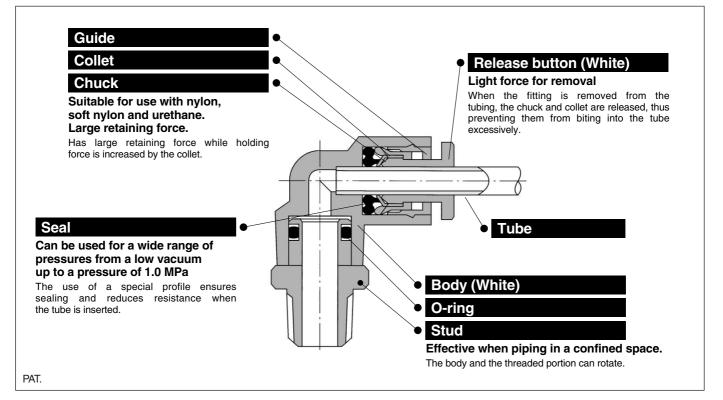
Stainless One-touch Fittings Series KG



Stainless specifications applicable to corrosive environments

Stainless steel 303 adopted for metal elements

Suitable for use in CRT production lines where contact with copper must be avoided, food processing machines where water or salt water splashes and clean room where discoloration of copper material and corrosion must be avoided.



Applicable Tubing

rurethane
2, ø16

Specifications

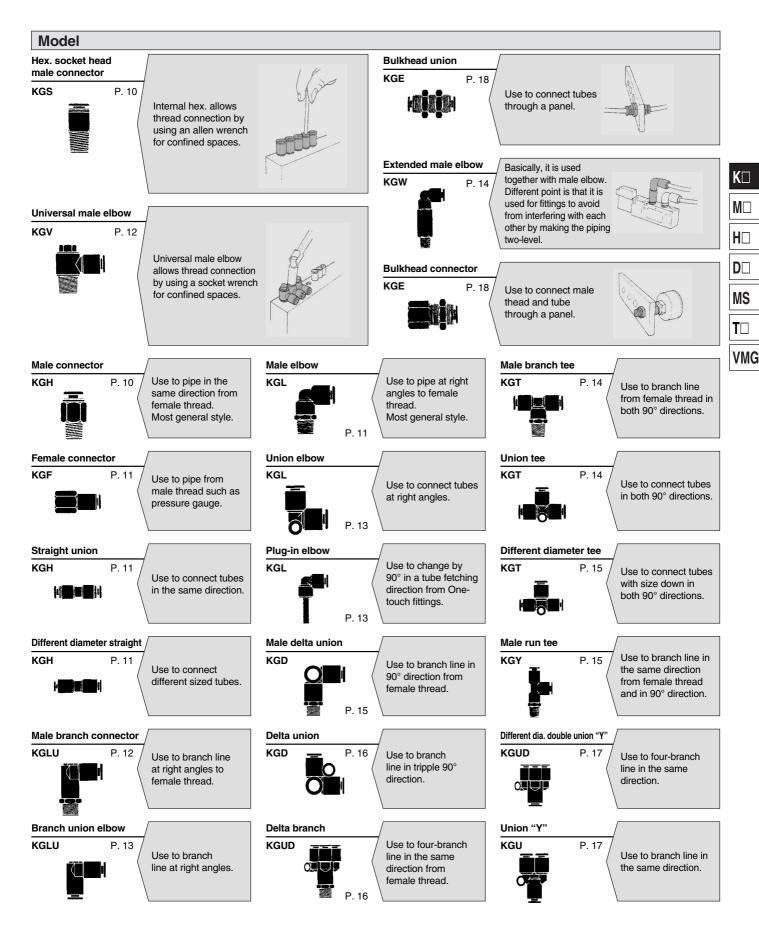
-						
Fluid		Air/Water ⁽¹⁾				
Maximum operating p	ressure	1.0 MPa				
Operating vacuum pre	essure	-100 kPa				
Proof pressure		3.0 MPa				
Ambient and fluid tem	perature	-5 to 60°C (Water: 0 to 40°C) (No freezing)				
Thread	Mounting section	JIS B 0203 (Taper thread for piping)				
Thread	Nut section	JIS B 0211 Class 2 (Metric fine thread)				
Seal (Thread portion)	·	With seal or none (2)				
Note 1) Applicable for ge	eneral industrial water. P	ease consult with SMC if using for other kinds of fluid.				

Also, the surge pressure must be under the maximum operating pressure. Also, the surge pressure must be under a Note 2) Suffix "S" to the part number, if w/ seal is desired.

