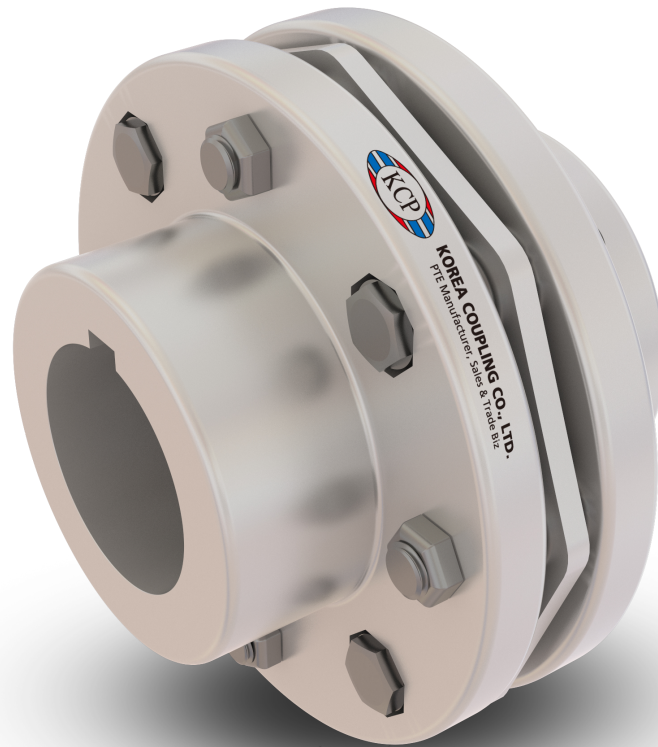


# KCP

## Disc Flexible Couplings

[www.koreacoupling.co.kr](http://www.koreacoupling.co.kr)



**KOREA COUPLING CO., LTD.**  
PTE Manufacturer, Sales & Trade Biz

# Coupling Selection

## How to Select

### Standard Selection

The Standard Selection may be used for engine driven, motor, or turbine applications. The following information is required:

- Application or equipment type (motor to pump, reducer to conveyor, etc.)
- Shaft diameters (mm)
- Gaps between shafts (mm)
- Speed (RPM)
- Horsepower or torque (Nm)

**1. Rating :** Determine system torque. Torque is calculated as follows :

$$\text{I . Torque (Nm)} = \frac{\text{kW} \times 9,550}{\text{RPM}} \quad \text{II . Torque (Kg.m)} = \frac{\text{kW} \times 974}{\text{RPM}}$$

**2. Service Factor :** Determine appropriate service factor from page. 5-6

**3. Minimum Coupling Rating :** Determine the required minimum coupling rating as follows :

$$\text{Minimum Coupling Rating} = \text{Service Factor} \times \text{Torque (Nm)}$$

**4. Type :** Select the appropriate coupling type

**5. Size :** Trace the Torque column to find the value that is equal or greater than value from Step 3.

**6. Check :** Check speed (RPM), bore, gap and dimensions.

### Formula Selection

The Standard Selection should be used for most coupling selections.

The Formula Selection procedure below should be used for:

- High Peak Loads.
- Brake Applications (Brake disc or brake wheel is an integral part of coupling)

Using the Formula Selection and providing system peak torque and frequency, duty cycle, and brake torque rating will allow for a more refined selection.

**1. High Peak Loads :** Use formula A or B for applications which involve motors with higher than normal torque characteristics. Applications should also be those with intermittent operations, including shock loading, inertia effects due to starting and stopping, system-induced repetitive high peak torques. System Peak Torque is the maximum torque that can exist in the system. Select a coupling with a Torque Rating equal or greater than the Selection Torque calculated below:

A. Non-Reversing High Peak Torque : Selection torque (Nm) = System Peak Torque or

$$\text{System Torque (Nm)} = \frac{\text{System peak kW} \times 9549}{\text{RPM}}$$

B. Reversing High Peak Torque : Selection Torque (Nm) = 2 x System Peak Torque or

$$\text{System Torque (Nm)} = \frac{2 \times \text{Peak kW} \times 9549}{\text{RPM}}$$

**2. Brake Applications :** If the torque rating of the brake exceeds the motor torque, use brake rating as blow :

$$\text{Selection Torque (Nm)} = \text{Brake Torque Rating} \times \text{Service Factor}$$

## Service Factors

### Service Factors for Operation of Drive System

Application	Service Factor
<b>AERATOR</b>	2.0
<b>AGITATORS</b>	
Vertical and Horizontal Scenv, Propeller, Paddle	1.0
<b>BARGE HAUL PULLER</b>	1.5
<b>BLOWERS</b>	
Centrifugal	1.0
Lobe or Vane	1.25
<b>CAR DUMPERS</b>	2.5
<b>CAR PULLERS</b>	1.5
<b>CLARIFIER or CLASSIFIER</b>	1.0
<b>COMPRESSORS</b>	
Centrifugal	1.0
Rotary, Lobe or Vane	1.25
Rotary, Screw	1.0
With Flywheel and Gear between Compressor and Prime Mover	
1 Cylinder, single acting	3.0
1 Cylinder, double acting	3.0
2 Cylinders, single acting	3.0
2 Cylinders, double acting	3.0
3 Cylinders, single acting	3.0
3 Cylinders, double acting	2.0
4 or more cylinders, single acting	1.75
4 or more cylinders, double acting	1.75
<b>CONVEYORS</b>	
Apron, Assembly, Belt, Chain, Flight, Screw	1.0
Bucket	1.25
Live Roll, Shaker and Reciprocating	3.0
<b>CRANES and HOIST</b>	
Main Hoist	1.75
Skip Hoist	1.75
Slope	1.5
Bridge, Travel or Trolley	1.75
<b>DYNAMOMETER</b>	1.0
<b>ELEVATORS</b>	
Bucket, Centrifugal Discharge	1.25
Gravity Discharge	1.25
<b>EXCITER, GENERATOR</b>	1.0
<b>EXTRUDER, PLASTIC</b>	1.5
<b>FANS</b>	
Centrifugal	1.0
Cooling Tower	2.0
Forced Draft-Across the Line start	1.5
Forced Draft Motor driven thru fluid or electric slip clutch	1.0
Gas Recirculating	1.5
Induced Draft with damper control or blade cleaner	1.25
Induced Draft without controls	2.0
<b>FEEDERS</b>	
Apron, Belt, Disc, Screw	1.0
Reciprocating	2.5
<b>GENERATORS</b>	
Even Load	1.0
Hoist or Railway Service	1.5
Welder Load	2.0
<b>GENERATORS</b>	
Even Load	1.0

Application	Service Factor
Hoist or Railway Service	1.5
Welder Load	2.0
<b>HAMMERMILL</b>	1.75
<b>LAUNDRY WASHER or TUMBLER</b>	2.0
<b>LINE SHAFTS</b>	
Any Processing Machinery	1.5
<b>MACHINE TOOLS</b>	
Auxiliary and Traverse Drive	1.0
Bending Roll, Notching Press, Punch Press, Planer, Plate Reversing	1.75
Main Drive	1.5
<b>METAL FORMING MACHINES</b>	
Continous Caster	1.75
Draw Bench Carriage and Main Drive	2.0
Extruder	2.0
Farming Machine and Forming Mills	2.0
Slitters	1.0
Wire Drawing or Flattening	1.75
Wire Winder	1.5
Coilers and Uncoilers	1.5
<b>MIXERS</b>	
Concrete	1.75
Muller	1.5
<b>PRESS, PRINTING</b>	1.5
<b>PUG MILL</b>	1.75
<b>PULVERIZERS</b>	
Hammermil and Hog	1.75
Roller	1.5
<b>PUMPS</b>	
Boiler Feed	1.5
Centrifugal-Constant Speed	1.0
Frequent Speed Changes under Load	1.25
Descaling with accumulators	1.25
Gear, Rotary, or Vane	1.25
Reciprocating, Plunger Piston	
1 Cylinder, single or double acting	3.0
2 Cylinders, single acting	2.0
2 Cylinders, double acting	1.75
3 or more cylinders	1.5
Screw Pump, Progressing Cavity	1.25
Vacuum Pump	1.25
<b>SCREENS</b>	
Air Washing	1.0
Grizzly	2.0
Rotary Coal or Sand	1.5
Vibrating	2.5
Water	1.0
<b>STEERING GEAR</b>	1.0
<b>STOKER</b>	1.0
<b>TIRE SHREDDER</b>	1.5
<b>TUMBLING BARREL</b>	1.75
<b>WINCH, MANEUVERING</b>	
Dredge, Marine	1.5
<b>WINDLASS</b>	1.5
<b>WOODWORKING MACHINERY</b>	1.0

