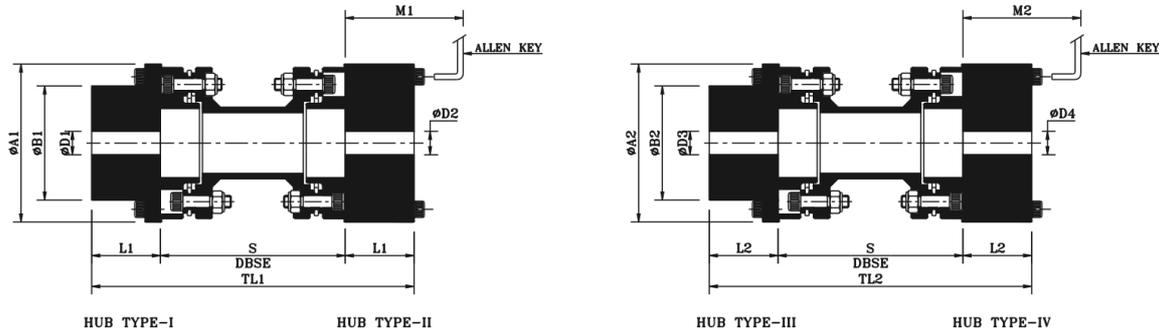


DISC-O-FLEX SPACER COUPLINGS TYPE - REM



TECHNICAL DATA

Coup. Size	kW at 100 rpm	Torque Nm	Max. Speed RPM	Bore													Min. DBSE 'S'	STD DBSE	TL1 (STD DBSE)	TL2 (STD DBSE)	M1	M2	Weight in Kg Approx.		M.I. (MR2) in Kg. m ² Approx		Tors. Stiff. MNm/rad Approx.	
				Min.				Max.				A1	A2	B1	B2	L1							L2	Min. DBSE 'S'	Per Mtr. Extra 'S'	Min. DBSE 'S'		Per Mtr. Extra 'S'
				D1 & D2 (Type I/II)	D3 & D4 (Type I/II)	D1 (Type I)	D2 (Type II)	D3 (Type III)	D4 (Type IV)																			
8	1.00	96	7500	8	10	24	42	38	48	80	69	90	40	55	30	40	100	160, 200, 240	180, 220, 260	80	90	2	1.32	0.0012	0.0002	0.018		
25	2.40	232	7000	10	15	38	48	48	72	89	90	108	55	70	40	45	140, 180	180, 220, 260	190, 230, 270	90	105	4	2.29	0.0039	0.0006	0.043		
65	6.5	618	6000	15	20	48	72	65	92	103	108	135	70	86	45	55	140	230, 270, 340	250, 290, 360	105	120	9	3.19	0.0094	0.0011	0.100		
125	12.6	1204	5200	20	25	65	92	80	102	128	135	152	86	108	55	60	180, 250	250, 290, 360	260, 300, 370	120	125	16	4.74	0.0283	0.0034	0.232		
165	20.0	1912	4800	25	30	80	102	90	120	148	152	182	108	130	60	70	180	300, 370	320, 390	125	135	22	8.38	0.0604	0.0088	0.395		
370	36.3	3463	4400	30	45	90	120	108	140	161	182	197	130	158	70	90	180	320, 390	360, 430	135	155	33	13.08	0.1410	0.0213	0.749		
390	58.5	5583	4200	45	55	108	140	127	155	175	197	225	158	181	90	95	250	360, 430	370, 440	155	160	49	21.72	0.3650	0.0561	1.239		
790	74.2	7084	4000	55	65	127	155	140	178	180	225	250	181	206	95	105	250	370, 440	390, 460	160	170	61	21.72	0.4181	0.0561	1.649		
1025	108.7	10383	3800	65	70	140	178	155	192	194	250	275	206	223	105	115	250	460	480	170	190	83	27.06	0.7067	0.0670	2.179		
1425	152.2	14536	3700	70	75	155	192	170	212	213	275	300	223	248	115	130	250	480	510	190	215	105	42.79	1.1340	0.1666	3.350		
1880	196.0	18714	3600	75	80	170	212	190	255	225	300	375	248	280	130	145	250	510	540	215	245	136	42.79	1.7740	0.1666	4.271		

