

Insert Fittings Series *KF*

RoHS



Resin sleeve



Brass sleeve

Specifications

Sleeve material	Resin	Brass
Fluid	Air, Water ^{Note 2)}	Air, Steam ^{Note 2)}
Ambient and fluid temperature	–5 to 60°C (No freezing) Water: 0 to 60°C (No freezing)	–5 to 150°C (No freezing)
Operating pressure range ^{Note 1)}	–101.3 kPa to 1 MPa	
Proof pressure	7.0 MPa (at 60°C)	
Lubricant	Grease-free	
Seal on the threads	None or with sealant	

Note 1) Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Note 2) Swivel type is not compatible with water and steam.

Applicable Tubing

Series	Tubing O.D.	Tubing O.D. x I.D. (mm)							
		ø4 x ø2.5	ø6 x ø4	ø8 x ø5	ø8 x ø6	ø10 x ø6.5	ø10 x ø7.5	ø12 x ø8	ø12 x ø9
T	Nylon	●	●	—	●	—	●	—	●
TS	Soft nylon	●	●	—	●	—	●	—	●
TU	Polyurethane	●	●	●	—	●	—	●	—
TPH	Polyolefin	●	●	—	●	—	●	—	●
TPS	Soft polyolefin	●	●	●	—	●	—	●	—
TH	FEP	●	●	—	●	—	●	—	●
TL	Super PFA	—	●	—	●	—	—	—	—
TD	Modified PTFE	●	●	—	●	—	●	—	●

How to Order

KF H 06 — **01 S** —

Type

H	Male connector
L	Straight union
T	Male elbow
F	Female union
E	Bulkhead connector
Y	Bulkhead union
V	Male run tee
W	Swivel elbow

Applicable tubing O.D.

04	ø4
06	ø6
08	ø8
10	ø10
12	ø12

Sealant (Male thread)

Nil	None
S	With sealant

Bore size
Applicable tubing O.D.

01	R1/8
02	R1/4, Rc1/4
03	R3/8, Rc3/8
04	R1/2, Rc1/2
00	Same tubing size

Made to Order
Refer to page 127 for details.

Applicable tubing / Sleeve material

Applicable tubing material	Sleeve material	Tubing size (O.D. x I.D.)							
		ø4 x ø2.5	ø6 x ø4	ø8 x ø5	ø8 x ø6	ø10 x ø6.5	ø10 x ø7.5	ø12 x ø8	ø12 x ø9
Nylon	Resin	Nil	—	—	N	—	N	—	N
	Brass	B	—	—	B	—	B	—	B
Soft nylon	Resin	Nil	—	—	N	—	N	—	N
	Brass	B	—	—	B	—	B	—	B
Polyurethane	Resin	Nil	U	—	U	—	U	—	—
	Brass	B	—	—	B	—	B	—	B
Polyolefin	Resin	Nil	—	—	N	—	N	—	N
	Brass	B	—	—	B	—	B	—	B
Soft polyolefin	Resin	Nil	U	—	U	—	U	—	—
	Brass	B	—	—	B	—	B	—	B
FEP	Resin	Nil	—	—	N	—	N	—	N
	Brass	B	—	—	B	—	B	—	B
Super PFA	Resin	—	Nil	—	N	—	—	—	—
	Brass	—	B	—	B	—	—	—	—
Modified PTFE	Resin	Nil	—	—	N	—	N	—	N
	Brass	B	—	—	B	—	B	—	B

Series KF

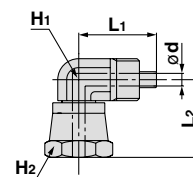
Dimensions

Elbow Connector: KFY

(mm)



Applicable tubing size (mm)		Model	Width across flats		L ₁	L ₂	ød	Mass (g)
O.D.	I.D.		H ₁	H ₂				
ø4	ø2.5	KFY-04	10	14	18.5	18.5	1.5	21.1
ø6	ø4	KFY-06	10	14	18.5	18.5	3	21.6
ø8	ø5	KFY-08U	12	17	20	19.5	4	32.8
	ø6	KFY-08N					5	32.9
ø10	ø6.5	KFY-10U	14	19	21	21.5	5.5	41.9
	ø7.5	KFY-10N					6.5	41.7
ø12	ø8	KFY-12U	17	22	22	22.5	7	61.8
	ø9	KFY-12N					8	61.6

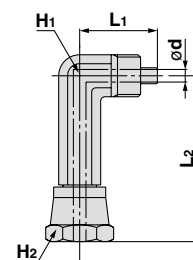


Long Elbow Connector: KFW

(mm)



Applicable tubing size (mm)		Model	Width across flats		L ₁	L ₂	ød	Mass (g)
O.D.	I.D.		H ₁	H ₂				
ø4	ø2.5	KFW-04	10	14	18.5	38.5	1.5	31.7
ø6	ø4	KFW-06	10	14	18.5	39.5	3	33.0
ø8	ø5	KFW-08U	12	17	20	40.5	4	48.0
	ø6	KFW-08N					5	46.8
ø10	ø6.5	KFW-10U	14	19	21	42.5	5.5	62.4
	ø7.5	KFW-10N					6.5	63.4
ø12	ø8	KFW-12U	17	22	22	45.5	7	94.0
	ø9	KFW-12N					8	94.5



Sleeve: KFS

(mm)

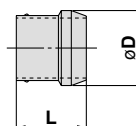


Resin sleeve



Brass sleeve

Applicable tubing size (mm)	Model	L	øD	Mass (g)
ø4	KFS-04	12	6.5	0.1
	KFSB-04	8.7		0.6
ø6	KFS-06	12	8.5	0.1
	KFSB-06	8.8		0.9
ø8	KFS-08	12	10.5	0.2
	KFSB-08	8.8		1.2
ø10	KFS-10	13.5	13	0.3
	KFSB-10	9.6		1.7
ø12	KFS-12	14	15	0.4
	KFSB-12	10.1		2.1



Union Nut: KFN

(mm)



Applicable tubing size (mm)	Model	Width across flats H	L	Mass (g)
ø4	KFN-04	10	8	3.0
ø6	KFN-06	12	8	3.8
ø8	KFN-08	14	8	4.7
ø10	KFN-10	17	9	7.0
ø12	KFN-12	19	10	9.5