## Service Factors and Reference

### Service Factors for Operation of Drive System

Industry	Service Factor
<b>AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD and MILLS</b>	
Direct or on L.S. shaft of Reducer, with final drive Machined Spur Gears	2.0
Single Helical or Herringbone Gears	1.75
Crushers, Ore or Stone	2.5
Dryer, Rotary	1.75
Grizzly	2.0
Hammermill or Hog	1.75
Tumbling Mill or Barrel	1.75
<b>BREWING and DISTILLING</b>	
Bottle and Can Filling Machines	1.0
Brew Kettle	1.0
Cookers, Continuous Duty	1.25
Lauter Tub	1.5
Mash Tub	1.25
Scale Hopper, Frequent Peaks	1.75
<b>CLAY WORKING INDUSTRY</b>	
Brick Press, Briquette Machine, Clay Working Machine, Pug Mill	1.75
<b>DREDGES</b>	
Cable Reel	1.75
Conveyors	1.25
Cutter head, Jig Drive	2.0
Maneuvering Winch	1.5
Pumps (Uniform load)	1.5
Screen Drive, Stacker	1.75
Utility Winch	1.5
<b>FOOD INDUSTRY</b>	
Beet Slicer	1.75
Botting, Can Filling Machine	1.0
Cereal Cooker	1.25
Dough Mixer, Meat Grinder	1.75
<b>LUMBER</b>	
Band Resaw	1.5
Circular Resaw, Cut-off	1.75
Edger, Head Rig, Hog	2.0
Log Haul	2.0
Planer	1.75
Rolls, Non-Reversing	1.25
Rolls, Reversing	2.0
Sawdust Conveyor	1.25
Slab Conveyour	1.75
Sorting Table	1.5
Trimmer	1.75
<b>METAL ROLLING MILLS</b>	
Coilers (Up or Down) Cold Mills only	1.5
Coilers (Up or Down) Hot Mills only	2.0
Coke Plants	
Pusher Ram Drive	2.5
Door Opener	2.0
Pusher or Larry Car Traction Drive	3.0
Continuous Caster	1.75
Colling Beds	1.5
Drawbench	2.0
Feed Rolls-Blooming Mills	3.0
Furnace Pushers	2.0
Hot and Cold Saws	2.0
Ingot Cars	2.0
Manipulators	3.0
Mill Tables	
Roughing Breakdown Mills	3.0
Hot Bed or Transfer, non-reversing	1.5
Runout, reversing	3.0
Runout, non-reversing, non-plugging	2.0
Reel Drives	1.75
Screwdown	2.0
Seamless Tube Mills	
Piercer	3.0
Thrust Block	2.0
Tube Conveyor Rolls	2.0
Reeler	2.0
Kick Out	2.0
Sideguards	3.0

Industry	Service Factor
Slitters, Steel Mill only	1.75
Lift	1.0
Travel	2.0
Straighteners	2.0
Unscramblers (Billet Bundle Busters)	2.0
Wire Drawing Machinery	1.75
<b>OIL INDUSTRY</b>	
Chiller	1.25
Oilwell Pumping (not over 150% peak torque)	2.0
Paraffin Filter Press	1.5
Rotary Kiln	2.0
<b>PAPER MILLS</b>	
Barker Auxiliary, Hydraulic	2.0
Barker, Mechanical	2.0
Barking Drum	
L.S. shaft of reducer with final drive-Helical or Herringbone Gear	2.0
Machined Spur Gear	2.5
Cast Tooth Spur Gear	3.0
Beater & Pulper	1.75
Bleachers, Coaters	1.0
Calender & Super Calender	1.75
Chipper	2.5
Converting Machine	1.25
Couch	1.75
Cutter, Felt Whipper	2.0
Dryer	1.75
Cylinder	1.75
Felt Stretcher	1.25
Fourdrinier	1.75
Jordan	2.0
Log Haul	2.0
Line Shaft	1.5
Press	1.75
Pulp Grinder	1.75
Reel, Rewinder, Winder	1.5
Stock Chest, Washer, Thickener	1.5
Stock Pumps, Centrifugal	
Constant Speed	1.0
Frequent Speed Changes Under load	1.25
Suction Roll	1.75
Vacuum Pumps	1.25
<b>RUBBER INDUSTRY</b>	
Calender	2.0
Cracker, Plasticator	2.5
Extruder	1.75
Intensive or Banbury Mixer	2.5
Mixing Mill, Refiner or Sheeter	
One or two in line	2.5
Three or four in line	2.0
Five or more in line	1.75
Tire Building Machine	2.5
Tire & Tube Press Opener (Peak Torque)	1.0
Tuber, Strainer, Pelletizer	1.75
Warming Mill	
One or two Mills in line	2.0
Three or more Mills in line	1.75
Washer	2.5
<b>SEWAGE DISPOSAL EQUIPMENT</b>	
Bar Screen, Chemical feeders, Collectors, Dewatering Screen, Grit Collector	1.0
<b>SUGAR INDUSTRY</b>	
Cane Carrier & Leveler	1.75
Cane Knife & Crusher	2.0
Mill Stands, Turbine Driver with all Helical or Herringbone, or Spur Gears with any Prime Mover	1.75
<b>TEXTILE INDUSTRY</b>	
Batcher	1.25
Calender, Card Machine	1.5
Cloth Finishing Machine	1.5
Dry Can, Loom	1.5
Dyeing Machinery	1.25
Mangle, Napper, Soaper	1.25
Spinner, Tenter Frame, Winder	1.5

## Service Factors







### Standard Selection

Service Factors for engine drives are required for applications where good flywheel regulation prevents torque fluctuations greater than  $\pm 20\%$ . For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

Number of Cylinders	4 or 5					6 or more				
Service Factor	1.5	1.75	2	2.25	2.5	1.5	1.75	2	2.25	2.5
Engine Service Factor	2.5	2.75	3	3.25	3.5	2.5	2.75	3	3.25	3.5

To use Engine Drive Service Factors, first determine application Service Factor from page 5-6. When Service Factor is greater than 2.0, or where 1, 2 or 3 cylinder engines are involved, refer complete application details to Korea Coupling for engineering review.

Service Factors are a guide, based on experience, of the ratio between coupling catalogue rating and system characteristics. The system characteristics are best measured with a torque meter.