Notes

- * All dimensions are in mm. Unless otherwise specified.
- * For vertical installation contact RATHI.
- * Non Standard DBSE available on request.
- * Please specify type of hubs (I, II, III, IV combination)
- * Weight, M.I. & stiffness are at max. bores with min. std DBSE with one I/II hub combination.
- * Available for non-sparking applications on request.
- * Min. Bores specified are for hub type I/II, for hub type III/IV consult Rathi.
- * Coupling with taper bush also available on request.
- * Coupling with sizes higher than 1880 available on request.
- * M1 is applicable for hub type II. M2 is applicable for hub type IV.
- * MAX. MIS-ALIGNMENTS ARE AS FOLLOWS
 AXIAL : FOR SIZE 8 TO 370 : ±1MM & FOR SIZE 390 TO 1880 : ±2MM
 ANGULAR / DISC PACK : 0.75°
 RADIAL / PARALLEL : 0.013 MM X DBSE

DISC-O-FLEX COUPLINGS



Disc-O-Flex couplings are fully metallic couplings, consisting of two hubs, one centre spacer member, two sets of stainless steel rivetted element blades bolted together with high tensile bolts. Replacement of rivetted discpack is easy, simple and is possible without disturbing drive or driven equipment.

FEATURES

- High power - to - weight ratio.
- No wearing parts, no lubrication required.
- Easy installation with 'Drop Out' spacer.
- Accommodates angular, parallel and axial misalignments.
- Non stainless steel parts coated with a durable anticorrosive coating.
- High temperature application.
- Visual inspection possible without disassembling equipment from foundation.
- Inherently balanced.
- High torsional rigidity with low axial stiffness.
- Special options including spacer lengths, modified hubs, special materials are available.
- Floating shaft/cooling tower couplings are available.
- Backlash free.
- High speed capability.
- Dynamic balancing to customer specifications.
- Machined to high precision standards.
- Lightweight couplings.

Disc-O-Flex couplings are available in RLM, REM series.

TYPE - RLM

- Rivetted discpack for better performance
- Suitable for power transmission in drives in hazardous areas.

TYPE - REM

- Rivetted discpack for better performance
- Suitable for power transmission in drives in hazardous areas.
- Specially suitable for petrochemical & fertilizer industries.
- **API-610 / API-671 compliance available on request.**
- Coupling with anti-flail spacer.

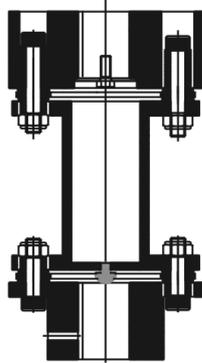
SELECTION PROCEDURE

- 1) Select an appropriate **SERVICE FACTOR** from table given below.
- 2) Multiply the rated running power by the service factor. This gives **DESIGN POWER** at rated speed (rpm). Now convert this to design power at 100 rpm. This is used as a basis for coupling selection.
- 3) Refer to the rating column and read until the power greater than or equal to the design power at 100 rpm is found. The size of the Disc-O-Flex coupling is given in the corresponding first column.
- 4) Select either standard type I or type II hubs to suit shaft sizes.
Select either Type III or Type IV hub in type REM for larger bore sizes.
- 5) Specify the distance between shaft ends (DBSE).

