

# Copper Pipes / Copper Fittings

Straight / Elbow

**Copper Pipes**

Type	Material	Standards
DKE	C12200 Copper Alloy	JIS H : 3300

RoHS 10

Part Number	Type	D	L	t	Available Types					
					L10-100	L101-200	L201-400	L401-600	L601-800	L801-1000
3	DKE	3	10-250	1	•	•	•	•	•	•
4		10-500	•		•	•	•	•	•	
5		10-900	•		•	•	•	•	•	
6		•	•		•	•	•	•	•	
8		•	•		•	•	•	•	•	
10		•	•		•	•	•	•	•	
12		1.5	10-1000	•	•	•	•	•	•	
14			•	•	•	•	•	•	•	
15			•	•	•	•	•	•	•	
16			•	•	•	•	•	•	•	
18			2	•	•	•	•	•	•	
18				•	•	•	•	•	•	

**Tolerance for D Dimension / L Dimension**

or More	or Less	D	L
3	6	±0.1	±0.1
7	30	±0.2	±0.2
31	120	±0.3	±0.3
121	400	±0.5	±0.5
401	1000	±0.8	±0.8

**C Dimension**

or More	or Less	C
D3	D12 (12.7)	0.3
D14	D18	0.5

Part Number Example: **DKE10 - 300**

**Copper Pipe Fittings - Straight**

RoHS 10

Ring included (part number: DKRG) Material: Brass

**Copper Pipe Fittings - Elbow**

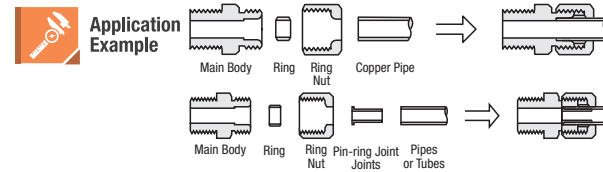
RoHS 10

Ring included (part number: DKRG) Material: Brass

Part Number	D: Pipe Outer Dia.	T R (PT) Selection	T R (PT)	Approx. L	L1	L2	T1 G (PF)	Opposite Side	
								Body	Nuts
3	3	1	1/8	28	5	9	1/8	12	12
		2	1/4	32	6	12	1/8	14	12
4	4	1	1/8	28	5	9	1/8	12	12
		2	1/4	32	6	12	1/8	14	12
5	5	1	1/8	28	5	9	1/8	12	12
		2	1/4	32	6	12	1/8	14	12
6	6	1	1/8	33	6	9	1/4	14	16
		2	1/4	36	6	12	1/4	16	16
		3	3/8	39	8	13	1/4	19	16
8	8	1	1/8	33	6	9	1/4	14	16
		2	1/4	36	6	12	1/4	16	16
		3	3/8	39	8	13	1/4	19	16
10	10	1	1/8	36	6	12	1/4	16	16
		2	1/4	40	8	12	3/8	19	19
		3	3/8	41	8	13	3/8	19	19
12	12	1	1/8	41	8	13	3/8	19	19
		2	1/4	46	10	16	3/8	22	19
		3	3/8	47	10	13	1/2	24	24
14	14	1	1/8	46	10	16	1/2	24	24
		2	1/4	50	10	16	1/2	24	24
		3	3/8	48	10	13	1/2	24	24
15	15	1	1/8	51	10	16	1/2	24	24
		2	1/4	54	10	13	5/8	24	27
		3	3/8	50	10	13	5/8	24	27
16	16	1	1/8	54	11	16	5/8	27	27
		2	1/4	54	10	13	5/8	24	27

Part Number	D: Pipe Outer Dia.	T R (PT) Selection	T R (PT)	L1	Approx. L2	T1 G (PF)	Opposite Side	
							Body	Nuts
3	3	1	1/8	20	25	1/8	12	12
		2	1/4	25	27	1/8	16	12
4	4	1	1/8	20	25	1/8	12	12
		2	1/4	25	27	1/8	16	12
5	5	1	1/8	20	25	1/8	12	12
		2	1/4	25	27	1/8	16	12
6	6	1	1/8	22	31	1/4	16	16
		2	1/4	25	31	1/4	16	16
		3	3/8	28	33	1/4	19	16
8	8	1	1/8	22	31	1/4	16	16
		2	1/4	25	31	1/4	16	16
		3	3/8	28	33	1/4	19	16
10	10	1	1/8	27	35	3/8	19	19
		2	1/4	27	35	3/8	19	19
		3	3/8	28	35	3/8	19	19
12	12	1	1/8	34	38	3/8	24	19
		2	1/4	30	42	1/2	24	24
		3	3/8	31	42	1/2	24	24
14	14	1	1/8	34	43	1/2	24	24
		2	1/4	31	43	1/2	24	24
		3	3/8	31	43	1/2	24	24
15	15	1	1/8	34	45	5/8	24	27
		2	1/4	34	45	5/8	24	27
		3	3/8	31	45	5/8	24	27
16	16	1	1/8	34	45	5/8	24	27
		2	1/4	34	45	5/8	24	27

