

Stainless Steel 316 Insert Fittings

Applicable Tubing: Metric Size, Connection Thread: M, G^{*1}^{*1} ISO 16030 compliant**KFG2H□-E Series**

RoHS



- IP69K
 - Special FKM compliant with the Food and Drug Administration (FDA)
- \$177.2600**

Applicable Tubing

Tubing material ^{*1, *2}	FEP, PFA, Modified PTFE, 2-layer soft fluoropolymer, Nylon, Soft nylon, Polyurethane, Soft polyurethane, Polyolefin, Soft polyolefin, Antistatic soft nylon, Antistatic polyurethane, Hard polyurethane
Tubing size	Ø 4 x Ø 2.5, Ø 6 x Ø 4, Ø 8 x Ø 6, Ø 10 x Ø 7.5, Ø 12 x Ø 9

^{*1} Considering the product application, FDA-compliant products are recommended.^{*2} For soft polyurethane tubing, hard polyurethane tubing, and antistatic polyurethane tubing, water cannot be used.

Series	Tubing material	Tubing O.D. x I.D. [mm]				
		Ø 4 x Ø 2.5	Ø 6 x Ø 4	Ø 8 x Ø 6	Ø 10 x Ø 7.5	Ø 12 x Ø 9
TH	FEP ^{*1}	●	●	●	●	●
TL	Super PFA ^{*1}	—	●	●	—	—
TLM	PFA ^{*1}	●	●	●	●	●
TD	Modified PTFE ^{*1}	●	●	●	●	●
TQ	Special fluoropolymer	●	●	●	—	●
T	Nylon	●	●	●	●	●
TS	Soft nylon	●	●	●	●	●
TU	Polyurethane	●	●	—	—	—
TU-X214	Polyurethane ^{*1}	●	●	—	—	—
TPH	Polyolefin ^{*1}	●	●	●	●	●
TUS	Soft polyurethane	●	●	—	—	—
TUH	Hard polyurethane (High pressure)	●	●	—	—	—
TPS	Soft polyolefin ^{*1}	●	●	—	—	—
TAS	Antistatic soft nylon	●	●	—	—	—
TAU	Antistatic polyurethane	●	●	—	—	—

^{*1} FDA compliant tubing (Refer to page 4.)

Spare Parts

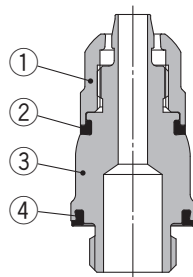
Description	Part no.	Applicable thread	Material
Gasket (G thread side)	KFG2-M5-E	M5	FDA compliant FKM
	KFG2-G01-E	G1/8	
	KFG2-G02-E	G1/4	
	KFG2-G03-E	G3/8	
	KFG2-G04-E	G1/2	

Specifications

Fluid	Air, Water ^{*1} , Steam ^{*3}
Operating pressure range ^{*2}	–100 kPa to 1 MPa ^{*4}
Ambient and fluid temperatures	–5 to 150°C (No freezing) ^{*4}

^{*1} Deionised water is not recommended for use as it may affect the material used in the fittings. In addition, it is known to degrade the water quality.^{*2} Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.^{*3} Please contact SMC for applicable tubing separately.^{*4} Check the operating pressure range and operating temperature range of the tubing.

Construction



Principal Parts Material

No.	Description	Material	Note
1	Union nut	Stainless steel 316	NSF H1 grease
2	Gasket	FDA compliant FKM	
3	Male connector body	Stainless steel 316	
4	Gasket	FDA compliant FKM	

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Applicable Tubing: Metric Size, Connection Thread: M, G

Dimensions**Male Connector: KFG2H□-E**

Applicable tubing size [mm]		Connection thread	Model	Width across flats		L	M	Ø d ₁	Ø d ₂	A	Effective area [mm ²]	Weight [g]
O.D.	I.D.			H ₁	H ₂							
Ø 4	Ø 2.5	M5 x 0.8	KFG2H0425-M5-E	8	7	23.3	5	1.8	8.8	19.8	1.6	7
Ø 6	Ø 4	G1/8	KFG2H0604-G01-E	12	10	29	5.8	3.3	14	23.5	6	17
Ø 8	Ø 6	G1/4	KFG2H0806-G02-E	14	12	33.6	6.6	5.3	18	27.1	17	25
Ø 10	Ø 7.5	G3/8	KFG2H1075-G03-E	17	14	38.1	7.6	6.8	21.8	30.6	30	38
Ø 12	Ø 9	G1/2	KFG2H1209-G04-E	19	17	43.2	8.5	8	26	34.2	45	58

