KOP-FLEX®

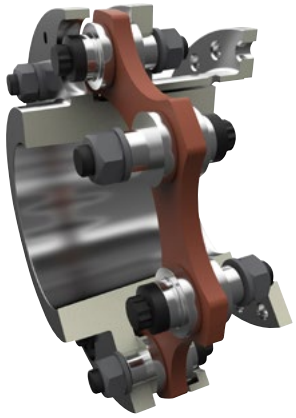
HIGH PERFORMANCE DISC COUPLING 2.0

FOR THE OIL & GAS INDUSTRY

REGAL®

INTRODUCING HIGH PERFORMANCE DISC 2.0

Kop-Flex high performance couplings have been supplied to the global oil and gas industry for over 30 years and have amassed over one billion hours of reliable operation in API 671 applications. Leveraging this experience, the next generation of disc coupling was developed to enable continued improvements in the turbomachinery equipment. Gas turbines and compressors are being designed for increased efficiency by leveraging smaller form factors and higher speeds, creating rotordynamic challenges. To achieve the best weight and power density possible, a more compact coupling was designed and optimized for the torque requirements of the application. Building on our foundation of reliability, safety and exceptional performance, the Kop-Flex High Performance Disc Coupling 2.0 was created for your highly engineered equipment.

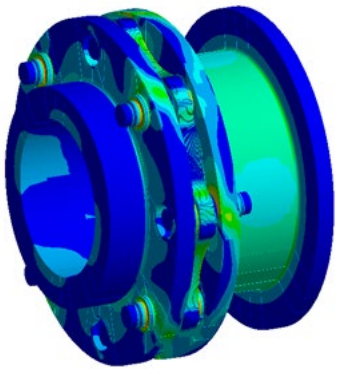


ADVANTAGES

- Optimized disc geometry improves stress distribution and reduces reaction loads
- 15-30% weight reduction compared to our previous generation coupling
- Lowest overhung moment available
- Reduced coupling diameter decreases windage effects
- 22 sizes available to align with common inch and metric shafts
- Weight reduction decreases imbalance forces on equipment

The next generation Kop-Flex disc coupling is an evolutionary design developed using cutting edge analysis tools and techniques, including:

- Advanced finite element analysis
- In-house static and dynamic testing
- Fatigue life testing



Development leveraged our in-house R&D facility, which includes state-of-the-art test stands and precision instrumentation specifically designed for the development of next generation coupling products. Analysis and testing complexity ranged from individual components to complete couplings to determine the product ratings met requirements. These improved analysis techniques enable technical details and in-depth analysis of application specific designs to be delivered quickly and confidently.

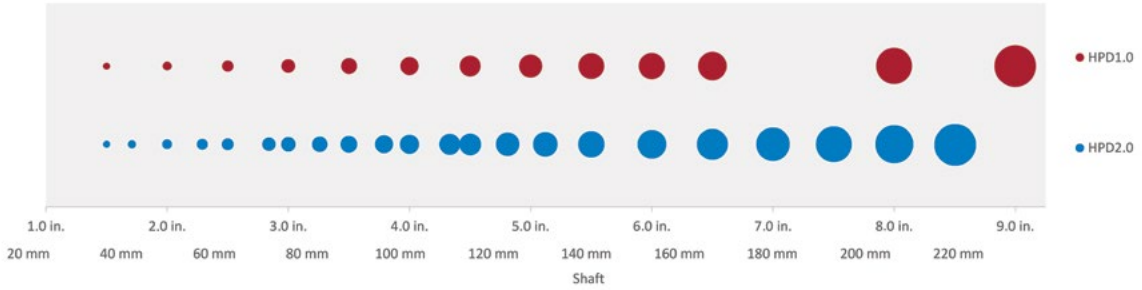
PRODUCT LINE OVERVIEW

The High Performance Disc Coupling 2.0 product line consists of two reduced moment styles: the RMS and RZS. The RMS is a full featured disc coupling providing a reduced windage design and interlocking flanges for additional protection in the event of a disc pack failure. The RZS coupling provides a more cost effective solution, with non-interlocking flanges. Optional coupling features also include:

- Powerlign® torquemeter
- Lateral and torsional tuning
- Electrical insulation
- Shear device
- Corrosion resistant material

OPTIMIZED COUPLING SELECTION

Shaft diameter drives the selection of reduced moment couplings for most high speed equipment. The product line was designed with 22 sizes to match the most common inch and metric shafts, providing an optimized coupling selection for each application. The Kop-Flex High Performance Disc Coupling 2.0 is designed to be the lightest coupling available on the market, enabling the highest performance in critical applications.



