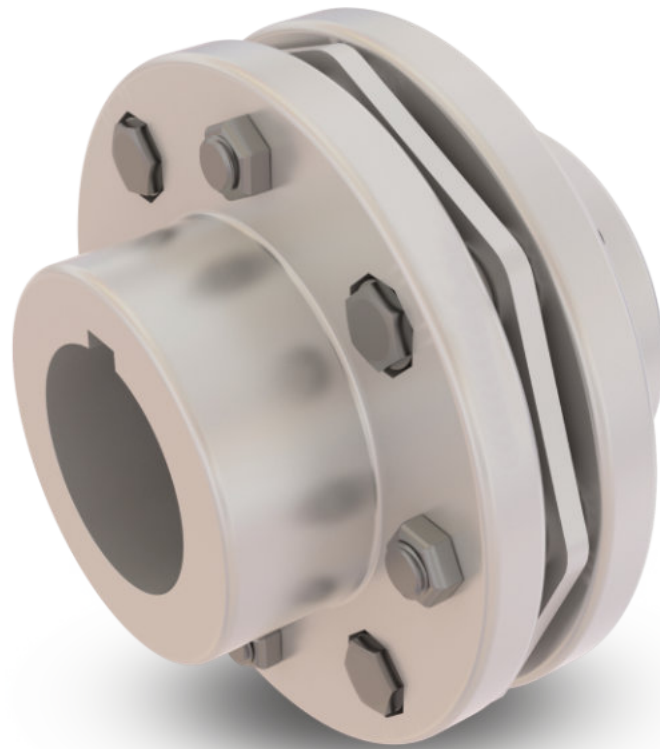


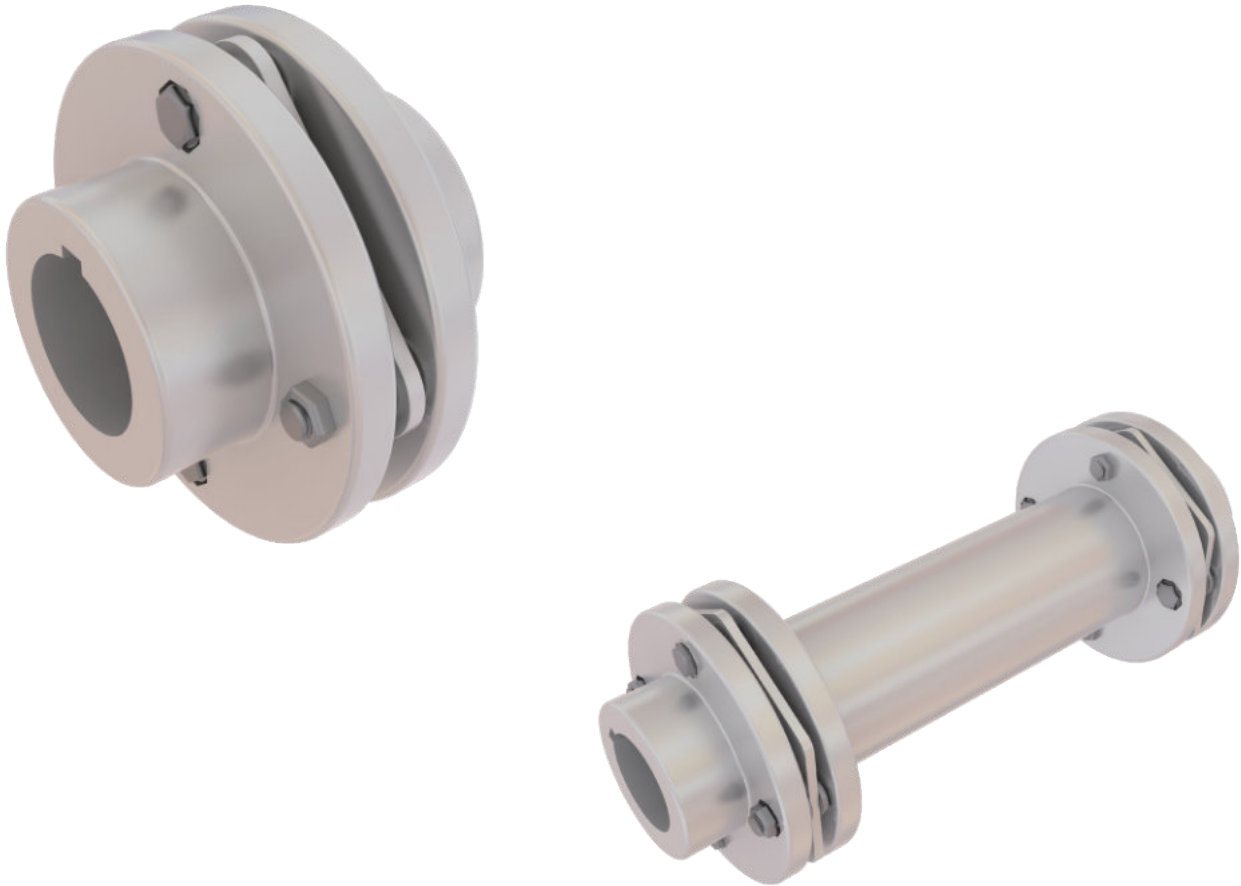


UK Flowtechnik

Disc Flexible Couplings



Disc Flexible Couplings



UK Flowtechnik 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 centre member, generally an open lug type, minimises 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 from carbon steel, SM45C. The central member is self centring 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 Couplings are interchangeable with many of the industry standard products.

