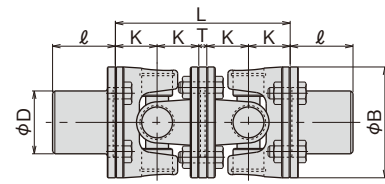
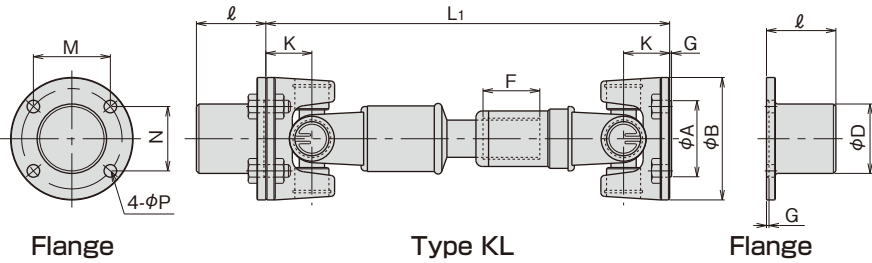


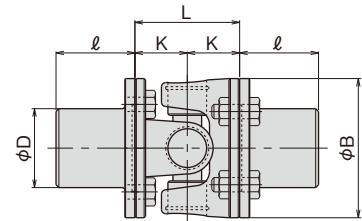
# Bearing Type **KL, KF, KFD**

## Light Torque and High Revolution Use

- Order a fitting flange separately.
- A shaft hole of a fitting flange is not machined.
- Designate dimension L1 for type KL.



Type KFD



Type KF

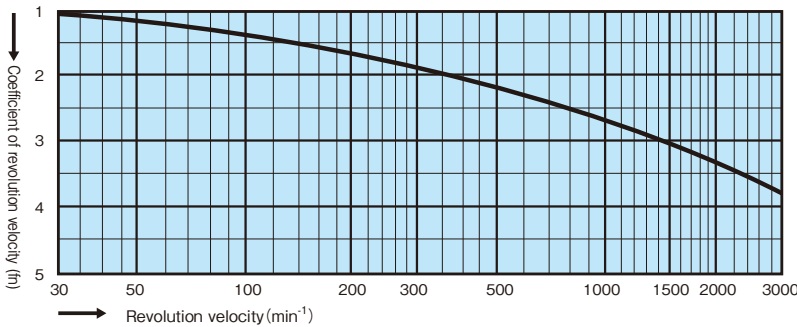
## ■ Type KL, KF, KFD Dimension Table

Type Symbol	Type KL			Type KF	Type KFD	Common for each type												
	MIN L1 <sup>+%</sup>	MAX L1 <sup>+%</sup>	F Slide distance	L	L	Revolution diameter phi B	K	phi A	G	M	N	4-phi P <sup>+0.5</sup> / <sub>+0.3</sub>	PCD	phi D	l	T	Max. joint angle	Max. transmission torque capacity N·m
Each type-7	270	1000	35	72	149	65	36	35	-3	37	37	6	52.3	40	40	5	15	69
Each type-20	390	2000	50	76	158	72	38	34	3	50	25	8	55.9	36	40	6	15	196
Each type-30	330	2000	50	80	167	89	40	57	2	54	45	8	70.3	47	50	7	15	294
Each type-45	320	2000	45	73	153	97	36.5	60.2	2	61	51	10	79.5	55	55	7	15	441
Each type-70	420	2000	60	92	192	134	46	85	3	87	73	12	113.6	78	80	8	15	686
Each type-110	520	2000	60	120	248	143	60	62	4	85	80	12	116.7	78	80	8	15	1079
Each type-150	590	2000	120	144	298	171	72	90	5	118	75	14	139.8	98	100	10	15	1471
Each type-300	670	2000	160	156	326	196	78	100	5	131	92	16	160.0	118	120	14	15	2942

Please contact us about any other dimensions. ※Rotational balancing can be done to the length of L1=1500.

## Method to choose type in KL

### ■ Graph of coefficient of revolution velocity (fn)



### ■ Table of coefficient of prime mover

Type of prime mover	Coefficient fp
Motor	1.2
Gasoline engine	1.2~2.0
Diesel engine	1.5~2.5

(Calculate transmission torque capacity using following formulas.)

$$T = 60000 \times \frac{H(KW)}{2\pi N}$$

T = Transmission torque N·m  
 H = Prime mover capacity KW  
 N = Revolution min<sup>-1</sup>

To = Joint capacity can be calculated by multiplying transmission torque by each coefficient.

$$To = T \times fn \times fp \times fa \times fh$$

To = Joint capacity

fn = Coefficient of revolution velocity  
 fp = Coefficient of prime mover  
 fa = Coefficient of joint angle  
 fh = Coefficient of bearing life span

### ■ Table of coefficient of joint angle fa

Angle	Coefficient
2°	1.0
5°	1.1
10°	1.2
12°	1.4
13°	1.45
14°	1.5
15°	1.6

### ■ Table of coefficient of bearing life span

