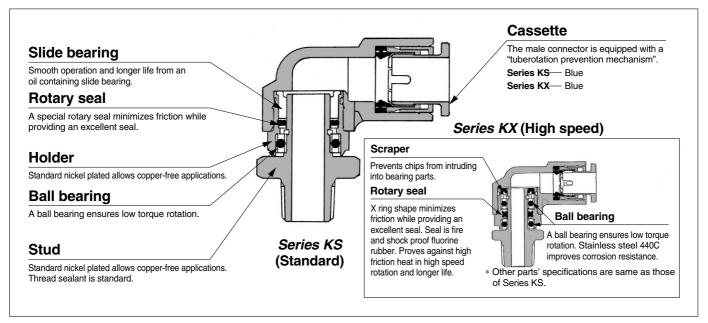


# Rotary One-touch Fittings Standard Type/High Speed Type Series KS/KX



Low torque rotation style Rotary One-touch fittings

Applicable to use for oscillating and rotating sections in robots.

Copper-free specifications Brass parts are all electroless nickel plated.

Thread seal is standard.



#### **Applicable Tubing**

Tubing material Note)	Nylon, Soft nylon, Polyurethane								
Tubing O.D.	ø4, ø6, ø8, ø10, ø12								
Note) Use caution about the max. operating pressure for soft nylon and polyurethane.									

#### **Specifications**

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	JIS B 0203 (Taper thread for piping), JIS B 0209, class 2 (Metric coarse thread)

#### **Rotating Torque/Allowable Number of Rotations**

Applicable tubing O.D.	ø4	ø6	ø8	ø10	ø12	
Rotating torque (N·m) Note)	0.006	0.012	0.014	0.020	0.022	
Allowable number of rotations	Series KS	8.4	8.4	6.7	5	4.2
Allowable Humber of Totations	Series KX	25	20	20	16.7	16.7

Note) Rotating torque under pressure 0.5 MPa

## **Principal Parts Material**

Model	Series KS	Series KX				
Body	PBT					
Stud, Holder, Guide	e C3604BD (Electroless nickel pla					
Chuck, Retainer	Stainless steel (Stainless steel 304) (1) (Retainer (C) of Series KX: C3604BD (electroless nickel plated))					
Collet, Release button, Snap ring	Polyacetal					
O-ring, Packing	NBR					
Rotary seal	NBR	FPM				
Slide bearing	Oil-containing polyacetal	_				
Scraper	_	NBR				
Ball bearing	Bearing steel Stainless steel 4400					
Gasket	Stainless steel (Stain	less steel 304), NBR				



# Rotary One-touch Fittings Series KS/KX

## Male Elbow: KSL (Standard)

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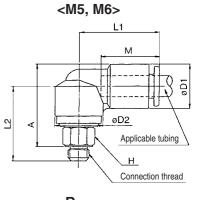






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Applicable tubing O.D. (mm)	Connection thread <b>R</b>	Model	(width across flats)	D1	D2	L1	L2	А	М	Min. port size	Effectiv (mi	ve area m²) Urethane	Weight (g)
	M5 x 0.8	KSL04-M5	8	10.4	.4 12	12 21	20.5	22	16	2.5	3.5	3.5	9
4	M6 x 1	KSL04-M6	0				21	22					
	1/8	KSL04-01S	12				22	23.5					14
	M5 x 0.8	KSL06-M5	8		14	23	21	23.5	17	2.5	3.5	3.5	10
_	M6 x 1	KSL06-M6	14	12.8			21.5	24		3	5.0	5.0	12
6	1/8	KSL06-01S					23	25.5		4	8.6	8.6	17
	1/4	KSL06-02S					26	26.5					23
	1/8	KSL08-01S	17	15.2	17	7 26	26.5	30	18.5	6	21.6	14.9	23
8	1/4	KSL08-02S					29.5	31					29
	3/8	KSL08-03S					31	32					38
	1/4	KSL10-02S					34	37.5			30.5		56
10	3/8	KSL10-03S	22	18.5	22	31.5	35	38	21	7		25.0	64
	1/2	KSL10-04S					38	39.5					82
12	3/8	KSL12-03S	24	20.9	24	34	36.5	40.5	22	8	35.1	35.1	76
	1/2	KSL12-04S					39.5	42					93
* Deference dimensions after B thread installation													

<sup>\*</sup> Reference dimensions after R thread installation.



K□

 $\mathsf{M}\square$ 

 $H\square$ 

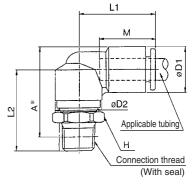
 $\mathsf{D}\square$ 

MS

 $\mathsf{T}\Box$ 

**VMG** 

<R>



# Male Elbow: KXL (High speed)







-	(mign	speed	)												
	Applicable tubing O.D.	Connection thread	Model	H (width across	D1	D2	L1	L2	Α	м	Min. port	Effective area (mm²)		Weight	
	(mm)	R		flats)							size	Nylon	Urethane	(g)	
		M5 x 0.8	KXL04-M5	8				22.5	0.4	24 16	2.5	3.5	3.5	11	
	4	M6 x 1	KXL04-M6	0	10.4	).4 13	3   22	23	24					' '	
		1/8	KXL04-01S	<b>L04-01S</b> 12			24	25					16		
		M5 x 0.8	KXL06-M5	۵	12.8	15	24	23.5	26		2.5	3.5	3.5	4.5	
	6	M6 x 1	KXL06-M6	14				24	20	17	3	5.0	5.0	15	
	O	1/8	KXL06-01S					25	28		4	8.6	8.6	20	
		1/4	KXL06-02S					28	29					26	
		1/8	KXL08-01S			15.2 18	8 27	29	32		6	21.6	14.9	28	
	8	1/4	KXL08-02S	17	15.2			32	33	18.5				34	
		3/8	KXL08-03S					33	34					43	
		1/4	KXL10-02S					38			7	30.5		69	
	10	3/8	KXL10-03S	22	18.5	23.5	32	39	42	21			25.0	77	
		1/2	KXL10-04S					42	43					95	
	12	3/8	KXL12-03S	24	04 000	20.9	000	6 35	40	44	22	8	05.4	05.4	89
	12	1/2	KXL12-04S		20.9	26	၂၁၁	43	45	22	0	35.1	35.1	106	

\* Reference dimensions after R thread installation.