SELECTION EXAMPLE

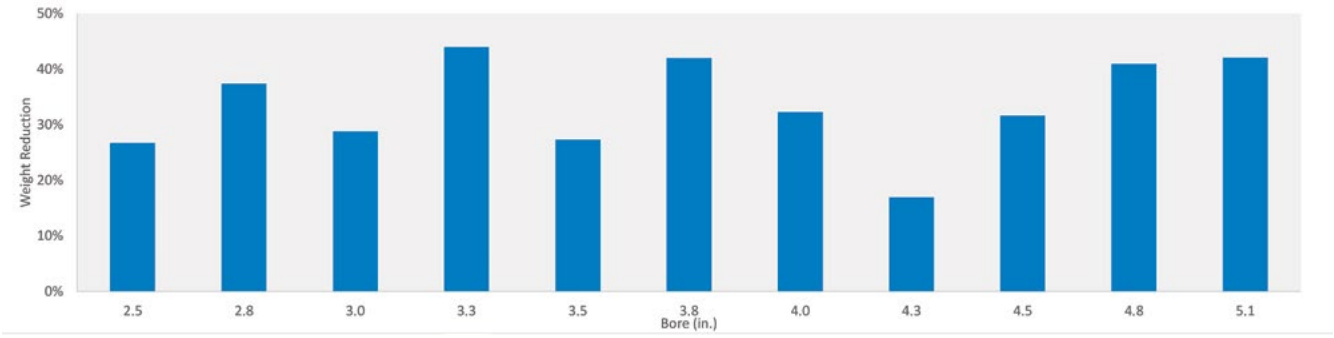
Compressor train for top oil and gas producer's offshore project:

Application Info		
Equipment	Gearbox to Compressor	
Driver Rated Torque - lb-in (N-m)	28,000 (3,164)	
Max Continuous Speed (rpm)	13,000	
Coupling Details	**Previous Generation**	**Disc Coupling 2.0**
Spacer Material	Titanium	Alloy Steel
Max OD - in. (mm)	6.56 (166)	5.86 (149)
Driving Half Weight - lb (kg)	17.1 (7.76)	14.6 (6.62)
Driven Half Weight - lb (kg)	17.1 (7.76)	14.6 (6.62)

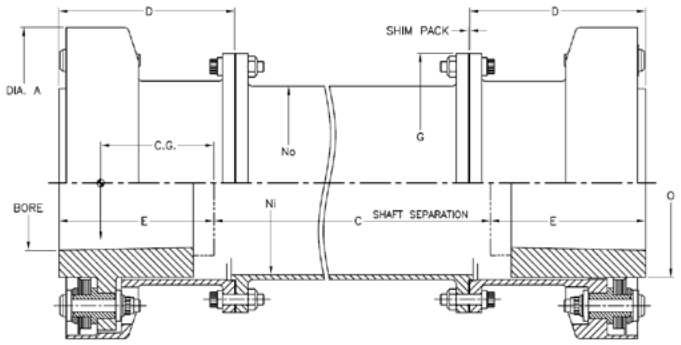
The Kop-Flex High Performance Disc Coupling 2.0 selection enabled the customer to use a more cost-effective alloy steel spacer while still achieving a 15% weight reduction and meeting all application requirements.

LIGHTEST WEIGHT COUPLING

Average weight reduction of over 30% compared to the previous generation.



RMS Disc Coupling (inch)