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)



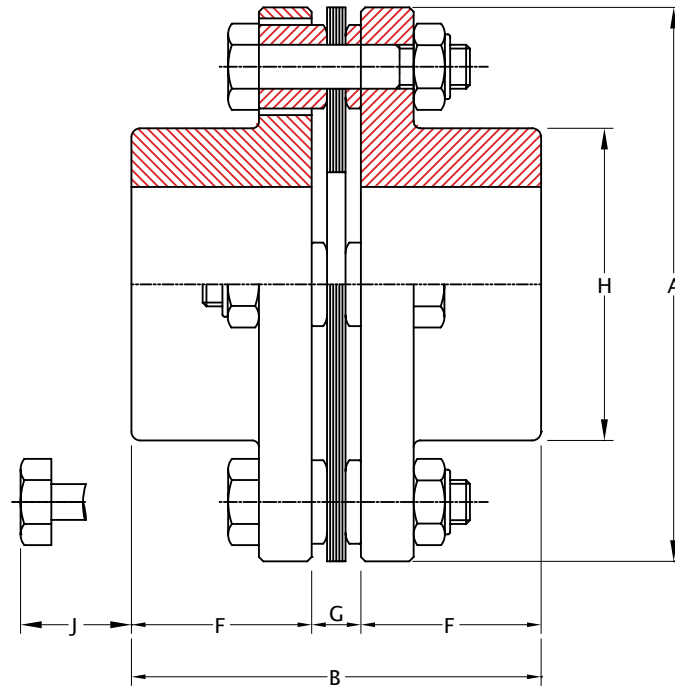
K52 Type (Spacer)



K71 Type (Spacer)

KF3 Type

Single Disc Flex with Four Bolts



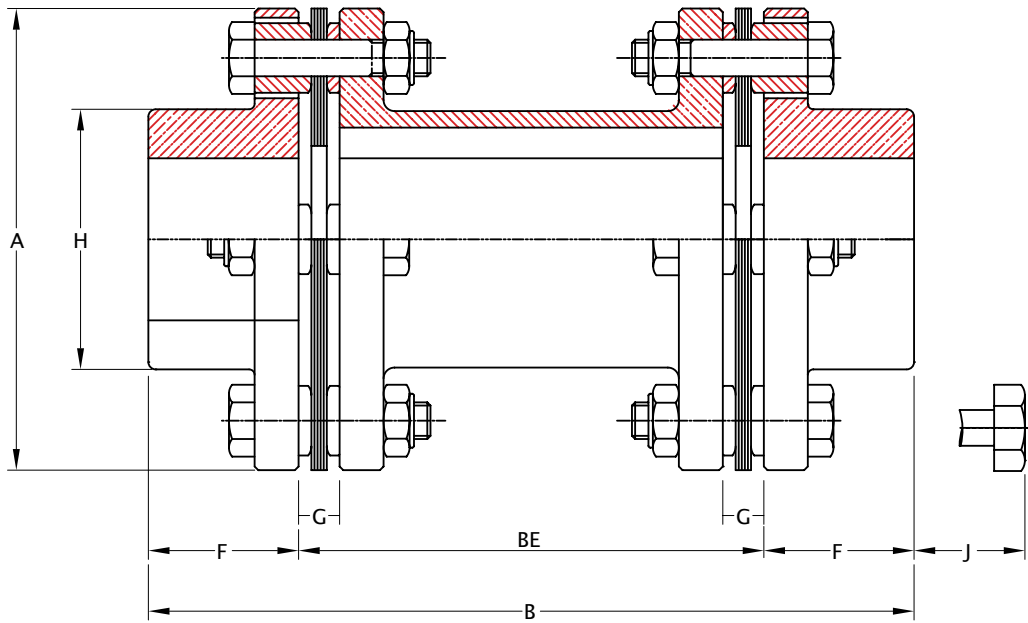
Angular Misalignment = 1.0°
4 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Bolt Torque (Kg.m)	GD ² (Kg.m ²)	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



