

Stainless Steel 316

Insert Fittings

Applicable Tubing: Metric Size, Connection Thread: R, Rc

KFG2 Series

RoHS



Applicable Tubing

Tubing material ^{Note)}	FEP, PFA, Modified PTFE, 2-layer soft fluoropolymer, Nylon, Soft nylon, Polyurethane, Soft polyurethane, Polyolefin, Soft polyolefin, Antistatic soft nylon, Antistatic polyurethane, Hard polyurethane, Wear resistant polyurethane
Tubing size	ø4 x ø2.5, ø4 x ø3, ø6 x ø4, ø8 x ø6, ø10 x ø7.5 ø10 x ø8, ø12 x ø9, ø12 x ø10, ø16 x ø13

Note) For soft polyurethane tubing, hard polyurethane tubing, antistatic polyurethane tubing, water cannot be used.

Series	Tubing material	Tubing O.D. x I.D. (mm)							
		ø4 x ø2.5	ø4 x ø3	ø6 x ø4	ø8 x ø6	ø10 x ø7.5	ø10 x ø8	ø12 x ø9	ø12 x ø10
TH	FEP	●	—	●	●	●	●	●	—
TL	Super PFA	—	—	—	—	—	—	—	—
TLM	PFA	●	●	●	●	●	●	●	●
TD	Modified PTFE	●	—	—	—	—	—	—	—
TQ	Special fluoropolymer	●	—	●	—	—	—	—	—
T	Nylon	●	●	—	—	—	—	—	●
TS	Soft nylon	●	—	—	—	—	—	—	—
TU	Polyurethane	●	—	—	—	—	—	—	—
TPH	Polyolefin	●	—	—	—	—	—	—	—
TUS	Soft polyurethane	●	—	—	—	—	—	—	—
TUH	Hard polyurethane (High pressure)	●	—	—	—	—	—	—	—
TPS	Soft polyolefin	●	—	—	—	—	—	—	—
TAS	Antistatic soft nylon	●	—	—	—	—	—	—	—
TAU	Antistatic polyurethane	●	—	—	—	—	—	—	—
TUZ	Wear resistant polyurethane	●	—	—	—	—	—	—	—

Spare Parts

Description	Tubing O.D.	Part no.	Material
Bulkhead nut	ø4	KFG204-P01	Stainless steel 316
	ø6	KFG206-P01	
	ø8	KFG208-P01	
	ø10	KFG210-P01	
	ø12	KFG212-P01	
	ø16	KFG216-P01	

Specifications

Fluid	Air, N ₂ , Water, Steam, Turbine oil class 1 (ISO VG32) ^{Note 2)} ^{Note 3)}
Operating pressure range ^{Note 1)}	–100 kPa to 1 MPa ^{Note 4)}
Proof pressure	3.0 MPa
Ambient and fluid temperature	–65 to 260°C (No freezing) ^{Note 4)} [Swivel elbow and with sealant types: –5 to 150°C]
Lubricant	Grease-free specification
Seal on the threads	Without sealant (With sealant type compatible) ^{Note 5)}

Note 1) Avoid using in a vacuum holding application such as a leak tester, since there is leakage.

Note 2) Consult with SMC regarding applicable tubing separately.

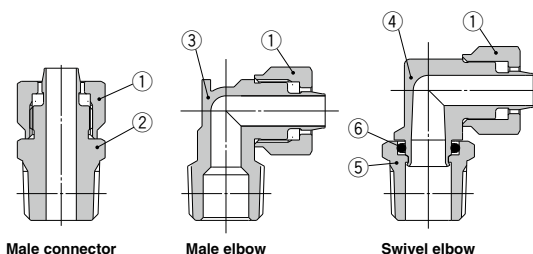
Note 3) Using special FKM that is resistant even when steam is used.

Note 4) Check the operating pressure range and operating temperature range of the tube.

Note 5) With sealant: Suffix "S" to the end of part number.

Note 6) Union nut is shipped together.

Construction



Principal Parts Material

No.	Description	Material	Note
1	Union nut	Stainless steel 316	Fluoro coated
2	Male connector body	Stainless steel 316	
3	Male elbow body	Stainless steel 316	
4	Swivel elbow body	Stainless steel 316	
5	Stud	Stainless steel 316	Fluoro coated
6	O-ring	Special FKM	Fluoro coated

Stainless Steel 316

Insert Fittings

Applicable Tubing: Inch Size, Connection Thread: NPT

KFG2 Series

RoHS



Applicable Tubing

Tubing material ^{Note)}	FEP, PFA, Modified PTFE, Nylon, Soft nylon, Polyurethane, Soft polyurethane, Polyolefin, Soft polyolefin, Antistatic soft nylon, Antistatic polyurethane, Hard polyurethane, Wear resistant polyurethane
Tubing size	ø1/8" x ø0.086", ø5/32" x 0.098", ø1/4" x ø5/32" ø5/16" x 0.236", ø3/8" x ø1/4", ø1/2" x ø3/8"

Note) For soft polyurethane tubing, hard polyurethane tubing, antistatic polyurethane tubing, water cannot be used.

Series	Tubing material	Tubing O.D. x I.D. (inch)					
		ø1/8" x ø0.086" (ø3.18 x ø2.18)	ø5/32" x ø0.098" (ø4 x ø2.5)	ø1/4" x ø5/32" (ø6.35 x ø3.95)	ø5/16" x ø0.236" (ø8 x ø6)	ø3/8" x ø1/4" (ø9.53 x ø6.35)	ø1/2" x ø3/8" (ø12.7 x ø9.53)
TH/TH	FEP	●	●	●	●	●	●
TL/TIL	Super PFA	●	—	●	●	●	●
TLM/TILM	PFA	●	●	●	●	●	●
TD/TID	Modified PTFE	●	●	●	●	●	●
T/TIA	Nylon	●	●	—	●	—	●
TS/TISA	Soft nylon	●	●	—	●	—	●
TU/TIUB	Polyurethane	—	●	—	—	●	—
TPH	Polyolefin	—	●	—	●	—	—
TUS	Soft polyurethane	—	●	—	—	—	—
TUH	Hard polyurethane (High pressure)	—	●	—	—	—	—
TPS	Soft polyolefin	—	●	—	—	—	—
TAS	Antistatic soft nylon	—	●	—	—	—	—
TAU	Antistatic polyurethane	—	●	—	—	—	—
TUZ	Wear resistant polyurethane	—	●	—	●	—	—

Spare Parts

Description	Tubing O.D.	Part no.	Material
Bulkhead nut	ø1/8"	KFG201-P01	Stainless steel 316
	ø5/32"	KFG203-P01	
	ø1/4"	KFG207-P01	
	ø5/16"	KFG209-P01	
	ø3/8"	KFG211-P01	
	ø1/2"	KFG213-P01	

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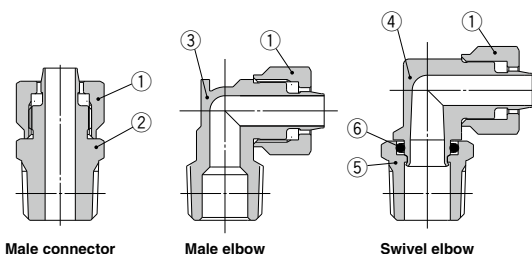
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