

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		•	•	•	•	•	•	•		
14		1.5	10-1000	•	•	•	•	•	•	
15			•	•	•	•	•	•	•	
16			•	•	•	•	•	•	•	
18			•	•	•	•	•	•	•	
			2		•	•	•	•	•	•
				•	•	•	•	•	•	•

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

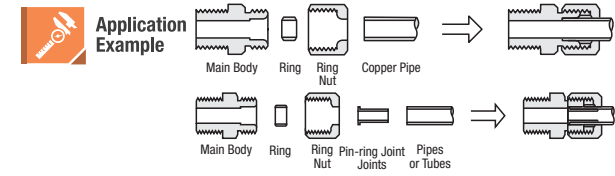
RoHS 10

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	46	10	16	3/8	22	19
		2	1/4	46	10	12	1/2	22	24
		3	3/8	47	10	13	1/2	22	24
14	14	1	1/8	50	10	16	1/2	24	24
		2	1/4	48	10	13	1/2	22	24
		3	3/8	48	10	13	1/2	22	24
15	15	1	1/8	51	10	16	1/2	24	24
		2	1/4	50	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	11	16	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
16	16	1	1/8	31	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
		3	5	5
		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
		4	3.0	6.0	15.0	14.0	1.0
		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)