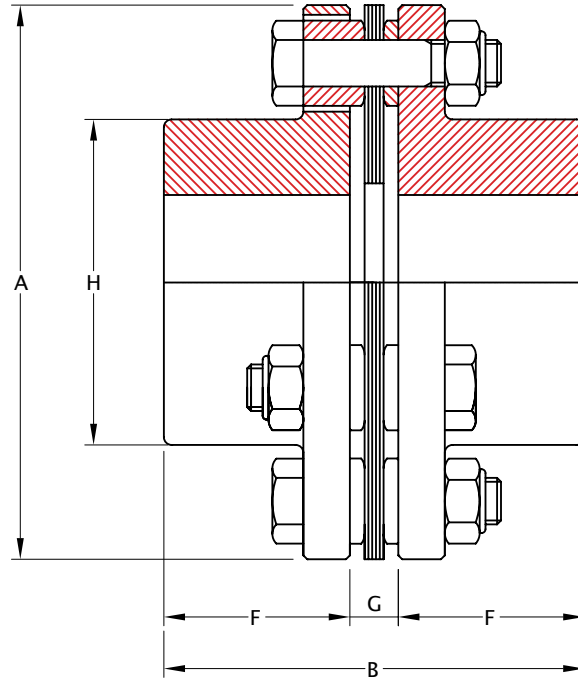
Angular Misalignment = 1.0°
4 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Bolt Torque (Kg.m)	GD ² (Kg.m ²)	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



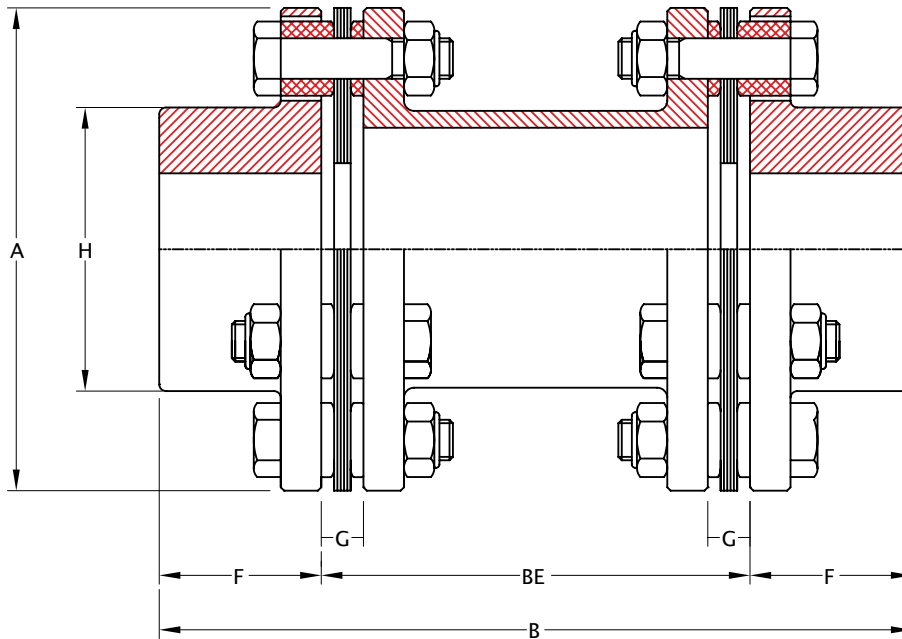
Angular Misalignment = 0.7°
6 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Shaft Line Displacement (mm)	Bolt Torque (Kg.m)	GD ² (Kg.m ²)	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

