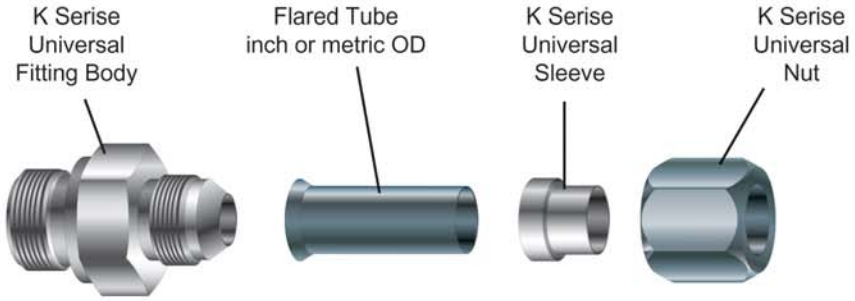
Design

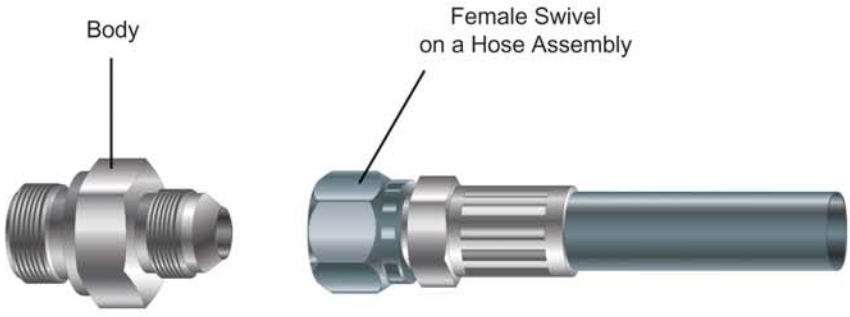
DK-LOK K Series JIC Tube Fitting consists of body, sleeve and nut and meets the requirements of SAE J514 and ISO 8434-2 standards.

DK-LOK K Series JIC Tube Fittings are capable of connecting to inch and metric tube with no changing the Sleeve and Nut.



Example: KU-4T-SA fitting capable of connecting to 1/4″ OD or 6mm OD Stainless steel tubing.

The fitting body without sleeve and nut is widely used as a hose adapter for connection to a female swivel on a hose assembly.



Technical Information

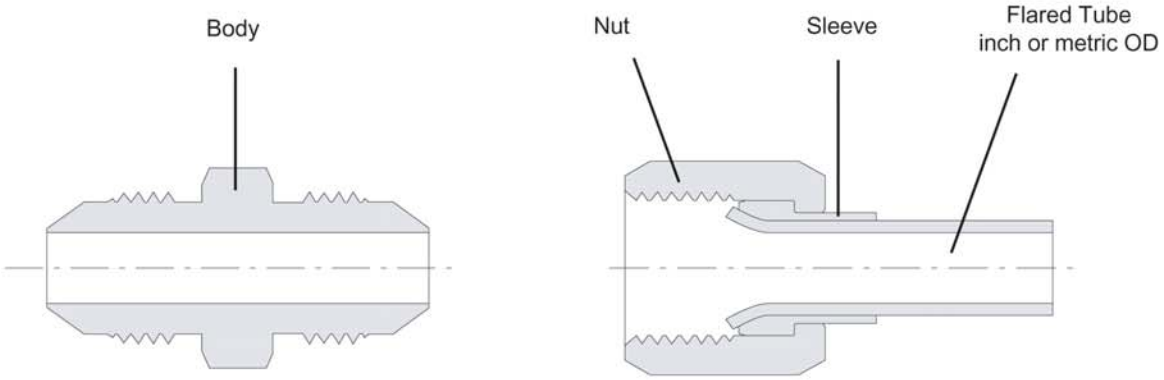


Table 1. Material Standards

Fitting Materials	Body		Nut and Sleeve	Flared Tubing (Not supplied)
	Bar Stock	Forging		
Stainless Steel 316	ASTM A276/A479 Type 316/316L	ASTM A182 F316/F316L	ASTM A276/A479 Type 316/316L Nut supplied with inside Molybdenum coated.	ASTM A269 ASTM A213
Carbon Steel	ASTM A108 JIS G4051 S20C - S48C	ASTM A105 JIS G4051 S20C - S48C	ASTM A108 JIS G4051 S20C - S48C Nut supplied with inside Molybdenum coated.	ASTM A179 ASTM A161
Brass	ASTM B453 UNS C35300 JIS H3250 Alloy C3604	ASTM B283 UNS 37700 JIS G4051 Alloy C3771	ASTM B453 UNS C35300 JIS H3250 Alloy C3604 Nut supplied with inside lubricated.	Copper Tubing ASTM B88 ASTM B75

Table 2. Working Pressure Rating

For fitting materials of Stainless steel and Carbon steel.