RMS Coupling Selection Data

Size	① Nominal Bore Capacity (in)	④ Max. Continuous Torque Rating (lb-in)	⑤ Max. Momentary Torque Rating (lb-in)	Maximum Speed (RPM)	⑥ Total Weight (lb)	⑥ Total WR^2 ($lb\text{-}in^2$)	⑥ Half Coupling C.G. (in)	⑥ Torsional Stiffness K (E6 lb-in/rad)
2103	1.6	12000	19000	34300	13	25	1.6	0.4
2504	1.7	22000	35000	33000	17	45	1.7	0.5
3004	2.0	30000	48000	30800	19	55	1.8	0.7
3304	2.3	39000	62000	29400	22	75	2.0	0.9
3604	2.5	53000	85000	26700	27	110	2.3	1.3
4104	2.8	76000	121000	23700	34	180	2.6	1.7
4304	3.0	90000	144000	22500	39	230	2.7	2.1
4704	3.3	115000	184000	20700	48	330	2.8	2.8
5104	3.5	147000	235000	19100	62	500	3.0	3.5
5504	3.8	180000	288000	17800	74	680	3.3	4.6
5804	4.0	215000	344000	16800	88	910	3.4	5.4
6204	4.3	268000	428000	15600	106	1300	3.7	7.1
6504	4.5	301000	481000	15000	120	1600	3.8	8.3
6904	4.8	367000	587000	14100	145	2100	4.0	10
7404	5.1	425000	680000	13200	170	2900	4.4	13
7904	5.5	527000	843000	12300	218	4300	4.6	16
8604	6.0	670000	1070000	11300	272	6400	4.9	21
9404	6.5	842000	1350000	10400	341	9300	5.6	28
10104	7.0	1020000	1630000	9700	434	14000	5.9	35
10804	7.5	1270000	2030000	9000	524	19000	6.2	45
11604	8.0	1550000	2480000	8400	655	28000	6.6	55
12404	8.6	1880000	3010000	7900	779	37000	7.0	69

Axial Data

Size	⑦⑧ Maximum Continuous Axial Displacement (in)	Maximum Force (lb)
2103	± 0.080	120
2504	± 0.060	210
3004	± 0.070	240
3304	± 0.080	300
3604	± 0.090	360
4104	± 0.105	470
4304	± 0.110	530
4704	± 0.120	610
5104	± 0.130	690
5504	± 0.140	830
5804	± 0.150	940
6204	± 0.160	1100
6504	± 0.170	1300
6904	± 0.180	1400
7404	± 0.190	1600
7904	± 0.205	1900
8604	± 0.225	2100
9404	± 0.240	2400
10104	± 0.260	2800
10804	± 0.280	3400
11604	± 0.300	3800
12404	± 0.320	4400

RMS Dimensional Data

Size	A	D	G	No	Ni	② E Typical	MAXIMUM O	③ MINIMUM C
2103	4.06	4.02	3.69	2.16	1.91	1.98	2.25	7.8
2504	4.73	4.07	4.06	2.51	2.27	2.09	2.40	7.8
3004	5.07	4.08	4.33	2.91	2.67	2.38	2.80	7.8
3304	5.32	4.16	4.80	3.32	3.08	2.67	3.21	7.8
3604	5.86	4.19	5.13	3.66	3.42	2.97	3.54	7.8
4104	6.58	4.36	5.54	4.10	3.86	3.34	3.98	7.8
4304	6.95	4.48	5.80	4.33	4.09	3.51	4.21	7.8
4704	7.55	4.54	6.29	4.69	4.45	3.76	4.57	7.8
5104	8.19	5.07	6.88	5.09	4.83	4.04	4.96	7.8
5504	8.77	5.70	7.30	5.45	5.17	4.36	5.31	7.8
5804	9.30	5.90	7.74	5.78	5.48	4.58	5.63	7.8
6204	10.01	6.36	8.34	6.22	5.90	4.95	6.06	8.2
6504	10.40	6.48	8.67	6.47	6.13	5.13	6.30	8.3
6904	11.11	6.66	9.26	6.91	6.55	5.43	6.73	8.4
7404	11.84	7.12	9.86	7.36	6.98	5.87	7.17	8.8
7904	12.75	7.49	10.72	7.93	7.51	6.26	7.72	9.2
8604	13.85	8.27	11.54	8.59	8.15	6.74	8.39	10.2
9404	15.01	8.99	12.50	9.33	8.85	7.49	9.09	10.9
10104	16.18	9.45	13.60	10.06	9.54	8.00	9.80	11.3
10804	17.35	10.06	14.50	10.79	10.23	8.51	10.51	12.1
11604	18.59	10.90	15.75	11.56	10.96	9.04	11.26	13.2
12404	19.83	11.76	16.65	12.33	11.69	9.58	12.01	14.5