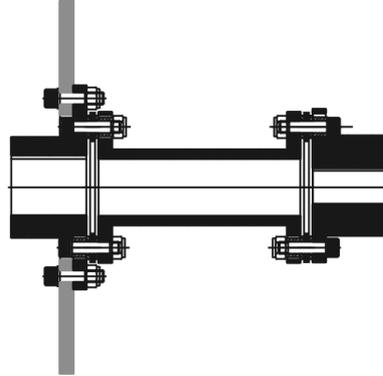
SERVICE FACTORS

Duty	Prime Mover		
	Electric Motor Steam or Gas Turbine	Steam Engine or Water Turbine	Gas or Oil Engine
Constant Torque e.g. centrifugal pumps, compressor, light conveyors, alternators & light fans.	1.0	1.5	3.0
Slight Torque Fluctuations e.g. machine tools, screw compressors, screw pumps, liquid ring compressors & rotary dryers.	1.5	2.0	3.0
Substantial Torque Fluctuations e.g. reciprocating pumps, low viscosity mixers, cranes & winches.	2.0	2.5	4.0
Exceptionally High Torque Fluctuations e.g. rotary presses, reciprocating compressors, high viscosity mixers & marine propellers.	3.0	3.5	5.0

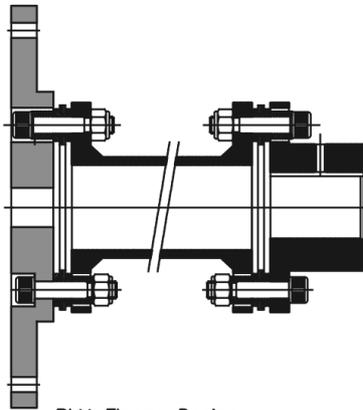
SPECIAL DESIGN VARIANTS DISC COUPLINGS



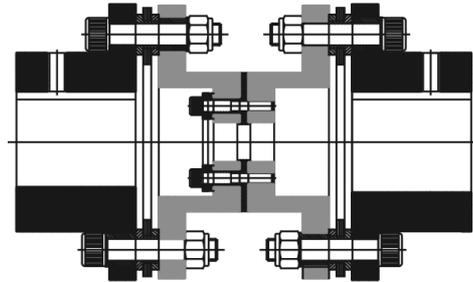
RLM Vertical Design



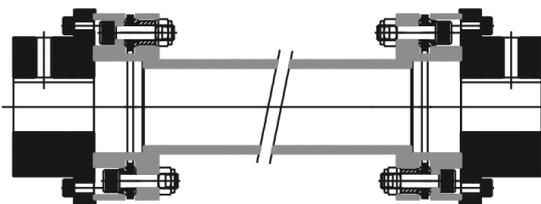
RLM with Brake Disc



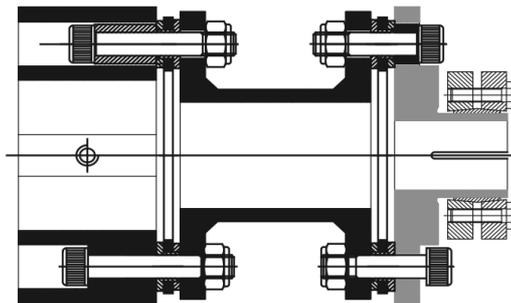
RLM Flange Design



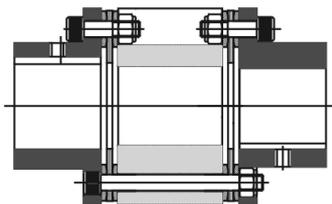
RLM Electrically Insulated



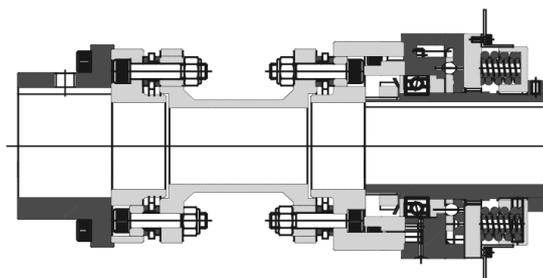
REM Long Spacer Design



RLM Shrink Design



RLMC Design with Special Spacer



Disc Coupling with Torque Limiter