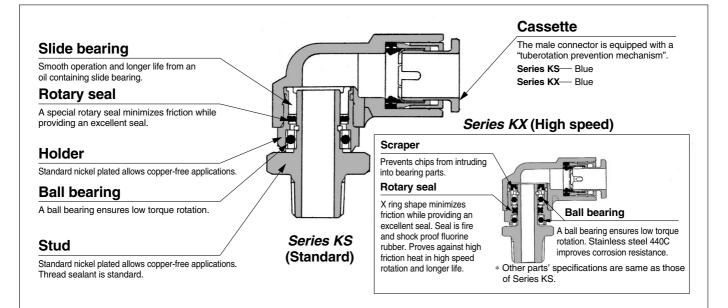
Rotary One-touch Fittings Standard Type/High Speed Type Series KS/KX



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 pre-	ssure 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				
	Series KX	25	20	20	16.7	16.7				

Note) Rotating torque under pressure 0.5 MPa

Principal Parts Material

Series KS	Series KX					
PBT						
C3604BD (Electroless nickel plated), Stainless steel 30						
Stainless steel (Stainless steel 304) ⁽¹⁾ (Retainer (C) Series KX: C3604BD (electroless nickel plated))						
Polyacetal						
NBR						
NBR FPM						
Oil-containing polyacetal	_					
_	NBR					
Bearing steel	Stainless steel 440C					
Stainless steel (Stainless steel 304), NBR						
	PE C3604BD (Electroless nicke Stainless steel (Stainless st Series KX: C3604BD (el Polya NBR NBR Oil-containing polyacetal — Bearing steel					



Rotary One-touch Fittings Series KS/KX

Male Elbow: KSL (Standard)

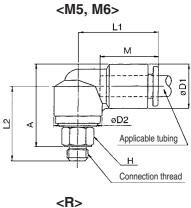
<M5, M6>

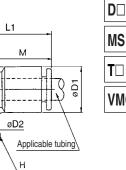






	aaraj															
Applicable tubing O.D.	Connection thread	Model	H (width across	D1	D2	L1	L2	A	м	Min. port	Effective area (mm²)		Weight (g)			
(mm)	R		flats)							size	Nylon	ylon Urethane				
	M5 x 0.8	KSL04-M5	8	10.4	.4 12		20.5	22	16	2.5	3.5	3.5	9			
4	M6 x 1	KSL04-M6	0			21	21						Э			
	1⁄8	KSL04-01S	12				22	23.5					14			
	M5 x 0.8	KSL06-M5	8 12.8				21	23.5		2.5	3.5	3.5	12			
6	M6 x 1	KSL06-M6		-	-	-	10.0	14	23	21.5	24	17	3	5.0	5.0	12
0	1⁄8	KSL06-01S		12.0	2.0 14	23	23	25.5	17	4	8.6	8.6	17			
	1/4	KSL06-02S					26	26.5					23			
	1⁄8	KSL08-01S		15.2	2 17	7 26	26.5	30	18.5	6	21.6	14.9	23			
8	1/4	KSL08-02S	17				29.5	31					29			
	3⁄8	KSL08-03S					31	32					38			
	1/4	KSL10-02S				22 31.5	34	37.5	21		30.5		56			
10	3⁄8	KSL10-03S	22	18.5	22		35	38		7		25.0	64			
	1/2	KSL10-04S	1				38	39.5					82			
10	3⁄8	KSL12-03S	24		24		36.5	40.5	22	8	05.4	05.4	76			
12	1/2	KSL12-04S	24 20.9	0.9 24	34	39.5	42	22	0	35.1	35.1	93				
* Reference dimensions after R thread installation.																





Connection thread (With seal)

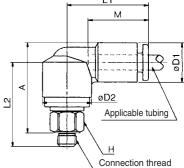
Male Elbow: KXL (High speed)

	<u> </u>	<u> </u>)												
<m5, m6=""></m5,>	Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	D1	D2	L1	L2	A	м	Min. port size	(m	ve area m²) Urethane	Weight (g)	
	4	M5 x 0.8	KXL04-M5	8	10.4	.4 13	3 22	22.5 23	24 25	10	2.5		3.5	11	
	4	M6 x 1 1⁄8	KXL04-M6 KXL04-01S	12				23		16				16	
¥		M5 x 0.8	KXL06-M5	8	- 12.8	3 15		23.5		17	2.5	3.5	3.5		
	6	M6 x 1	KXL06-M6	8			24	24	26		3	5.0	5.0	15	
		1⁄8	KXL06-01S	14			24	25	28		4	8.6	8.6	20	
		1/4	KXL06-02S					28	29		4			26	
		1/8	KXL08-01S			.2 18	27	29	32 33	18.5	6	21.6	14.9	28	
<r></r>	8	1/4	KXL08-02S	17	15.2			32						34	
(month and a second sec		3⁄8	KXL08-03S						34					43	
		1/4	KXL10-02S	22					38	42					69
	10	3/8	KXL10-03S		2 18.5	23.5	32	39		21	7	30.5	25.0	77	
		1/2	KXL10-04S					42	43					95	
	12	3⁄8	KXL12-03S	24	20.9	26	35		44	22	8	35.1	35.1	89	
		1/2	KXL12-04S		20.0	_ 0		43	45					106	

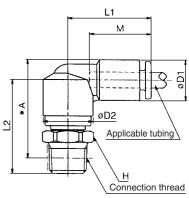
* Reference dimensions after R thread installation.



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KΠ

 $\mathsf{M}\square$

ΗD

VMG