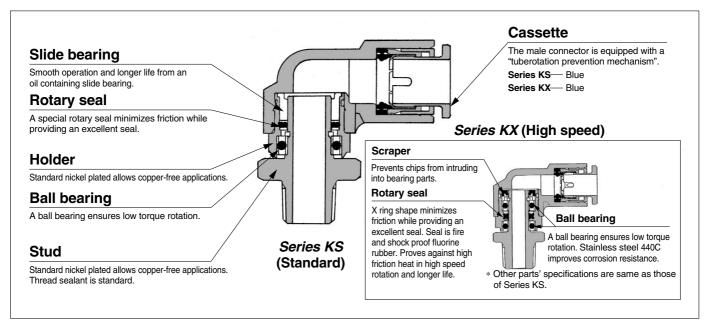


Rotary One-touch Fittings Standard Type/High Speed Type Series KS/KX



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 number of folations	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	PE	3T		
Stud, Holder, Guide	C3604BD (Electroless nicke	l plated), Stainless steel 304		
Chuck, Retainer	Stainless steel (Stainless st Series KX: C3604BD (e	eel 304) ⁽¹⁾ (Retainer (C) of lectroless nickel plated))		
Collet, Release button, Snap ring	Polya	acetal		
O-ring, Packing	NE	3R		
Rotary seal	NBR	FPM		
Slide bearing	Oil-containing polyacetal	_		
Scraper	_	NBR		
Ball bearing	Bearing steel	Stainless steel 440C		
Gasket	Stainless steel (Stain	less steel 304), NBR		



Series KS/Series KX

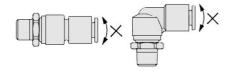
Model	Connection thread	Applicable tubing O.D. (mm)				
Model	Connection thread	ø4	ø6	ø8	ø10	ø12
Male connector KSH	M5 x 0.8	<u> </u>	•			
KXH	M6 x 1	-	•			
	R ½	+	•	-		
	R 1/4		•	+	<u> </u>	
	R 3/8			•	•	•
-	R 1/2				-	•
Male elbow KSL	M5 x 0.8	-	•			
KXL	M6 x 1	-	<u> </u>			
	R 1/8	<u> </u>	<u> </u>	<u> </u>		+
#	R 1/4		•	<u> </u>	-	
	R 3/8			—	—	•
	R ½				—	

⚠ 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 laterial load should not be applied on the ball bearings, otherwise it may adversely affect the life expectancy.
 A flexible polyurethane tube is recommended when the lateral load is applied.



K□











Series KS/KX

Male connector: KSH (Standard)

<M5, M6>



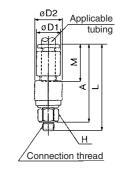




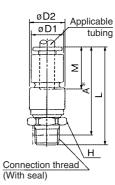
			•										
	Applicable tubing O.D. (mm)	Connection thread R	Model	(width across flats)	D1	D2	L	A	М	Min. port size	Effectiv (mr Nylon	m²)	Weight (g)
		M5 x 0.8	KSH04-M5				36.5	33	20				9
	4	M6 x 1	KSH04-M6	8	4	37	33	³³ 16	2.5	4.0	4.0	9	
		1/8	KSH04-01S	12			38	34					14
		M5 x 0.8	KSH06-M5	8 100 14	37.5	33.5		2.5	4.0	4.0	12		
	6	M6 x 1	KSH06-M6		-	14	38	34	17	3	5.6	5.6	12
	U	1/8	KSH06-01S	14			39.5	35.5		4	10.4	10.4	17
		1/4	KSH06-02S	'4			42.5	36.5					23
		1/8	KSH08-01S	H08-02S 17 1	15.2	5.2 17	44	40	18.5	6	26.1	18.0	23
	8	1/4	KSH08-02S				47	41					29
		3/8	KSH08-03S				48	41.5					37
		1/4	KSH10-02S	22	18.5	22	54	48	21	7	36.3	29.5	55
10	10	3/8	KSH10-03S				55	48.5					63
		1/2	KSH10-04S				57.5	49.5					81
	12	3/8	KSH12-03S	24	20.9	0.9 24	57	50.5	22	8	46.1	16.1	75
		1/2	KSH12-04S				60	52					92

^{*} Reference dimensions after R thread installation.

<M5, M6>







Male Connector: KXH (High speed)

<M5, M6>







Effective area (mm²) Nylon Urethane	
	11
4.0	11
	16
4.0	15
5.6	
10.4	20
10.4	26
	28
18.0	34
	42
	68
29.5	76
	94
16.1	88
40.1	105
	m²) Urethane 4.0 4.0 5.6 10.4 18.0 29.5

^{*} Reference dimensions after R thread installation.

<M5, M6>

