
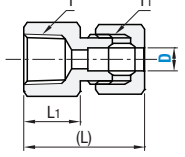


# Copper Pipe Fittings / Needle Valves for Copper Pipe

Straight Tapped / Straight Threaded / Ring Nut / Lock Nut

**Copper Pipe Fittings – Straight Tapped** **DKFR**


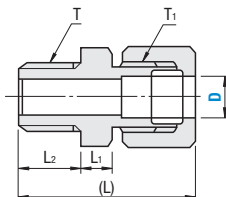



RoHS10

Ring included (part number: DKRG) **Material: Brass**

Type	Part Number	Applicable Pipe O.D. D	T R (PT)	(L)	L <sub>1</sub>	T <sub>1</sub> G (PF)	Square	
							Main Body	Nut
DKFR	3	1/8	26	12	1/8	14	12	
	4	1/8	26	12	1/8	14	12	
	5	1/8	26	12	1/8	14	12	
	6	1/4	33	15	1/4	17	16	
	8	1/4	33	15	1/4	17	16	
	10	3/8	39	19	3/8	22	19	
	12	1/2	46	22	1/2	27	24	

**Copper Pipe Fittings – Straight Threaded** **DKPG**


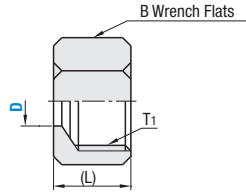



RoHS10

Ring included (part number: DKRG) **Material: Brass**

Type	Part Number	Applicable Pipe O.D. D	T G (PF)	(L)	L <sub>1</sub>	L <sub>2</sub>	T <sub>1</sub> G (PF)	Square	
								Main Body	Nut
DKPG	3	1/8	25.5	5	6.5	1/8	12	12	
	4	1/8	25.5	5	6.5	1/8	12	12	
	5	1/8	25.5	5	6.5	1/8	12	12	
	6	1/4	32.5	6	8.5	1/4	16	16	
	8	1/4	32.5	6	8.5	1/4	16	16	
	10	3/8	38.0	8	10.0	3/8	19	19	
	12	1/2	46.0	10	12.0	1/2	24	24	

**Copper Pipe Fittings – Ring Nut** **DKRGN**


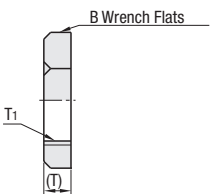



RoHS10

**Material: Brass**

Type	Part Number	Applicable Pipe O.D. D	T <sub>1</sub> G (PF)	(L)	B Wrench Flats
DKRGN	6	1/4	13	16	
	8	1/4	14	16	
	10	3/8	16	19	
	12	1/2	19.5	24	
	15	5/8	21	27	

**Copper Pipe Fittings – Lock Nut** **DKRKN**

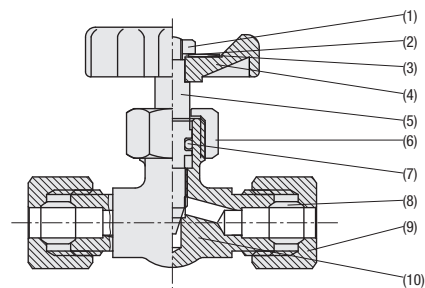
RoHS10

**Material: Brass**


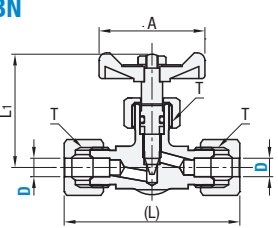
Type	Part Number	No.	T <sub>1</sub> G (PF)	(T)	B Wrench Flats
DKRKN	1	1/8	4	12	
	2	1/4	5	16	
	3	3/8	6	19	
	4	1/2	7	24	

## DKVBN Parts & Materials

No.	Name of Parts	Material
(1)	Wheel Tightening Nut	Free-Cutting Brass
(2)	Washers	SWRH82A Spring Steel Wire (JIS)
(3)	Rotation Indicator	A1070P Aluminum Alloy (JIS)
(4)	Handle	Aluminum Die Casting
(5)	Stem	Free-Cutting Brass
(6)	Gland Nut	Free-Cutting Brass
(7)	O-Ring	NBR Nitrile Rubber
(8)	Ring	Free-Cutting Brass
(9)	Ring Nut	Free-Cutting Brass
(10)	Main Body	Forging Brass



**Needle Valves for Copper Pipe** **DKVBN**

RoHS10

Type	Part Number	Applicable Pipe O.D. D	T G (PF)	A	(L)	L <sub>1</sub>	Square	
							Main Body	Nut
DKVBN	6	1/4	35	60	42	12	16	
	8	1/4	35	60	49	14	16	
	10	3/8	45	70	58	17	19	
	12	1/2	55	84	78	23	24	

## Fitting Specifications


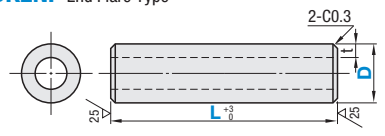
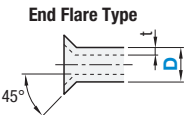
Applicable Fluids	Air / Water / Industrial Oil
Normal Operating Pressure	3.5 MPa
Max. Operating Pressure	7.0 MPa
Operating Temperature Range	-20~100°C (No Freezing)