SAE Nominal Size	Tube OD		Union and Bulkheads		Fitting with Female Swival		Fitting with Pipe Thread	
	inch	mm	psi	bar	psi	bar	psi	bar
2	1/8	3	5000	345	5000	345	5000	345
3	3/16	4	5000	345	5000	345	5000	345
4	1/4	6	5000	345	4500	310	5000	345
5	5/16	8	5000	345	4000	275	5000	345
6	3/8	10	5000	345	4000	275	4000	275
8	1/2	12	4500	310	4000	275	3000	210
10	5/8	16	3500	240	3000	210	3000	210
12	3/4	18, 20	3500	240	3000	210	2500	170
14	7/8	22	3000	210	2500	170	2500	170
16	1	25	3000	210	2500	170	2000	140
20	1 1/4	32	2500	170	2000	140	1150	80
24	1 1/2	38	2000	140	1500	105	1000	70
32	2	50	1500	105	1125	80	1000	70

Table 3. Suggested Tubing Wall Thickness

SAE Nominal Size	Inch Tube OD inch	Wall Thickness, inch		Metric Tube OD mm	Wall Thickness, mm	
		Min.	Max.		Min.	Max.
2	1/8	0.010	0.035	-	-	-
3	3/16	0.010	0.035	-	-	-
4	1/4	0.020	0.065	6	0.5	2.0
5	5/16	0.020	0.065	8	0.5	2.0
6	3/8	0.020	0.065	10	0.5	2.0
8	1/2	0.028	0.083	12	1.0	2.0
10	5/8	0.035	0.095	16	1.0	2.5
12	3/4	0.035	0.109	18, 20	1.0	3.0
14	7/8	0.035	0.109	22	1.0	3.0
16	1	0.035	0.120	25	1.0	3.0
20	1 1/4	0.049	0.120	32	1.5	3.0
24	1 1/2	0.049	0.120	38	1.5	3.0
32	2	0.058	0.134	50	1.5	3.5

Table 4. Fitting s Surface Finish

Stainless Steel	Carbon Steel	Brass
Passivation	Yellow Zinc plated.	Acid Cleaned. On request, chrome plated brass fitting can be supplied.

Ordering Information

To order a fitting without nut and sleeve, select an applicable part number and fitting material designator.
Example: KU-2T-S

To order a fitting with nut and sleeve factory assembled, select an applicable part number, fitting material designator and suffix **A** to the ordering number.
Example: KU-2T-S**A**

Table 5. Fitting Material Designator

Stainless Steel 316	Carbon Steel	Brass
S	C	B

Table 6. Tube OD Designator

OD inch	1/16	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	2
Designator	1	2	3	4	5	6	8	10	12	14	16	20	24	36
OD mm	4mm	6mm	8mm	10mm	12mm	16mm	18mm	20mm	22mm	25mm	25mm	32mm	38mm	50mm
Designator	4M	6M	8M	10M	12M	16M	18M	20M	22M	25M	25M	32M	38M	50M

Table 7. Thread Symbol Designator

Thread	Symbol	Standards
Taper Thread	N	ASME/ANSI B1.20.1
	R	ISO 7-1, BS 21, JIS B 0203
Parallel Thread	G	ISO 228-1, BS 2779, JIS B0202
	U	ASME B1.1

Table 8. Taper Pipe Thread Designator

Nominal Size	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
N	01N	02N	03N	04N	06N	08N	10N	12N	16N
R	01R	02R	03R	04R	06R	08R	10R	12R	16R

Table 9. ASME B1.1 Unified Thread Designator

Size	5/16	3/8	7/16	1/2	9/16	3/4	7/8	1 1/16	1 3/16	1 5/16	1 5/8	1 7/8	2 1/2
Size Designator	02	03	04	05	06	08	10	12	14	16	20	24	32