M	Min. port size	Effective area (mm ²)		Weight (g)
											Nylon	Urethane	
5/32	10-32 UNF	KSL03-32	8	10.4	12	21	20.5	22	16	2.5	3.5	3.5	9
	1/8	KSL03-34S	12.7				22	23.5					14
1/4	1/8	KSL07-34S	14.29	13.2	14	23.5	23	25.5	17	4	8.6	8.6	17
	1/4	KSL07-35S					26	26.5					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					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					64

* Reference dimensions after NPT thread installation.

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