Torque Demands Driven Machine	Typical applications for Driven Equipment	Typical Service Factor
	Constant torque such as Centrifugal Pumps, Blowers and Compressors.	1.0
	Continuous duty with some torque variations including Plastic Extruders, Forced Draft Fans.	1.5
	Light shock loads from Metal Extruders, Cooling Towers, Cane Knife, Log Haul.	2.0
	Moderate shock loading as expected from a Car Dumper, Stone Crusher, Vibrating Screen.	2.5
	Heavy shock load with some negative torques from Roughing Mills, Reciprocating Pumps, Compressors, Reversing Runout Talbes.	3.0
	Applications like Reciprocating Compressors with frequent torque reversals, which do not necessarily cause reverse rotations.	Refer to KCP

# Disc Flexible Couplings



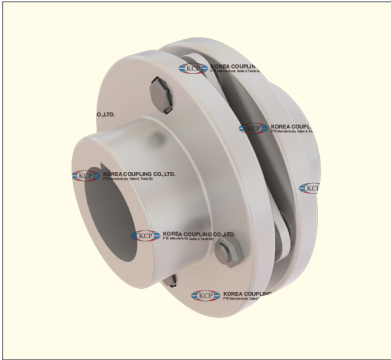
KCP Disc Flexible Couplings are designed to obtain the best capacity to weight ratio. They can reliably be used for mechanical power transmission.

Disc Couplings are used in heavy duty, slow to medium speed applications where high starting torque, torque reversals, continuous alternating torques, and/or shock loads are present. Examples include centrifugal pumps, compressors, ventilators, generators, turbines, electric motors, paper machines, machine tools, cooling towers, and printing machines.

The simple form of the Disc Coupling enables quick installation. The center member, generally an open lug type, minimizes the space required for installation while providing sufficient clearance for assembly. The central member provides excellent dynamic balance, which improves the life of the couplings. Disc Couplings are virtually free from periodic maintenance and do not require lubrication. All components are made of SM45C.

The central member is self-centering and does not require limiting devices or axial float devices for the shaft. The units, including blades and fasteners, are supplied as a single set, which reduces the number of loose parts and makes installation and replacement simple.

## Disc Flexible Coupling Types



**KF3 Type**



**KF4 Type (Spacer)**



**KS3 Type**



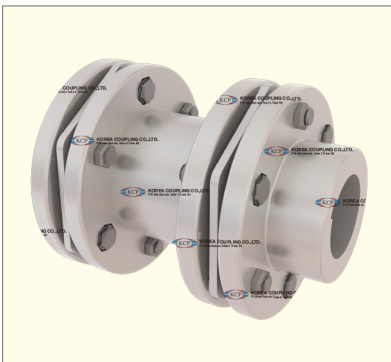
**KS4 Type (Spacer)**



**KE3 Type**



**KE4 Type (Spacer)**



**KSC & KEC Type (Spacer)**



**KSP & KEP Type (Spacer)**



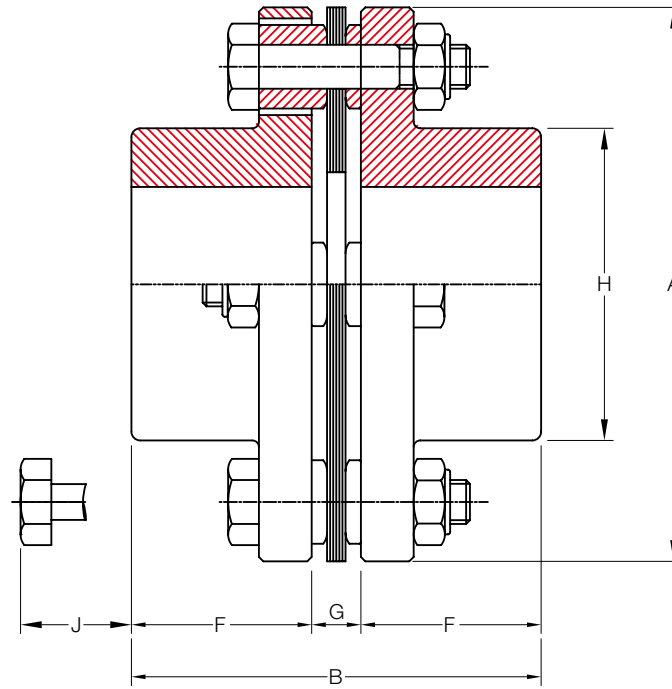
**K52 Type (Spacer)**



**K71 Type (Spacer)**

## KF3 Type

Single Disc Flex with Four Bolts



Angular Misalignment = 1.0°  
4 Bolt Holes

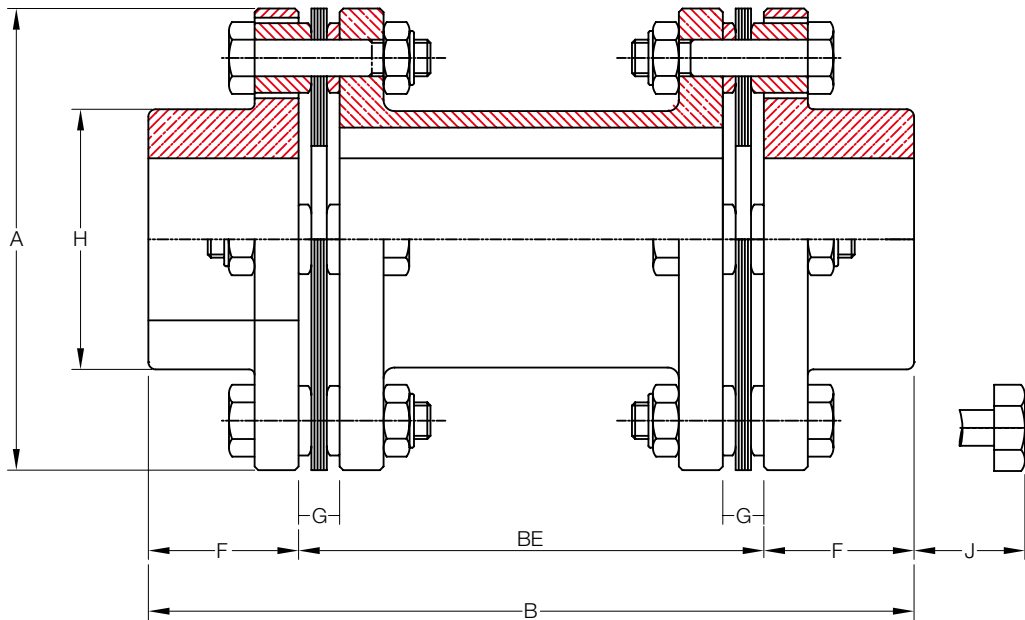
Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Bolt Torque (Kg.m)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)					
							A	B	F	G	H	J
05	33	47,000	23	0.6	0.9	0.0008	67	55.8	25	5.8	33	16
10	90	39,000	32	1.1	0.9	0.0024	81	57.1	25	7.1	46	16
15	176	34,000	35	1.7	2.2	0.0048	93	66.4	29	8.4	51	24
20	245	30,000	42	2.5	2.2	0.0080	104	79.0	34	11.0	61	30
25	421	25,000	50	4.3	4.2	0.0224	126	93.2	41	11.2	71	27
30	774	22,000	58	6.9	7.3	0.0440	143	108.5	48	12.5	84	28
35	1,274	19,000	74	11.3	7.3	0.1080	168	130.0	57	16.0	106	26
40	2,058	16,000	83	16.7	15.9	0.2080	194	145.0	64	17.0	118	30
45	3,332	15,000	95	22.7	15.9	0.3520	214	174.8	76	22.8	137	34
50	4,900	13,000	109	35.4	22.1	0.7200	246	202.0	89	24.0	157	26
55	6,370	11,000	118	52.0	55.3	1.2800	276	230.0	102	26.0	169	42