* Coupling Weight is without Bore Machining

KS4 Type

Double Disc Flex with Six Bolts Spacer Type



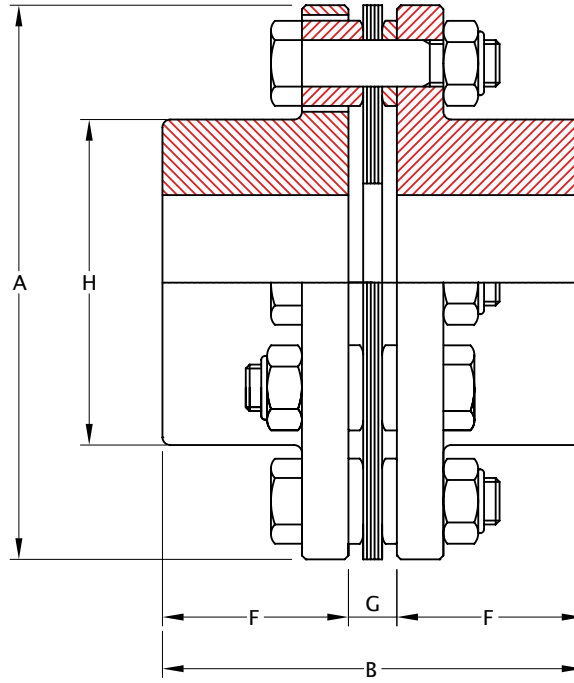
Angular Misalignment = 0.7°
6 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Cplg Weight (Kg)	Shaft Line Displacement (mm)	Bolt Torque (Kg.m)	GD ² (Kg.m ²)	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



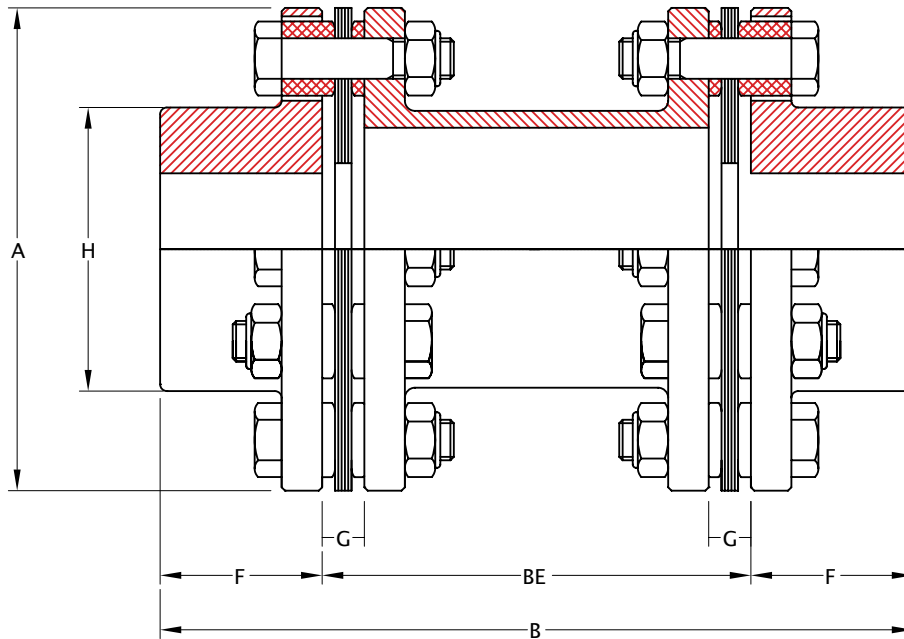
Angular Misalignment = 0.5°
8 Bolt Holes

Size	Torque Rating (Nm)	Allow Speed RPM	Max Bore (mm)	Shaft Line Displacement (mm)	Bolt Torque (Kg.m)	GD ² (Kg.m ²)	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 ² (Kg.m ²)	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