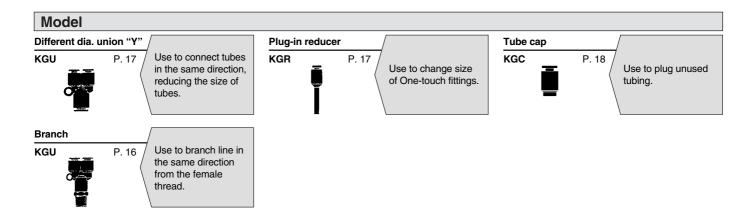
Principal Parts Material

Body	Stainless steel 303, PBT
Stud	Stainless steel 303
Chuck	Stainless steel 304
Guide	Stainless steel 304, Stainless steel 303, POM
Collet, Release button	POM
Seal, O-ring	NBR

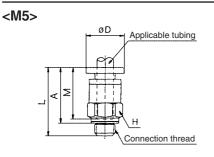
Stainless One-touch Fittings Series KG



Series KG

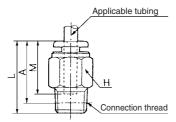


Male Connector: KGH



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	ø D ⁽¹⁾	L	A *	м	Effective (mr Nylon		Weight (g)		
	M5 x 0.8	KGH04-M5	8	8	17	14	13	4	4	2.4		
4	1⁄8	KGH04-01	10	—	22	18	16	5.6	4	9		
	1⁄4	KGH04-02	14	—	19.5	13.5	10	5.0	4	16		
	M5 x 0.8	KGH06-M5	10	10	18.5	15	14	4	4	3.4		
<u> </u>	1⁄8	KGH06-01	12	_	22.5	18.5				16		
6	1/4	KGH06-02	14	—	23	17	17	13.1	10.4	14		
	3⁄8	KGH06-03	17	_	22	15.5				27		
	1⁄8	KGH08-01	14		28	24			18.0	21		
8	1⁄4	KGH08-02	14	_	26.5	20.5	18.5	26.1		19		
	3⁄8	KGH08-03	17	_	22	15.5				26		
	1⁄8	KGH10-01					30	26				19
10	1/4	KGH10-02	17	—	33.5	27.5	21	41.5	29.5	30		
10	3⁄8	KGH10-03			29	22.5	21			30		
	1/2	KGH10-04	22	_	27	19				53		
	1⁄4	KGH12-02	10		34.5	28.5				42		
12	3⁄8	KGH12-03	19	_	20	23.5	22	58.3	46.1	34		
	1/2	KGH12-04	22		30	22				51		
16	3⁄8	KGH16-03	04		39.5	32	04	81	(81)	61		
10	1/2	KGH16-04	24		35.5	26.5	24	113	(96)	47		
			(eference	dimensi	ons afte	r R threa	ad insta	llation.		

<R>



1	∽ ∗ R	eference	dimensi	ons after	R threa	ad	inst	ta
	! Not	e 1) øD:	Max. dia	ameter				
•	Not	e 2) (): \	/alues fo	or nylon.				

Hexagon Socket Head Male Connector: KGS

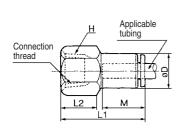
<m5></m5>	Applicable	<r></r>	Applicable tubing	Connection thread	Model	H (width across flats)	øD ^{Note)}	L	A *	м	Effectiv (mr	n²)	Weight (g)		
	tubing	Applicable	O.D. (mm)	R		,	0.5	10	45.5	10	Nylon				
- ø		# Tubing	4	M5 x 0.8	KGS04-M5	2.5	9.5	19	15.5	13	4	4	2.6		
	Connection thread			1⁄8	KGS04-01	3	9.8	23	19	16	4.1	3.6	8		
				M5 x 0.8	KGS06-M5	2.5	11.5	20	16.5	14	4	4	3.2		
Σ				6	1⁄8	KGS06-01	4	11.8 13.8	24	20	17	10.0	9.9	9	
↓ ∖∔≕					1/4	KGS06-02	4			18		10.7	10.0	15	
				1⁄8	KGS08-01	5		28	8 24 1	17.2	2 1	12			
-		Connection		Connection thread	8	1/4	KGS08-02	0	14	25.5	19.5	18.5	23.3	16.2	11
					3⁄8	KGS08-03	6	17	27.5	21		23.3		24	
				1⁄8	KGS10-01	5		30	26		17.2	10.0	18		
/			10	1/4	KGS10-02		17	07.5	21.5				12		
+	(₽))		10	3⁄8	KGS10-03	8		27.5	21	21	39.0	26.6	19		
	Æ			1/2	KGS10-04	1	22	28	20				35		
L	<u>H</u>	<u> </u>	12 $3/8$ KGS12-03 19 29 22 5 22	46.0		23									
				00.0	44.5	18									
				1/2	KGS12-04	0 10	22	28	20]	60.0		30		