\* Coupling Weight is without Bore Machining



## KF4 Type

### Double Disc Flex with Four Bolts Spacer Type



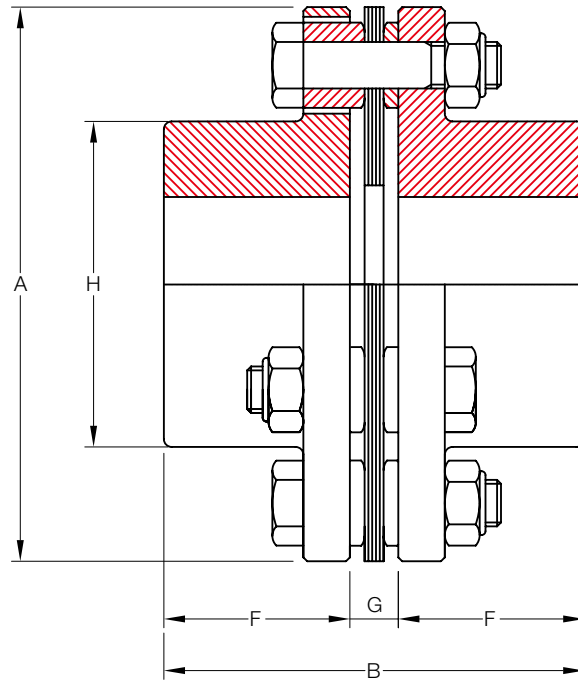
Angular Misalignment = 1.0°  
4 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Bolt Torque (Kg.m)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)						
							A	B	F	G	H	J	BE
05	33	47,000	23	1.2	0.9	0.0018	67	138.9	25	5.8	33	16	88.9
10	90	39,000	32	1.9	0.9	0.0044	81	138.9	25	7.1	46	16	88.9
15	176	34,000	35	2.9	2.2	0.0084	93	159.6	29	8.4	51	24	101.6
20	245	30,000	42	4.1	2.2	0.0148	104	195.0	34	11.0	61	30	127.0
25	421	25,000	50	7.1	4.2	0.0396	126	209.0	41	11.2	71	27	127.0
30	774	22,000	58	10.8	7.3	0.0800	143	223.0	48	12.5	84	28	127.0
35	1,274	19,000	74	16.3	7.3	0.1680	168	241.0	57	16.0	106	26	127.0
40	2,058	16,000	83	24.7	15.9	0.3400	194	267.7	64	17.0	118	30	139.7
45	3,332	15,000	95	32.5	15.9	0.5600	214	304.4	76	22.8	137	34	152.4
50	4,900	13,000	109	50	22.1	1.1200	246	355.8	89	24.0	157	26	177.8
55	6,370	11,000	118	75	55.3	2.0400	276	381.8	102	26.0	169	42	177.8

\* Coupling Weight is without Bore Machining

## KS3 Type

### Single Disc Flex with Six Bolts

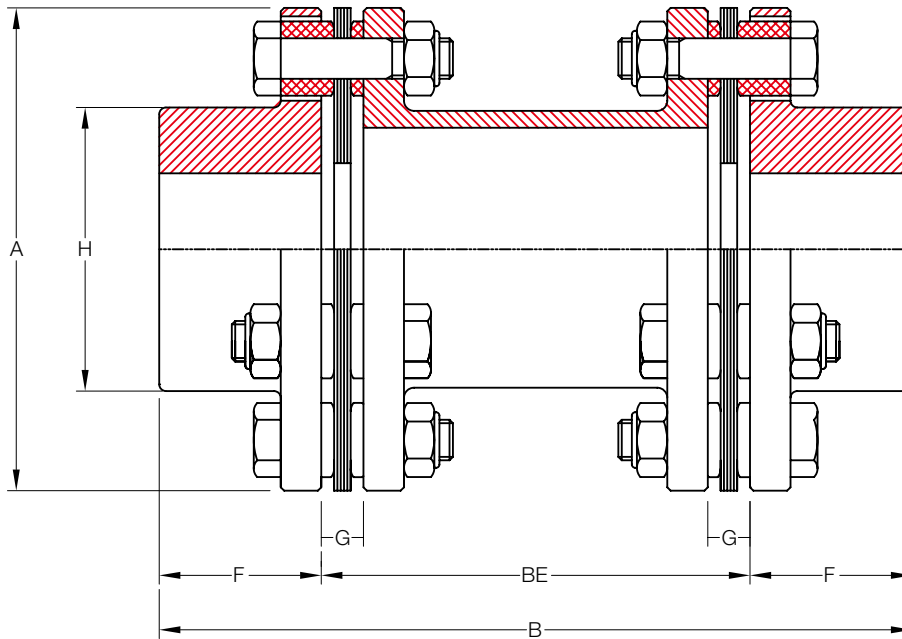


Angular Misalignment = 0.7°  
6 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Shaft Line Displacement (mm)	Bolt Torque (Kg.m)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)				
							A	B	F	G	H
00	568	26,000	51	3.0	2.2	0.04	119	168	54	10.3	74
01	921	23,000	55	3.4	4.2	0.08	137	198	63	11.0	81
02	1,705	19,000	67	3.6	7.3	0.16	161	238	74	12.0	97
03	3,342	17,000	72	4.2	15.9	0.28	180	269	80	14.0	104
04	4,900	15,000	85	4.5	22.1	0.60	212	308	95	17.0	124
05	6,076	11,600	125	3.9	22.1	2.20	276	377	112	17.5	180
10	8,232	11,600	125	3.9	22.1	2.20	276	377	112	19.0	180
15	10,682	10,300	140	4.2	45.0	3.60	308	440	134	19.0	200
20	17,836	9,200	158	4.8	58.0	6.80	346	497	153	22.5	228
25	26,362	8,500	165	5.2	110.0	10.80	375	553	165	28.0	240
30	33,418	7,800	178	5.4	150.0	16.40	410	610	178	31.0	258
35	39,886	7,200	187	5.6	170.0	24.00	445	646	188	31.0	272
40	46,256	6,800	205	6.3	170.0	30.80	470	686	206	34.0	297
45	59,780	6,200	231	6.7	170.0	48.00	511	749	231	35.5	334
50	74,676	5,700	254	7.3	310.0	72.80	556	800	254	37.0	364
55	92,512	5,400	263	7.8	360.0	100.60	587	839	264	37.5	382