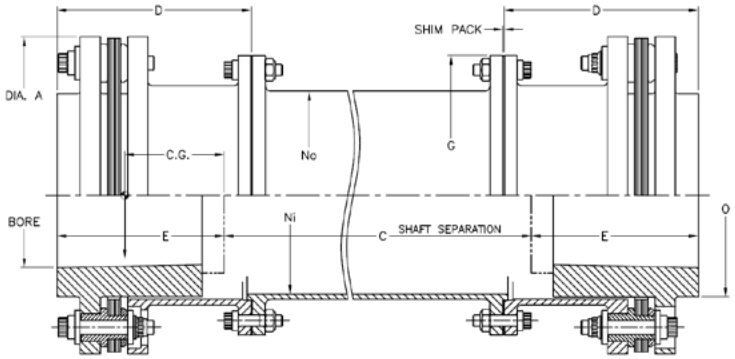
Angular Data

Size	⑧ Maximum Misalignment (deg)	Bending Stiffness (lb-in/deg)
2103	0.20	150
2504	0.20	475
3004	0.20	580
3304	0.20	680
3604	0.20	860
4104	0.20	1150
4304	0.20	1320
4704	0.20	1600
5104	0.20	1900
5504	0.20	2250
5804	0.20	2650
6204	0.20	3250
6504	0.20	3650
6904	0.20	4450
7404	0.20	5380
7904	0.20	6700
8604	0.20	8580
9404	0.20	10850
10104	0.20	13430
10804	0.20	16350
11604	0.20	19750
12404	0.20	23500

① Based on 1.4 hub O.D./ bore ratio; larger bores are possible, consult Kop-Flex for specific applications.
② Hub length includes nominal retaining nut width. It can be reduced for smaller bores with shorter bore lengths.
③ Minimum shaft separation for standard (E) bore lengths and installation without disturbing connected equipment. Shorter shaft separations are possible, contact Kop-Flex for more details
④ API 671 rating (0.2 degrees misalignment with full axial misalignment capacity).
⑤ Maximum momentary torque rating as defined by API 671 is used to evaluate events such as a generator short circuit. Other non-continuous/dynamic events, such as synchronous motor start-ups, are evaluated independently. For dynamic events, mean and alternating torques and required number of cycles must be provided to complete a fatigue analysis.
⑥ Based on coupling with 18 inch shaft separation and nominal tapered bores for keyless hydraulic shaft connections. Mass elastic data can be optimized to meet specific requirements.
⑦ For transient conditions 133% axial deflection is allowed
⑧ Higher misalignment ratings are possible by re-rating the torque and speed. Consult Kop-Flex.

Specifications and selection data are subject to change without notice.

RZS Disc Coupling (inch)



RZS Coupling Selection Data

Size	① Nominal Bore Capacity (in)	④ Max. Continuous Torque Rating (lb-in)	⑤ Max. Momentary Torque Rating (lb-in)	Maximum Speed (RPM)	⑥ Total Weight (lb)	⑥ Total WR² (lb-in²)	⑥ Half Coupling C.G. (in)	⑥ Torsional Stiffness K (E6 lb-in/rad)
2103	1.5	12000	19000	34300	12	20	1.1	0.4
2504	1.7	22000	35000	33000	15	35	1.2	0.5
3004	2.0	30000	48000	30800	17	45	1.5	0.7
3304	2.3	39000	62000	29400	21	70	1.7	0.9
3604	2.5	53000	85000	26700	26	100	1.9	1.3
4104	2.8	76000	121000	23700	34	160	2.2	1.7
4304	3.0	90000	144000	22500	38	210	2.3	2.2
4704	3.3	115000	184000	20700	46	290	2.4	2.9
5104	3.5	147000	235000	19100	60	450	2.6	3.7
5504	3.8	180000	288000	17800	71	630	2.8	4.8
5804	4.0	215000	344000	16800	85	830	3.0	5.6
6204	4.3	268000	428000	15600	103	1200	3.2	7.4
6504	4.5	301000	481000	15000	119	1500	3.4	8.7
6904	4.8	367000	587000	14100	140	2000	3.5	11
7404	5.1	425000	680000	13200	165	2600	3.8	13
7904	5.5	527000	843000	12300	214	4000	4.1	17
8604	6.0	670000	1070000	11300	265	5800	4.3	22
9404	6.5	842000	1350000	10400	331	8500	4.9	30
10104	7.0	1020000	1630000	9700	419	13000	5.2	36
10804	7.5	1270000	2030000	9000	508	18000	5.5	47
11604	8.0	1550000	2480000	8400	635	25000	5.8	57
12404	8.6	1880000	3010000	7900	748	34000	6.1	73