Part Number Example: **DKFR3 DKVBN8**

# Annealed Copper Pipes / Fittings for Annealed Copper Pipes

Straight / Tapped Connector (G Thread Type)

**Annealed Copper Pipes** **DKEN** **DKENF** End Flare Type

RoHS10

DKENF End Flare Type is flared only at one end. **Material: Brass**

D Dimension Tolerance


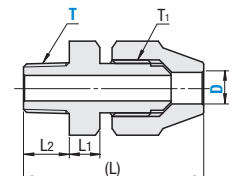
D	Tolerance
3-6	±0.1
8 / 10	±0.2

Type	Part Number	D	L Selection	t	DKEN Available Types				DKENF Available Types				
					L100	L200	L300	L500	L100	L200	L300	L500	
DKEN DKENF	3	100	200	300	•	•	•	•	•	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	•	•	•
	5	•	•	•	•	•	•	•	•	•	•	•	•
	6	100	200	300	500	•	•	•	•	•	•	•	•
	8	•	•	•	•	•	•	•	•	•	•	•	•
	10	•	•	•	•	•	•	•	•	•	•	•	•

DKEN is shipped unrolled and may arrive a little distorted.  
When DKEN and Annealed Copper Pipe Fittings are combined, expand the pipe end to 45° using the flare ring tool.

Part Number Example: **DKEN8 - 300**

**Fittings for Annealed Copper Pipes – Straight** **DKNT**


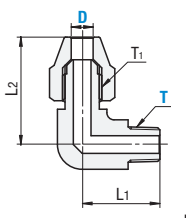



RoHS10

**Material: Brass**

Type	Part Number	D	R (PT)	T Selection	R (PT)	(L)	L <sub>1</sub>	L <sub>2</sub>	T <sub>1</sub> (UNF)	Square							
										Unify Fine Thread	Main Body	Nut					
DKNT	6	1/8	34	6	9	7/16-20UNF	16	17	16	17	17						
												1	1/8	25	32	16	17
												2	1/4	28	34	19	17
DKNT	8	1/4	35	6	9	1/2-20UNF	16	19	16	19	19						
												1	1/8	22	33	16	19
												2	1/4	25	33	16	19
DKNT	10	3/8	43	8	12	5/8-18UNF	19	22	19	22	22						
												1	1/4	27	38	19	22
												2	1/4	27	38	19	22
												3	3/8	28	38	19	22
	4	1/2	49	10	16	22	22	24	22								

**Fittings for Annealed Copper Pipes – Straight** **DKNTL**

RoHS10

**Material: Brass**

Type	Part Number	D	R (PT)	T Selection	R (PT)	L <sub>1</sub>	Approx. L <sub>2</sub>	T <sub>1</sub> (UNF)	Square							
									Unify Fine Thread	Main Body	Nut					
DKNTL	6	1/8	22	32	7/16-20UNF	16	17	16	17	17						
											1	1/8	25	32	16	17
											2	1/4	28	34	19	17
DKNTL	8	1/4	22	33	1/2-20UNF	16	19	16	19	19						
											1	1/8	22	33	16	19
											2	1/4	25	33	16	19
DKNTL	10	3/8	28	38	5/8-18UNF	19	22	19	22	22						
											1	1/4	27	38	19	22
											2	1/4	27	38	19	22
											3	3/8	28	38	19	22
	4	1/2	34	41	24	22										

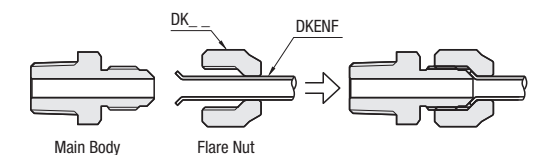
## Specifications of Joints

Applicable Fluids	Air / Water / Industrial Oil
Normal Operating Pressure	3.5 MPa
Max. Operating Pressure	7.0 MPa
Operating Temperature Range	-20~150°C (No Freezing)

Application Example


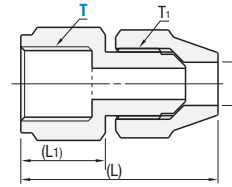
## Feature

Suitable for plumbing that requires air tightness such as refrigerant gas pipe.



Align the coupling body to the copper pipe, end to end, hand tighten the flare nut, then tighten it securely using a wrench and an adjustable spanner.

**Fittings for Annealed Copper Pipes – Tapped Connector (G Thread Type)** **DKFGF**

RoHS10

**Material: Brass**

Type	Part Number	D	T G (PF)	(L)	(L <sub>1</sub> )	T <sub>1</sub> (UNF)	Square	
							Unify Fine Thread	Main Body
DKFGF	6	1/4	34	15	7/16-20UNF	17	17	
	8	1/4	35	15	1/2-20UNF	17	19	
	10	3/8	42	19	5/8-18UNF	22	22	

Part Number Example: **DKNT8 DKFGF6**