## KS4 Type

### Double Disc Flex with Six Bolts Spacer Type



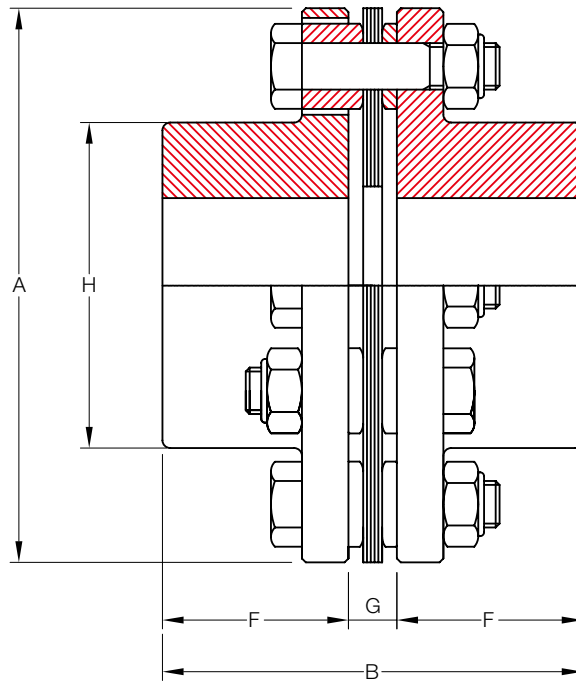
Angular Misalignment = 0.7°  
6 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Shaft Line Displacement (mm)	Bolt Torque (Kg.m)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)					
								A	B	F	G	H	BE
00	568	26,000	51	6.0	3.0	2.2	0.03	119	168	54	10.3	74	60
01	921	23,000	55	9.1	3.4	4.2	0.06	137	198	63	11.0	81	72
02	1,705	19,000	67	16.9	3.6	7.3	0.14	161	238	74	12.0	97	90
03	3,342	17,000	72	21.6	4.2	15.9	0.26	180	269	80	14.0	104	109
04	4,900	15,000	85	35.1	4.5	22.1	0.59	212	308	95	17.0	124	118
05	6,076	11,600	125	73.3	3.9	22.1	1.80	276	377	112	17.5	180	153
10	8,232	11,600	125	74.3	3.9	22.1	1.90	276	377	112	19.0	180	153
15	10,682	10,300	140	107.8	4.2	45.0	3.70	308	440	134	19.0	200	172
20	17,836	9,200	158	156.1	4.8	58.0	6.70	346	497	153	22.5	228	191
25	26,362	8,500	165	211.8	5.2	110.0	10.60	375	553	165	28.0	240	223
30	33,418	7,800	178	274.5	5.4	150.0	16.50	410	610	178	31.0	258	254
35	39,886	7,200	187	333.3	5.6	170.0	23.90	445	646	188	31.0	272	270
40	46,256	6,800	205	399.2	6.3	170.0	30.70	470	686	206	34.0	297	274
45	59,780	6,200	231	525.3	6.7	170.0	48.00	511	749	231	35.5	334	287
50	74,676	5,700	254	676.3	7.3	310.0	72.90	556	800	254	37.0	364	292
55	92,512	5,400	263	803.4	7.8	360.0	100.60	587	839	264	37.5	382	311

\* Coupling Weight is without Bore Machining

## KE3 Type

### Single Disc Flex with Eight Bolts



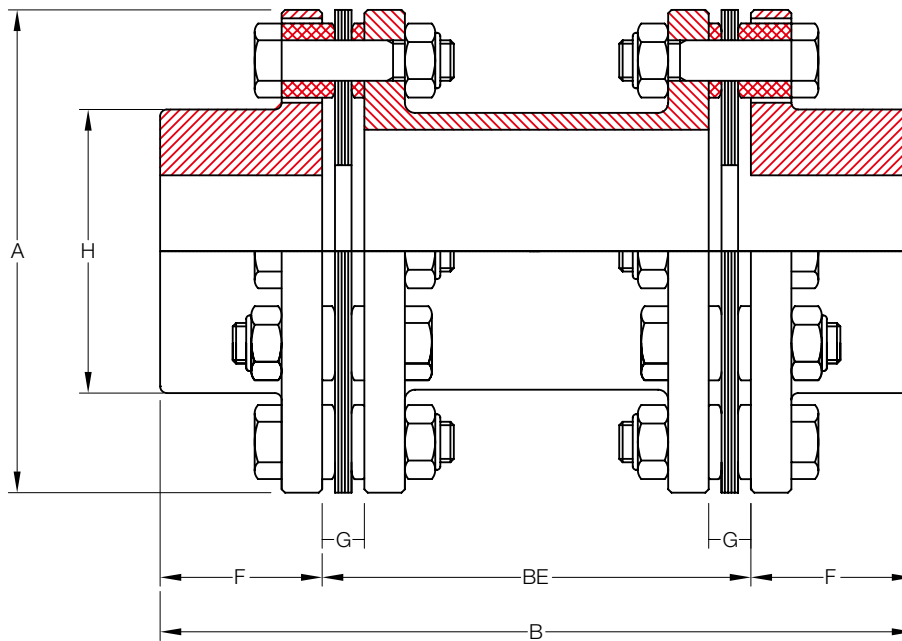
Angular Misalignment = 0.5°  
8 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Shaft Line Displacement (mm)	Bolt Torque (Kg.m)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)				
							A	B	F	G	H
01	3,842	15,000	95	2.1	7.3	0.65	214	228.2	108	12.2	137
03	7,115	13,000	115	2.1	15.9	1.24	246	255.7	121	13.7	165
05	8,967	11,600	125	2.1	22.1	1.80	276	285.5	134	17.5	180
10	10,780	11,600	125	2.1	22.1	1.80	276	287.0	134	19.0	180
15	15,386	10,300	140	2.4	45.0	3.70	308	339.0	160	19.0	200
20	25,578	9,200	158	2.9	58.0	6.80	346	388.5	183	22.5	228
25	37,730	8,500	165	3.1	110.0	10.80	375	424.0	198	28.0	240
30	47,138	7,800	178	3.3	150.0	16.70	410	459.0	214	31.0	258
35	57,036	7,200	187	3.6	170.0	25.0	445	481.0	225	31.0	272
40	64,386	6,800	205	4.0	170.0	31.10	470	528.0	247	34.0	297
45	83,594	6,200	231	4.5	170.0	48.00	511	591.5	278	35.5	334
50	103,194	5,700	254	5.0	310.0	74.40	556	647.0	305	37.0	364
55	128,086	5,400	263	5.2	360.0	101.60	587	671.5	317	37.5	382

\* Coupling Weight is without Bore Machining

## KE4 Type

**Double Disc Flex with Eight Bolts (Spacer Type)**



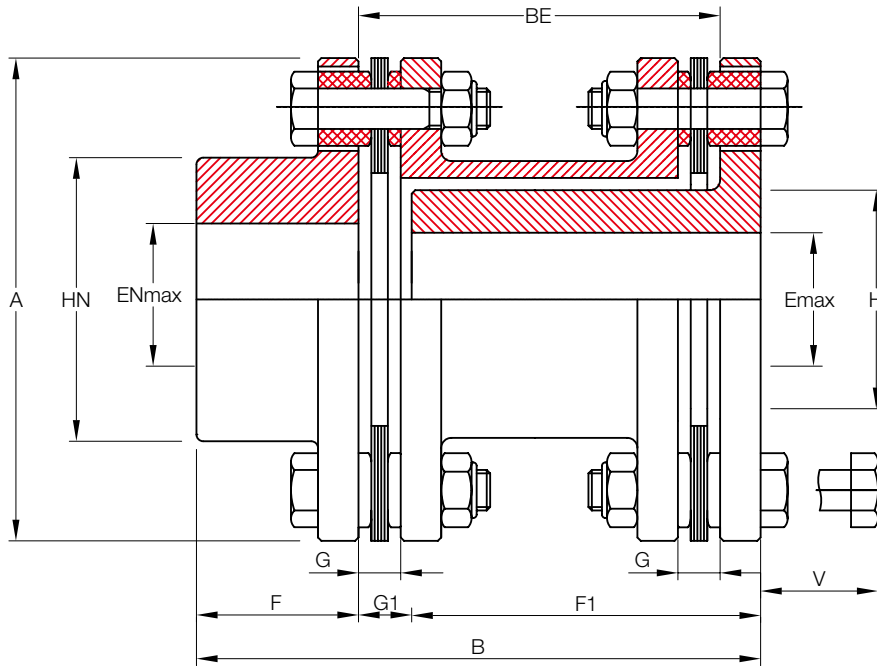
Angular Misalignment = 0.5°  
8 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Shaft Line Displacement (mm)	Bolt Torque (Kg.m)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)					
								A	B	F	G	H	BE
01	3,842	15,000	95	38.0	2.1	7.3	0.64	214	333	108	12.2	137	117
03	7,115	13,000	115	60.0	2.1	15.9	1.36	246	369	121	13.7	165	127
05	8,967	11,600	125	82.3	2.1	22.1	2.30	276	421	134	17.5	180	153
10	10,780	11,600	125	83.3	2.1	22.1	2.30	276	421	134	19.0	180	153
15	15,386	10,300	140	119.7	2.4	45.0	3.70	308	492	160	19.0	200	172
20	25,578	9,200	158	174.3	2.9	58.0	6.80	346	557	183	22.5	228	191
25	37,730	8,500	165	233.8	3.1	110.0	10.80	375	619	198	28.0	240	223
30	47,138	7,800	178	305.3	3.3	150.0	16.70	410	682	214	31.0	258	254
35	57,036	7,200	187	367.4	3.6	170.0	25.00	445	720	225	31.0	272	270
40	64,386	6,800	205	447.5	4.0	170.0	31.10	470	768	247	34.0	297	274
45	83,594	6,200	231	591.6	4.5	170.0	48.00	511	843	278	35.5	334	287
50	103,194	5,700	254	761.4	5.0	310.0	74.70	556	902	305	37.0	364	292
55	128,086	5,400	263	901.9	5.2	360.0	101.60	587	945	317	37.5	382	311