Axial Data

Size	⑦⑧ Maximum Continuous Axial Displacement (in)	Maximum Force (lb)
2103	± 0.080	120
2504	± 0.060	210
3004	± 0.070	240
3304	± 0.080	300
3604	± 0.090	360
4104	± 0.105	470
4304	± 0.110	530
4704	± 0.120	610
5104	± 0.130	690
5504	± 0.140	830
5804	± 0.150	940
6204	± 0.160	1100
6504	± 0.170	1300
6904	± 0.180	1400
7404	± 0.190	1600
7904	± 0.205	1900
8604	± 0.225	2100
9404	± 0.240	2400
10104	± 0.260	2800
10804	± 0.280	3400
11604	± 0.300	3800
12404	± 0.320	4400

RZS Dimensional Data

Size	A	D	G	No	Ni	② E Typical	MAXIMUM O	③ MINIMUM C
2103	3.88	4.47	3.69	2.25	2.00	1.89	2.12	8.8
2504	4.51	4.64	4.06	2.51	2.27	2.09	2.40	8.8
3004	4.82	4.54	4.33	2.91	2.67	2.38	2.80	8.8
3304	5.10	4.64	4.80	3.32	3.08	2.67	3.21	8.8
3604	5.58	4.69	5.13	3.66	3.42	2.97	3.54	8.8
4104	6.35	4.93	5.54	4.10	3.86	3.34	3.98	8.8
4304	6.67	5.06	5.80	4.33	4.09	3.51	4.21	8.8
4704	7.17	5.13	6.29	4.69	4.45	3.76	4.57	8.8
5104	7.77	5.74	6.88	5.09	4.83	4.04	4.96	8.8
5504	8.45	6.39	7.30	5.45	5.17	4.36	5.31	8.8
5804	8.88	6.58	7.74	5.78	5.48	4.58	5.63	9.0
6204	9.59	7.07	8.34	6.22	5.90	4.95	6.06	9.6
6504	10.08	7.20	8.67	6.47	6.13	5.13	6.30	9.7
6904	10.65	7.45	9.26	6.91	6.55	5.43	6.73	9.9
7404	11.28	7.93	9.86	7.36	6.98	5.87	7.17	10.4
7904	12.20	8.42	10.72	7.93	7.51	6.26	7.72	11.0
8604	13.22	9.28	11.54	8.59	8.15	6.74	8.39	12.2
9404	14.36	10.03	12.50	9.33	8.85	7.49	9.09	13.0
10104	15.34	10.57	13.60	10.06	9.54	8.00	9.80	13.6
10804	16.65	11.23	14.50	10.79	10.23	8.51	10.51	14.5
11604	17.75	12.24	15.75	11.56	10.96	9.04	11.26	15.9
12404	18.82	13.12	16.65	12.33	11.69	9.58	12.01	17.3

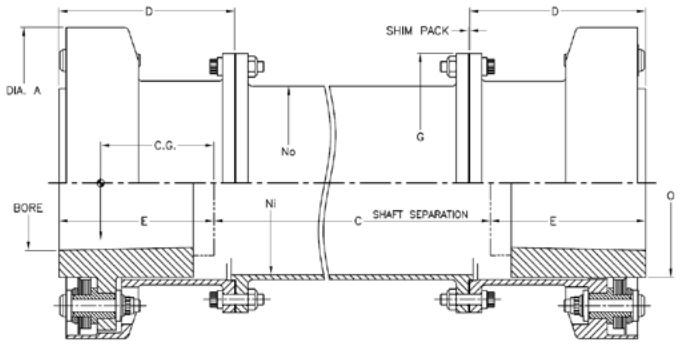
Angular Data

Size	⑧ Maximum Misalignment (deg)	Bending Stiffness (lb-in/deg)
2103	0.20	150
2504	0.20	475
3004	0.20	580
3304	0.20	680
3604	0.20	860
4104	0.20	1150
4304	0.20	1320
4704	0.20	1600
5104	0.20	1900
5504	0.20	2250
5804	0.20	2650
6204	0.20	3250
6504	0.20	3650
6904	0.20	4450
7404	0.20	5380
7904	0.20	6700
8604	0.20	8580
9404	0.20	10850
10104	0.20	13430
10804	0.20	16350
11604	0.20	19750
12404	0.20	23500