* Reference dimensions after R thread installation. Note) øD: Max. diameter



Stainless One-touch Fittings Series KG

Female Connector: KGF



Applicable tubing O.D. (mm)	Connection thread Rc	Model	H (width across flats)	Note) ØD	L1	L2	м	(mi	ve area m²) Urethane	Weight (g)			
0.8. (iiiii)	-		,					туюп	Uleillaile				
4	1⁄8	KGF04-01	14	10	27	11	16	5.6	4	15			
7	1⁄4	KGF04-02	17	10	31	14	10	5.0	-	23			
	1⁄8	KGF06-01	14		27.5	11				15			
6	1/4	KGF06-02	17	12	31	13	17	13.1	10.4	22			
	3⁄8	KGF06-03	19		33.5	15				25			
8	1⁄8	KGF08-01	14		29	11	18.5	26.1	18.0	17			
	1/4	KGF08-02	17	14	32.5	13				24			
	3⁄8	KGF08-03	19		33.5	14				24			
10	1/4	KGF10-02	17	17	34.5	14	21	41.5	29.5	27			
10	3⁄8	KGF10-03	19	17	36.5	15	21	41.5	29.5	30			
	1/4	KGF12-02	19		35	14				36			
12	3⁄8	KGF12-03	19	19	37	14	22	58.3	46.1	31			
	1/2	KGF12-04	24		41	18				52			
	Note) øD: Max. diameter												

Straight Union: KGH

2-applicable tubing	

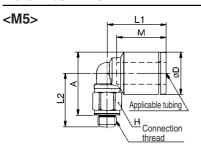
Applicable tubing O.D. (mm)	Model	Note) ØD	L	M Effective area (mm ²) Nylon Urethane		Weight (g)	
					Nylon	Urethane	(3)
4	KGH04-00	10.4	32.5	16	5.6	4	3
6	KGH06-00	12.8	34.5	17	13.1	10.4	4
8	KGH08-00	15.2	38.5	18.5	26.1	18.0	6
10	KGH10-00	18.5	42.5	21	41.5	29.5	11
12	KGH12-00	20.9	44.5	22	58.3	46.1	14
					te) øD:	Max. dia	ameter

Different Diameter Straight: KGH

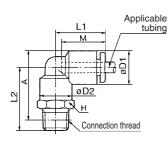
Applicable tubing (a)a	Applicable tubing (b)6)
+ <u>91</u> - M1	

Applicable tubing O.D. (mm) (a) (b)		Model	Note) ØD	L	M1	M2	Effectiv (mi Nylon	n)	Weight	
4	6	KGH04-06	12.8	34.5	16	17	5.6	4	5	
6	8	KGH06-08	15.2	38.5	17	18.5	13.1	10.4	6	
8	10	KGH08-10	18.5	42	18.5	21	26.1	18.0	11	
10 12		KGH10-12	20.9	44.5	21	22	41.5	29.5	14	
Note) øD: Max. diameter										

Male Elbow: KGL







											-	
Applicable tubing	Connection thread	Model	H (width across	øD1	øD2	L1	L2	A *	м	Effective mi	n²	Weight (g)
O.D. (mm)	R		flats)							,	Urethane	
	M5 x 0.8	KGL04-M5	7	9.5	—	16	13.5	15	13	3.5	3.5	2.7
4	1⁄8	KGL04-01	10	10.4	10	18	22	23	16	4.2	4.2	10
	1⁄4	KGL04-02	14	10.4	10	10	26	25	10	4.2	4.2	19
	M5 x 0.8	KGL06-M5	7	11.5	—	16	14.5	17	14	3.5	3.5	3.1
<u>^</u>	1⁄8	KGL06-01	10				23	25.5			9.0	12
6	1⁄4	KGL06-02	14	12.8	10	20	27	27.5	17	11.4		10
	3⁄8	KGL06-03	17				29	29				33
	1⁄8	KGL08-01	12				24.5	28				13
8	1⁄4	KGL08-02	14	15.2	12	23	28.5	30	18.5	21.6		21
	3⁄8	KGL08-03	17				30.5	31.5				35
	1⁄8	KGL10-01					27	32		21.6	14.9	25
10	1⁄4	KGL10-02	17	18.5	17	26.5	30	33	21			26
10	3⁄8	KGL10-03		10.5	17	20.5	32	34.5	21	35.2	25.0	36
	1/2	KGL10-04	22				36	37				63
	1⁄4	KGL12-02	17				31	35.5				28
12	3⁄8	KGL12-03	17	20.9	17	28.5	33	37	22	50.2	39.7	38
	1/2	KGL12-04	22				37	39.5				65
16	3⁄8	KGL16-03	00	00 5	00.0	04	38	44.5	04	71	(71)	101
16 -	1/2	KGL16-04	22	26.5	20.9	0.9 34	41	46	24	100	(84)	105
				-	Defe							

SMC

* Reference dimensions after R thread installation. Note 1) øD1: Max. diameter Note 2) (): Values for nylon.

15-3-11



K M H D MS T

VMG

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