\* Coupling Weight is without Bore Machining

## KSC & KEC Type

Close Coupled (Spacer Type)



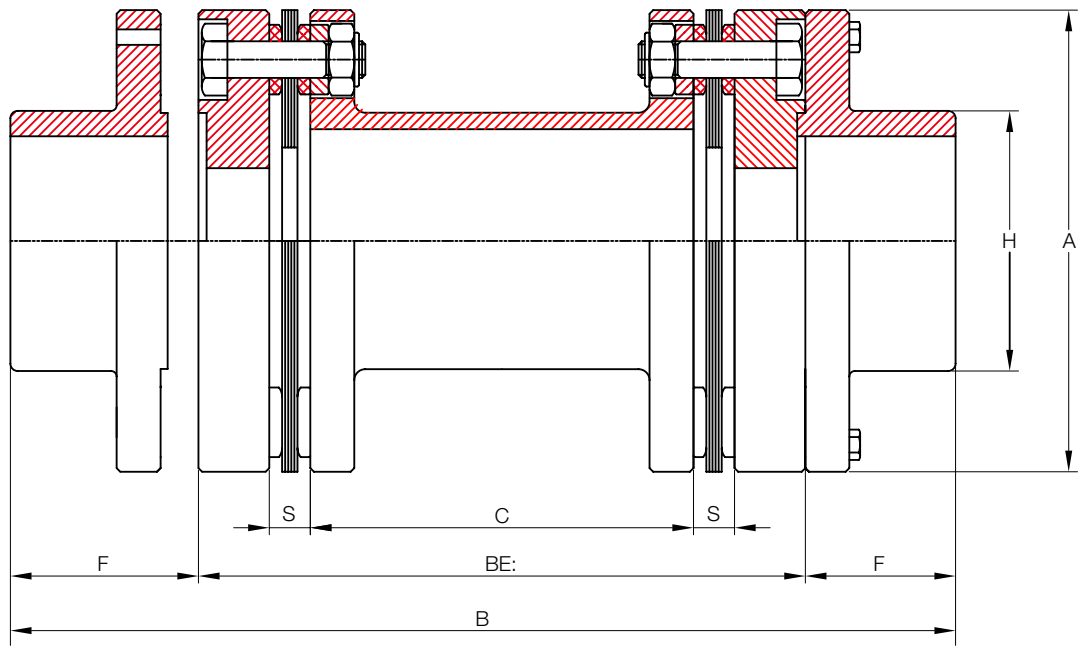
Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Min Bore (mm)	Cplg Weight (Kg)	Axial Deflection (mm)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)									
								A	B	D(BE)	G	F	F1	G1	HN	H	V
KSC 00	568	26,000	51	40	6.2	3.0	0.04	119	126	60	10.3	54	60	12	74	58	51
KSC 01	921	23,000	56	46	9.5	3.4	0.08	137	147	70	11.0	63	70	14	81	67	55
KSC 02	1,705	19,000	67	52	16.2	3.6	0.12	161	164	75	12.0	74	75	15	97	76	64
KSC 03	3,342	17,000	72	56	21.6	.2	0.28	180	188	90	14.0	80	90	18	104	81	77
KSC 04	4,900	15,000	85	66	35.8	4.5	0.60	212	215	100	17.0	95	100	20	124	96	88

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Min Bore (mm)	Cplg Weight (Kg)	Axial Deflection (mm)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)									
								A	B	D(BE)	G	F	F1	G1	HN	H	V
KEC 01	3,842	15,000	95	84	29.8	2.1	0.60	214	216	90	12.2	108	93	15	137	122	77
KEC 03	7,115	13,000	115	98	45.2	2.1	1.12	246	234	95	13.7	121	98	15	165	142	77
KEC 05	8,967	11,600	125	101	60.7	2.1	1.60	276	264	110	17.5	134	105	25	180	147	88
KEC 10	10,780	11,600	125	101	65.1	2.1	1.60	276	264	110	19.0	134	105	25	180	147	88
KEC 15	15,386	10,300	140	118	98.8	2.4	3.32	308	303	120	19.0	160	118	25	200	171	101
KEC 20	25,578	9,200	158	136	141.0	2.9	6.00	346	336	130	22.5	183	127	26	228	197	107
KEC 25	37,730	8,500	165	147	201.0	3.1	9.92	375	374	150	28.0	198	145	31	240	213	128
KEC 30	47,138	7,800	178	159	259.0	3.3	15.20	410	407	165	31.0	214	160	33	258	231	140
KEC 35	57,036	7,200	187	170	315.0	3.6	23.10	445	430	175	31.0	225	170	35	272	245	149
KEC 40	64,386	6,800	205	187	378.0	4.0	28.90	470	457	180	34.0	247	175	35	297	271	157
KEC 45	83,594	6,200	231	208	489.0	4.5	42.10	511	508	195	35.5	278	190	40	334	302	168
KEC 50	103,194	5,700	254	233	615.0	5.0	65.40	556	540	200	37.0	305	195	40	364	338	174
KEC 55	128,086	5,400	263	240	739.0	5.2	90.10	587	562	210	37.5	317	205	40	382	348	180

\* Coupling Weight is without Bore Machining

## KSP & KEP Type

### Plug-in (Spacer Type)



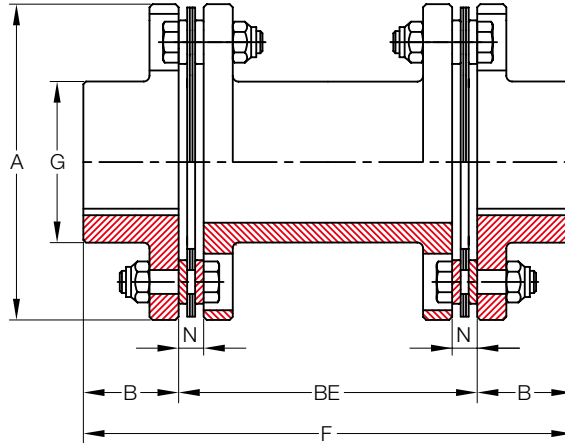
Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Axial Deflection (mm)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)						
							A	B	C	BE	S	F	H
KSP 00	568	26,000	68	8.4	3.0	0.072	128	256	90	120	15	68	100
KSP 01	921	23,000	78	11.5	3.4	0.128	146	276	84	120	18	78	112
KSP 02	1,705	19,000	96	21.4	3.6	0.340	170	322	98	140	21	96	138
KSP 03	3,342	17,000	104	33.7	4.2	0.684	198	378	116	170	27	104	150
KSP 04	4,900	15,000	123	51.7	4.5	1.420	226	426	118	180	31	123	178
KSP 05	6,076	11,600	160	96.8	3.9	4.092	282	540	158	220	31	160	232
KSP 10	8,232	11,600	158	100.0	3.9	4.880	294	540	158	220	31	160	228
KSP 15	10,682	10,300	182	153.0	4.2	8.952	330	614	174	250	38	182	264
KSP 20	17,836	9,200	206	216.0	4.9	15.240	366	692	196	280	42	206	300
KSP 25	26,362	8,500	224	309.0	5.2	30.672	422	768	220	320	50	224	324
KSP 30	33,418	7,800	244	395.0	5.4	43.532	452	848	250	360	55	244	354
KSP 35	39,886	7,200	260	505.0	5.6	70.152	498	910	270	390	60	260	376
KSP 40	46,256	6,800	276	576.0	6.3	88.312	522	942	270	390	60	276	400
KSP 45	59,780	6,200	304	749.0	6.7	131.900	564	1,028	288	420	66	304	442