① Based on 1.4 hub O.D./ bore ratio; larger bores are possible, consult Kop-Flex for specific applications.
② Hub length includes nominal retaining nut width. It can be reduced for smaller bores with shorter fit lengths.
③ Minimum shaft separation for typical fit lengths (E) and installation without disturbing connected equipment. Shorter shaft separations are possible, contact Kop-Flex for more details
④ API 671 rating (0.2 degrees misalignment with full axial misalignment capacity).
⑤ Maximum momentary torque rating as defined by API 671 is used to evaluate events such as a generator short circuit. Other non-continuous/dynamic events, such as synchronous motor start-ups, are evaluated independently. For dynamic events, mean and alternating torques and required number of cycles must be provided to complete a fatigue analysis. ⑥ Data based on coupling with 18" shaft separation and nominal tapered bores for keyless hydraulic shaft connections; data can be changed to meet specific requirements.
⑥ Based on coupling with 18 inch shaft separation and nominal tapered bores for keyless hydraulic shaft connections. Mass elastic data can be optimized to meet specific requirements.
⑦ For transient conditions 133% axial deflection is allowed
⑧ Higher misalignment ratings are possible by re-rating the torque and speed. Consult Kop-Flex.

Specifications and selection data are subject to change without notice.

RMS Disc Coupling (metric)



RMS Coupling Selection Data

Size	① Nominal Bore Capacity (mm)	④ Max. Continuous Torque Rating (N-m)	⑤ Max. Momentary Torque Rating (N-m)	Maximum Speed (RPM)	⑥ Total Weight (kg)	⑥ Total WR² (kg-m²)	⑥ Half Coupling C.G. (mm)	⑥ Torsional Stiffness K (MN-m/rad)
2103	41	1360	2150	34300	6	0.01	40	0.04
2504	43	2490	3960	33000	8	0.01	43	0.05
3004	51	3390	5420	30800	9	0.02	46	0.08
3304	58	4410	7010	29400	10	0.02	52	0.10
3604	64	5990	9610	26700	12	0.03	58	0.15
4104	72	8590	13700	23700	16	0.05	65	0.19
4304	76	10200	16300	22500	18	0.07	68	0.24
4704	83	13000	20800	20700	22	0.10	72	0.32
5104	90	16600	26600	19100	28	0.15	77	0.40
5504	96	20300	32500	17800	34	0.20	83	0.52
5804	102	24300	38900	16800	40	0.27	87	0.61
6204	110	30300	48400	15600	48	0.38	94	0.80
6504	114	34000	54400	15000	54	0.47	97	0.94
6904	122	41500	66300	14100	66	0.62	102	1.1
7404	130	48000	76800	13200	77	0.85	111	1.4
7904	140	59600	95300	12300	99	1.3	118	1.8
8604	152	75700	121000	11300	123	1.9	125	2.4
9404	165	95100	152500	10400	155	2.7	141	3.2
10104	178	115500	184000	9700	197	4.1	149	4.0
10804	191	143500	229500	9000	238	5.6	158	5.1
11604	204	175000	280000	8400	297	8.2	167	6.2
12404	218	212500	340000	7900	353	10.8	177	7.8

Axial Data

Size	⑦⑧ Maximum Continuous Axial Displacement (mm)	Maximum Force (N)
2103	± 2.05	530
2504	± 1.50	930
3004	± 1.80	1070
3304	± 2.05	1330
3604	± 2.30	1600
4104	± 2.65	2090
4304	± 2.80	2360
4704	± 3.05	2710
5104	± 3.30	3070
5504	± 3.55	3690
5804	± 3.80	4180
6204	± 4.05	4890
6504	± 4.30	5780
6904	± 4.55	6230
7404	± 4.85	7120
7904	± 5.20	8450
8604	± 5.70	9340
9404	± 6.10	10680
10104	± 6.60	12460
10804	± 7.10	15120
11604	± 7.60	16900
12404	± 8.15	19570