Part Number Example: **DKPT8 - 2**



- Pin-ring joint (P.3365) is available when thin metal pipes and hard tubes are used with copper pipe fittings.
- Set a ring nut and a ring in a joint pipe, insert the pipe into the main body all the way until the pipe end touches the pipe stopper and tighten the nut by hand. Afterwards use a wrench or a spanner for further tightening.
- As annealed copper pipes are soft, use fittings for annealing copper pipes (P.3367), instead of this Ring Type coupling.

**Fitting Specifications**

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

# Copper Pipe Fittings

Unions / Union Elbow / Union Tee / Threaded Tee / Replacement Ring / Pin-Ring Joint

**Copper Pipe Fittings - Unions**

RoHS 10

Ring included (part number: DKRG) Material: Brass

Part Number	Type	Applicable Pipe O.D. D	(L)	L1	(L2)	T1 G (PF)	Square	
							Main Body	Nut
DKUS	3	33	5	14.0	1/8	12	12	
	4	33	5	14.0	1/8	12	12	
	5	33	5	14.0	1/8	12	12	
	6	41	6	17.5	1/4	16	16	
	8	41	6	17.5	1/4	16	16	
	10	48	8	20.0	3/8	19	19	
	12	58	10	24.0	1/2	24	24	
	14	60	10	25.0	1/2	24	24	
	15	65	11	27.0	5/8	27	27	
	16	65	11	27.0	5/8	27	27	

**Copper Pipe Fittings - Union Elbow**

RoHS 10

Ring included (part number: DKRG) Material: Brass

Part Number	Type	Applicable Pipe O.D. D	(L)	T1 G (PF)	Square	
					Main Body	Nut
DKUE	3	25	1/8	12	12	
	4	25	1/8	12	12	
	5	25	1/8	12	12	
	6	31	1/4	16	16	
	8	31	1/4	16	16	
	10	35	3/8	19	19	
	12	42	1/2	24	24	
	14	43	1/2	24	24	
	15	45	5/8	24	27	
	16	45	5/8	24	27	

**Copper Pipe Fittings - Union Tee**

RoHS 10

Ring included (part number: DKRG) Material: Brass

Part Number	Type	Applicable Pipe O.D. D	(L)	(L1)	T1 G (PF)	Square	
						Main Body	Nut
DKUT	3	50	25	1/8	12	12	
	4	50	25	1/8	12	12	
	5	50	25	1/8	12	12	
	6	62	31	1/4	16	16	
	8	62	31	1/4	16	16	
	12	84	42	1/2	24	24	

**Copper Pipe Fittings - Threaded Tee**

RoHS 10

Ring included (part number: DKRG) Material: Brass

Part Number	Type	Applicable Pipe O.D. D	T R (PT) Selection	T R (PT)	(L)	(L1)	L2	T1 G (PF)	Square	
									Main Body	Nut
DKUPT	4	4	1	1/8	50	25	20	1/8	12	12
			2	1/4	54	27	25	1/8	16	12
	5	5	1	1/8	50	25	20	1/8	12	12
			2	1/4	54	27	25	1/8	16	12
	6	6	1	1/8	62	31	22	1/4	16	16
			2	1/4	62	31	25	1/4	16	16
	8	8	1	1/8	62	31	22	1/4	16	16
			2	1/4	62	31	25	1/4	16	16
	10	10	1	1/8	66	33	28	1/4	19	16
			2	1/4	70	35	27	3/8	19	19
	12	12	1	1/8	62	31	22	1/4	16	16
			2	1/4	62	31	25	1/4	16	16

The PT thread size marked on Copper Hollow Fittings body might be different from actual size.

**Copper Pipe Fittings - Replacement Ring**

RoHS 10

Material: Brass

Part Number	Type	D: Hollow Outer Dia.	D1	L
4	6	5		
5	7	5.5		
6	8.5	7		
8	10.5	7.5		
10	12.5	8.5		
12	15	10		
14	17	11		
15	18	11.5		
16	19	12		

Part Number Example: **DKUPT8 - 2**

**Copper Pipe Fittings - Pin-Ring Joint**

RoHS 10

Material: Brass

Part Number	Type	d1	d2	D	L	L1	L2
6	4.5	8.0	16.0	15.0	1.0		
8	6.0	10.0	19.0	17.5	1.5		
10	8.0	12.0	22.0	20.0	2.0		

**Fitting Specifications**

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