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Axial Deflection (mm)	GD <sup>2</sup> (Kg.m <sup>2</sup> )	Dimensions (Millimeters)						
							A	B	C	BE	S	F	H
KEP 03	7,115	13,000	144	69.9	2.1	2.592	258	468	124	180	28	144	208
KEP 05	8,967	11,600	160	96.8	2.1	4.092	282	540	158	220	31	160	232
KEP 10	10,780	11,600	158	100.0	2.1	4.880	294	540	158	220	31	160	228
KEP 15	15,386	10,300	182	153.0	2.4	8.952	330	614	174	250	38	182	264
KEP 20	25,578	9,200	206	216.0	2.9	15.240	366	692	196	280	42	206	300
KEP 25	37,730	8,500	224	309.0	3.1	30.672	422	768	220	320	50	224	324
KEP 30	47,138	7,800	244	395.0	3.3	43.532	452	848	250	360	55	244	354
KEP 35	57,036	7,200	260	505.0	3.6	70.152	498	910	270	390	60	260	376
KEP 40	64,386	6,800	276	576.0	4.0	88.312	522	942	270	390	60	276	400
KEP 45	83,594	6,200	-	749.0	4.5	131.900	564	1,028	288	420	66	304	442

\* Coupling Weight is without Bore Machining

# K52 Type

## Double Disc Flex (Spacer Type)



Size	Max Contin. Torque (Nm)	Peak Torque (Nm)	Max Speed (RPM)		Cplg Weight (Kg)	Change of "C" Weight (Kg)	WR <sup>2</sup> (Kg.m <sup>2</sup> )	Change of "C" WR <sup>2</sup> (Kg.m <sup>2</sup> )	Axial Capacity (mm)	Max. kW Per 100RPM S.F = 1.0
			Not Balanced RPM	Balanced RPM						
125	305	610	5,000	15,000	2.1	0.003	0.0022	0.00170	±0.91	3.2
162	604	1,208	4,600	15,000	3.3	0.004	0.0046	0.00310	±0.91	6.3
200	1,185	2,371	4,250	15,000	5.6	0.004	0.0128	0.00670	±0.91	12.5
225	1,976	3,951	4,100	14,000	7.3	0.006	0.0178	0.00980	±0.91	20.7
262	3,706	7,413	3,900	13,000	11.8	0.009	0.0401	0.01800	±1.09	38.9
312	5,803	11,605	3,450	11,700	18.8	0.012	0.0878	0.03600	±1.29	60.8
350	7,552	15,105	3,200	10,500	26.6	0.015	0.1540	0.05500	±1.42	79.0
375	11,323	22,646	3,000	9,400	36.3	0.018	0.2660	0.08300	±1.57	118.6
425	15,161	30,323	2,800	8,700	47.2	0.026	0.4040	0.13500	±1.70	158.8
450	16,979	33,958	2,700	8,100	57.7	0.026	0.5760	0.16600	±1.82	178.2
500	27,817	55,633	2,500	7,100	89.0	0.041	1.1120	0.31300	±2.02	291.5
550	37,300	74,599	2,300	6,300	127.6	0.052	2.0190	0.49500	±2.33	390.7
600	48,973	97,945	2,150	5,700	168.0	0.059	3.2770	0.70500	±2.59	512.9
700	76,180	152,359	1,950	5,000	257.4	0.082	6.5250	1.19000	±2.92	798.5
750	94,694	189,388	1,850	4,600	323.2	0.093	9.6850	1.65000	±3.17	992.4
800	121,777	243,554	1,750	4,300	413.6	0.107	15.0500	2.30000	±3.45	1,276.50
850	143,712	287,424	1,600	3,900	503.5	0.107	20.9800	2.30000	±3.65	1,506.10
925	194,626	389,253	1,500	3,600	662.4	0.143	32.6000	4.61000	±3.96	2,039.20
100	220,140	440,280	-	3,250	853.5	0.161	50.3000	5.83000	±4.36	2,306.90
1100	262,475	524,949	-	3,100	1021.5	0.197	68.9100	9.15000	±4.64	2,750.50
1200	320,050	640,099	-	2,800	1366.5	0.268	110.1600	13.78000	±5.15	3,353.70
1300	382,705	765,410	-	2,600	1661.6	0.268	153.2300	15.55000	±5.53	4,010.60

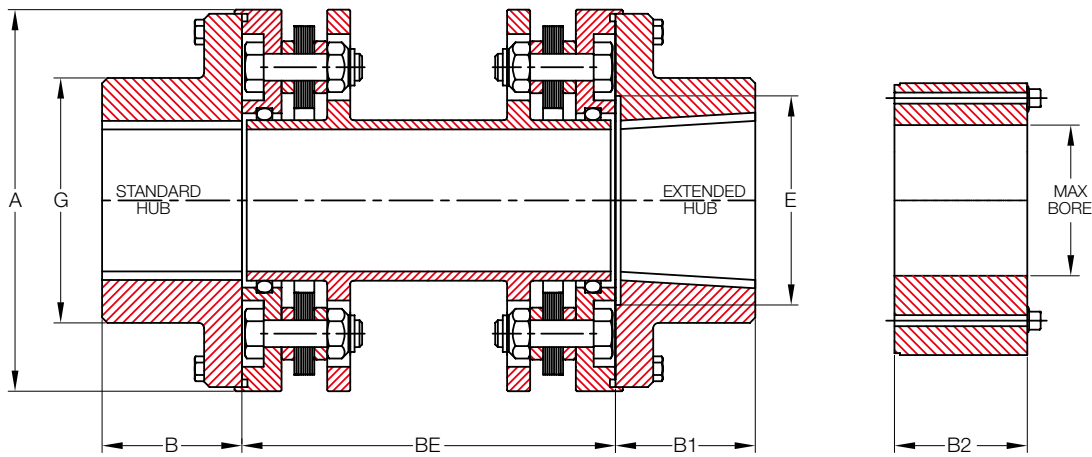
Size	Max Bore (mm)	Dimensions (Millimeters)						
		A	B	C		F	G	N
				Std	Min			
125	34	94	33	102	-	168	52	7
162	50	110	44	127	52	216	70	7
200	58	138	52	127	67	232	83	9
225	70	145	67	127	70	260	96	9
262	84	168	73	127	82	273	114	12
312	97	198	86	140	95	311	133	13
350	110	221	95	152	106	343	149	14
375	120	246	102	178	117	381	165	15
425	130	267	108	178	125	394	178	16
450	140	287	114	203	136	432	189	18
500	146	327	127	229	153	483	213	20

Size	Max Bore (mm)	Dimensions (Millimeters)						
		A	B	C		F	G	N
				Std	Min			
550	166	367	140	254	175	533	240	23
600	176	406	152	254	191	559	260	25
700	205	464	178	279	217	635	298	30
750	224	503	191	279	235	660	321	32
800	241	546	210	305	255	724	346	34
850	250	584	222	330	273	775	368	36
925	267	635	241	356	292	838	400	38
100	290	699	267	368	-	902	438	43
1100	314	741	286	406	-	978	470	44
1200	339	816	311	432	-	1,054	514	50
1300	376	876	337	457	-	1,130	556	52