RMS Dimensional Data

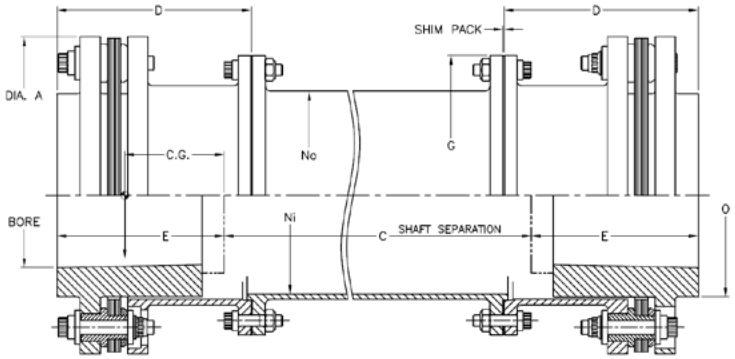
Size	A	D	G	No	Ni	② E Typical	MAXIMUM O	② MINIMUM C
2103	103	102	94	55	49	50	57	198
2504	120	103	103	64	58	53	61	198
3004	129	104	110	74	68	60	71	198
3304	135	106	122	84	78	68	82	198
3604	149	106	130	93	87	75	90	198
4104	167	111	141	104	98	85	101	198
4304	177	114	147	110	104	89	107	198
4704	192	115	160	119	113	96	116	198
5104	208	129	175	129	123	103	126	198
5504	223	145	185	138	131	111	135	198
5804	236	150	197	147	139	116	143	198
6204	254	162	212	158	150	126	154	208
6504	264	165	220	164	156	130	160	211
6904	282	169	235	176	166	138	171	213
7404	301	181	250	187	177	149	182	224
7904	324	190	272	201	191	159	196	234
8604	352	210	293	218	207	171	213	259
9404	381	228	318	237	225	190	231	277
10104	411	240	345	256	242	203	249	287
10804	441	256	368	274	260	216	267	307
11604	472	277	400	294	278	230	286	335
12404	504	299	423	313	297	243	305	368

Angular Data

Size	⑧ Maximum Misalignment (degrees)	Bending Stiffness (N-m/deg)
2103	0.20	17
2504	0.20	54
3004	0.20	66
3304	0.20	77
3604	0.20	97
4104	0.20	130
4304	0.20	149
4704	0.20	181
5104	0.20	215
5504	0.20	254
5804	0.20	299
6204	0.20	367
6504	0.20	412
6904	0.20	503
7404	0.20	610
7904	0.20	760
8604	0.20	970
9404	0.20	1230
10104	0.20	1520
10804	0.20	1850
11604	0.20	2230
12404	0.20	2660

① Based on 1.4 hub O.D./ bore ratio; larger bores are possible, consult Kop-Flex for specific applications.
② Hub length includes nominal retaining nut width. It can be reduced for smaller bores with shorter fit lengths.
③ Minimum shaft separation for typical fit lengths (E) and installation without disturbing connected equipment. Shorter shaft separations are possible, contact Kop-Flex for more details
④ API 671 rating (0.2 degrees misalignment with full axial misalignment capacity).
⑤ Maximum momentary torque rating as defined by API 671 is used to evaluate events such as a generator short circuit. Other non-continuous/dynamic events, such as synchronous motor start-ups, are evaluated independently. For dynamic events, mean and alternating torques and required number of cycles must be provided to complete a fatigue analysis.
⑥ Based on coupling with 457 mm shaft separation and nominal tapered bores for keyless hydraulic shaft connections. Mass elastic data can be optimized to meet specific requirements.
⑦ For transient conditions 133% axial deflection is allowed
⑧ Higher misalignment ratings are possible by re-rating the torque and speed. Consult Kop-Flex.
Specifications and selection data are subject to change without notice.

RZS Disc Coupling (metric)