## K71 Type

Double Disc Flex with Four, Six & Eight Bolts (Spacer Type)



Size	B & B1 Hub Max Bore (mm)	B2 Hub Max Bore (mm)	Dimensions (Millimeters)							
			A	B	B1	B2	C		E Max	G
							Std	Min		
150 (4-Bolt)	39	64	91	33	43	41	89	87	52	59
175 (4-Bolt)	50	73	106	40	52	46	89	87	65	71
225 (6-Bolt)	58	87	125	51	64	52	127	87	78	85
300 (6-Bolt)	81	110	152	67	83	70	127	102	105	113
350 (6-Bolt)	95	120	171	79	95	76	127	124	127	133
375 (6-Bolt)	100	137	194	83	102	83	140	127	135	144
412 (6-Bolt)	110	145	203	92	111	92	178	155	146	155
462 (6-Bolt)	130	166	229	105	127	105	178	178	160	174
512 (6-Bolt)	140	187	255	114	137	114	178	191	179	194
562 (6-Bolt)	156	200	279	127	152	127	203	203	195	213
600 (6-Bolt)	166	220	298	133	162	133	229	229	211	227
225 (8-Bolt)	80	106	152	64	79	78	127	121	106	116
262 (8-Bolt)	95	128	175	78	94	90	178	140	119	132
312 (8-Bolt)	112	145	203	90	109	105	191	152	146	160
350 (8-Bolt)	130	166	227	99	121	114	191	171	165	179
375 (8-Bolt)	144	185	252	113	135	131	191	184	181	202
425 (8-Bolt)	158	203	273	124	149	140	203	191	189	214
450 (8-Bolt)	170	214	294	129	157	152	229	222	213	236
500 (8-Bolt)	196	248	333	151	179	171	279	260	232	267
550 (8-Bolt)	215	-	373	167	198	-	292	292	254	292
600 (8-Bolt)	242	-	416	183	214	-	318	318	298	336
700 (8-Bolt)	258	-	471	211	246	-	368	368	325	373
750 (8-Bolt)	286	-	511	227	262	-	400	400	363	413

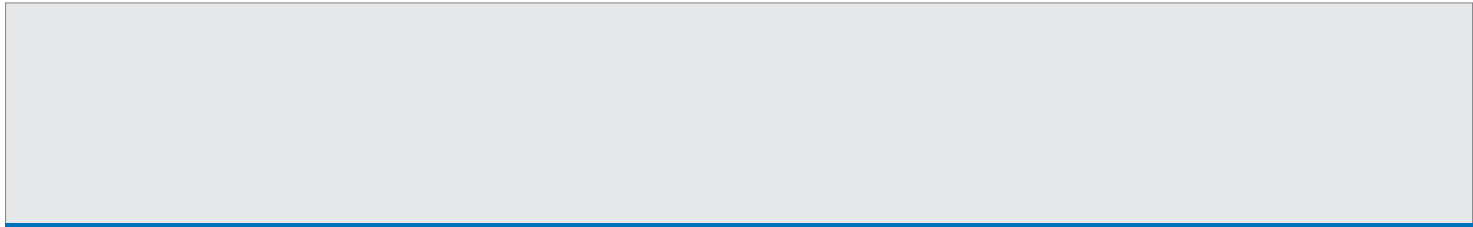
Size	Max Contin. Torque (Nm)	Peak Torque (Nm)	Max Speed (RPM)		Cplg Weight (Kg)	Change of "C" Weight (Kg)	WR <sup>2</sup> (Kg.m <sup>2</sup> )	Change of "C" WR <sup>2</sup> (Kg.m <sup>2</sup> )	Axial Capacity (mm)	Max. kW Per 100RPM S.F = 1.0
			Not Balanced RPM	Balanced RPM						
150 (4-Bolt)	105	210	9,000	20,800	3.0	0.0018	0.0031	0.00035	±0.1270	1.1
175 (4-Bolt)	184	368	8,300	17,000	4.3	0.0025	0.0060	0.00104	±0.1778	1.9
225 (6-Bolt)	345	691	7,700	16,000	6.4	0.0034	0.0123	0.00288	±0.1905	3.6
300 (6-Bolt)	820	1,639	6,800	14,000	11.8	0.0046	0.0354	0.00760	±2.1590	8.6
350 (6-Bolt)	1,513	3,026	6,200	13,500	19.5	0.0075	0.0758	0.01360	±2.2960	15.8
375 (6-Bolt)	2,179	4,358	5,650	12,000	25.0	0.0077	0.1238	0.01870	±2.4130	22.8
412 (6-Bolt)	2,540	5,080	5,350	11,000	32.2	0.0107	0.1799	0.03340	±2.7940	26.6
462 (6-Bolt)	4,561	9,122	5,000	10,000	45.9	0.0143	0.3248	0.05360	±3.0480	47.8
512 (6-Bolt)	6,209	12,418	4,700	9,200	61.3	0.0186	0.5355	0.08560	±3.3020	65.0
562 (6-Bolt)	9,494	18,988	4,350	8,300	84.4	0.0229	0.8837	0.12000	±3.6830	99.4
600 (6-Bolt)	10,352	20,704	4,150	7,800	103.5	0.0313	1.2436	0.20200	±4.0640	108.4
225 (8-Bolt)	1,976	3,952	7,500	14,000	12.6	0.0068	0.0375	0.01230	±0.9100	20.7
262 (8-Bolt)	3,706	7,412	6,800	12,500	19.5	0.0082	0.0775	0.02250	±1.0900	38.8
312 (8-Bolt)	5,803	11,606	6,200	11,500	30.0	0.0098	0.1697	0.03850	±1.2900	60.8
350 (8-Bolt)	7,552	15,104	5,700	10,500	43.0	0.0134	0.3017	0.06490	±1.4200	79.1
375 (8-Bolt)	11,323	22,646	5,200	9,800	61.0	0.0188	0.5220	0.10600	±1.5700	118.6
425 (8-Bolt)	15,161	30,322	5,000	9,300	77.0	0.0218	0.7654	0.14500	±1.7000	158.8
450 (8-Bolt)	16,979	33,958	4,700	8,700	100.0	0.0284	1.1763	0.20700	±1.8200	177.8
500 (8-Bolt)	27,817	55,634	4,200	7,900	155.0	0.0379	2.3525	0.36200	±2.0200	291.3
550 (8-Bolt)	37,300	74,600	3,900	7,300	216.0	0.0474	4.0759	0.57400	±2.3400	390.6
600 (8-Bolt)	48,973	97,946	3,600	6,800	296.0	0.0545	7.0604	0.79600	±2.5900	512.9
700 (8-Bolt)	76,180	152,360	3,300	6,200	436.0	0.0738	13.1377	1.36000	±2.9200	797.8
750 (8-Bolt)	94,694	189,388	3,100	5,800	564.0	0.0924	20.2538	2.02000	±3.1800	991.7



**INNOBIZ**  
INNOBIZCOMPANY



[www.koreacoupling.co.kr](http://www.koreacoupling.co.kr)



**KOREA COUPLING CO., LTD.**  
PTE Manufacturer, Sales & Trade Biz

**H.Q & Factory**

91-22 Songma-Ro, Daegod-Myeon,  
Gimpo-Si, Gyeonggi-Do. 10027, Republic of Korea  
Tel. +82 31 981 1926 (Rep.)  
Fax. +82 31 981 1928  
E-mail. [sales@koreacoupling.co.kr](mailto:sales@koreacoupling.co.kr)