RZS Coupling Selection Data

Size	① Nominal Bore Capacity (mm)	④ Max. Continuous Torque Rating (N-m)	⑤ Max. Momentary Torque Rating (N-m)	Maximum Speed (RPM)	⑥ Total Weight (kg)	⑥ Total WR² (kg-m²)	⑥ Half Coupling C.G. (mm)	⑥ Torsional Stiffness K (MN-m/rad)
2103	38	1360	2150	34300	5	0.01	28	0.04
2504	43	2490	3960	33000	7	0.01	30	0.06
3004	51	3390	5420	30800	8	0.01	37	0.08
3304	58	4410	7010	29400	10	0.02	42	0.11
3604	64	5990	9610	26700	12	0.03	49	0.15
4104	72	8590	13700	23700	15	0.05	55	0.19
4304	76	10200	16300	22500	17	0.06	57	0.25
4704	83	13000	20800	20700	21	0.09	62	0.33
5104	90	16600	26600	19100	27	0.13	65	0.42
5504	96	20300	32500	17800	32	0.19	71	0.54
5804	102	24300	38900	16800	39	0.24	75	0.63
6204	110	30300	48400	15600	47	0.35	82	0.84
6504	114	34000	54400	15000	54	0.44	85	1.0
6904	122	41500	66300	14100	64	0.59	89	1.2
7404	130	48000	76800	13200	75	0.76	98	1.5
7904	140	59600	95300	12300	97	1.2	103	1.9
8604	152	75700	121000	11300	120	1.7	110	2.5
9404	165	95100	152500	10400	150	2.5	125	3.4
10104	178	115500	184000	9700	190	3.8	131	4.1
10804	191	143500	229500	9000	230	5.3	140	5.3
11604	204	175000	280000	8400	290	7.3	147	6.4
12404	218	212500	340000	7900	340	10.0	156	8.2

Axial Data

Size	⑦⑧ Maximum Continuous Axial Displacement (mm)	Maximum Force (N)
2103	± 2.05	530
2504	± 1.50	930
3004	± 1.80	1070
3304	± 2.05	1330
3604	± 2.30	1600
4104	± 2.65	2090
4304	± 2.80	2360
4704	± 3.05	2710
5104	± 3.30	3070
5504	± 3.55	3690
5804	± 3.80	4180
6204	± 4.05	4890
6504	± 4.30	5780
6904	± 4.55	6230
7404	± 4.85	7120
7904	± 5.20	8450
8604	± 5.70	9340
9404	± 6.10	10680
10104	± 6.60	12460
10804	± 7.10	15120
11604	± 7.60	16900
12404	± 8.15	19570

RZS Dimensional Data

Size	A	D	G	No	Ni	② E Typical	MAXIMUM O	③ MINIMUM C
2103	99	114	94	57	51	48	54	224
2504	115	118	103	64	58	53	61	224
3004	122	115	110	74	68	60	71	224
3304	130	118	122	84	78	68	82	224
3604	142	119	130	93	87	75	90	224
4104	161	125	141	104	98	85	101	224
4304	169	129	147	110	104	89	107	224
4704	182	130	160	119	113	96	116	224
5104	197	146	175	129	123	103	126	224
5504	215	162	185	138	131	111	135	224
5804	226	167	197	147	139	116	143	229
6204	244	180	212	158	150	126	154	244
6504	256	183	220	164	156	130	160	246
6904	271	189	235	176	166	138	171	251
7404	287	201	250	187	177	149	182	264
7904	310	214	272	201	191	159	196	279
8604	336	236	293	218	207	171	213	310
9404	365	255	318	237	225	190	231	330
10104	390	268	345	256	242	203	249	345
10804	423	285	368	274	260	216	267	368
11604	451	311	400	294	278	230	286	404
12404	478	333	423	313	297	243	305	439

Angular Data

Size	⑧ Maximum Misalignment (degrees)	Bending Stiffness (N-m/deg)
2103	0.20	17
2504	0.20	54
3004	0.20	66
3304	0.20	77
3604	0.20	97
4104	0.20	130
4304	0.20	149
4704	0.20	181
5104	0.20	215
5504	0.20	254
5804	0.20	299
6204	0.20	367
6504	0.20	412
6904	0.20	503
7404	0.20	610
7904	0.20	760
8604	0.20	970
9404	0.20	1230
10104	0.20	1520
10804	0.20	1850
11604	0.20	2230
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⑤ Maximum momentary torque rating as defined by API 671 is used to evaluate events such as a generator short circuit. Other non-continuous/dynamic events, such as synchronous motor start-ups, are evaluated independently. For dynamic events, mean and alternating torques and required number of cycles must be provided to complete a fatigue analysis.
⑥ Based on coupling with 457 mm shaft separation and nominal tapered bores for keyless hydraulic shaft connections. Mass elastic data can be optimized to meet specific requirements.
⑦ For transient conditions 133% axial deflection is allowed
⑧ Higher misalignment ratings are possible by re-rating the torque and speed. Consult Kop-Flex.

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