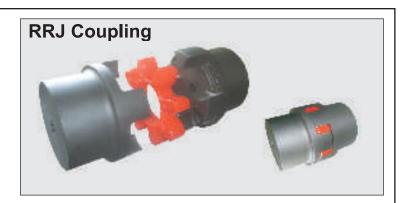
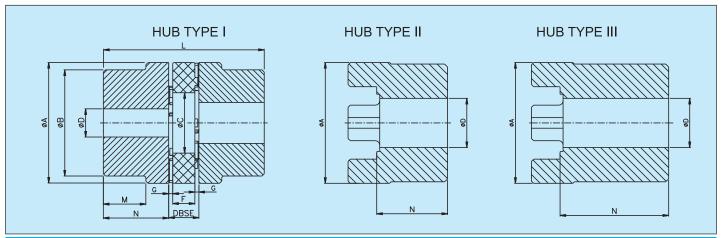
CURVE-Flex COUPLINGS

- Allover machining Inherently balanced
- No Lubrication, Maintenance free Long life
- Compact design, High power to weight ratio
- Fail safe Will perform even if spider fails
- Vibrations Damping, torsionally flexible

KW @ 100 rpm

Axial plug-in, easy to assemble





TECHNICAL DATA

RRJ	- A	lumin	ium	(AL) '
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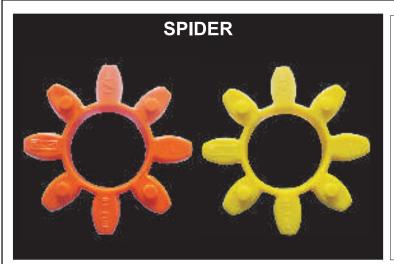
Coupling	Coupling	KW @ I	oo ipiii	iviax.	Finish	Bore - D	Α	В	С	DBSE	F	G		М	N	10/-1-1-4		
Size	Туре	Red	Yellow	Speed rpm	Min.	Max.	A	0	C	min.	Г	G	L	IVI		Weight (Kg.)	M.I. (Kg.m²)	
19	I	0.17	0.10	14000	6	19	41	32	18	16	12	2	66	20	25	0.11	2.3 x 10 ⁻⁵	
	II	0.17	0.10	14000	19	24		41		10				20	20	0.14	4.3 x 10 ⁻⁵	
24	1	0.60	0.35	10600	9	24	56	40	27	18	14	2	78	24	30	0.24	9 x 10 ⁻⁵	
	II	0.00	0.00	10000	22	28		56		.0		_	, 0		- 00	0.34	19 x 10⁻⁵	
28	I	1.60	0.95	8500	10	28	66	48	30	20	15	2.5	90	28	35	0.39	20 x 10 ⁻⁵	
	II	1.00	0.95	0000	28	38		66					- 50	20		0.54	42 x 10⁻⁵	
								RRJ - C	ast Ir	on (CI) *								
	I				12	40		66					114	37	45	2.0	1.85 x 10 ³	
38	II	3.25	1.90	7100	38	48	80	78	38	24	18	3				2.4	2.45 x 10 ³	
	III				12	48		70					164	62	70	3.6	3.72 x 10 ⁻³	
	- 1				14	45		75					126	40	50	3.2	4.1 x 10 ⁻³	
42	II	4.50	2.65	6000	42	55	95	94	46	46 26	20	3				3.8	5.90 x 10 ³	
	III				14	55		94					176	65	75	5.5	8.54 x 10 ³	
			3.10 560		15 52		85					140	45	56	4.4	6.2 x 10 ⁻³		
48	II	5.25		5600	48	62	105		104	51	28	21	3.5				5.2	9.6 x 10 ⁻³
	III				15	62							188	69	80	4.2	13.4 x 10 ⁻³	
	I				20	60		98					160	52	65	6.6	12.3 x 10 ³	
55	II	6.85	4.10	4750	55	74	120	118	60	30	22	4				7.5	17.3 x 10 ⁻³	
	III				20	74		110					210	77	90	10.2	23.7 x 10 ⁻³	
	I				22	70		115					185	61	75	10.1	24.5 x 10 ⁻³	
65	II	9.40	6.25	4250	65	80	135	133	68	35	26	4.5				11.5	27.8 x 10 ⁻³	
	III				22	80		100					235	86	100	15.0	36.3 x 10 ⁻³	
	1				30	80		135					210	69	85	16.0	54 x 10 ⁻³	
75	II	19.20	12.80	3550	75	95	160	158		80	40	30	30 5			00	18.2	61.4 x 10 ⁻³
	III				30	95		100					260	84	110	21.2	71.5 x 10 ⁻³	
					40	97		160					245	81	100	27.5	138 x 10 ⁻³	
90	II	36	24	2800	90	110	200	198	100	45	34	5.5				36.3	182 x 10 ⁻³	
	III				40	110							295	106	125	44.8	225 x 10 ⁻³	

[#] Weight & Moment of Inertia (M.I.) of coupling assembly refer to maximum finish bore without keyway.

^{*} Alternative hub material available on request - Steel (Sizes 19 to 90) , S. G. Iron (Sizes 38 to 90).



CURVE-Flex COUPLINGS



TECHNICAL DATA - Polyurethane Spiders								
	Red	(Std.)	Yel	low				
Spider Size	Tnom (Nm)	T _{max} (Nm)	Tnom (Nm)	T _{max} (Nm)				
19	17	34	10	20				
24	60	120	35	70				
28	160	320	95	190				
38	325	650	190	380				
42	450	900	265	530				
48	525	1050	310	620				
55	685	1370	410	820				
65	940	1880	625	1250				
75	1920	3840	1280	2560				
90	3600	7200	2400	4800				
Hardness	95 Shore A 92 Shore A							
Temperature	perature - 40°C to 90°C							

Selection Procedure:

- 1. Determine Application Nominal Torque (Nm) Tnom (Nm) = (kw x 9550/rpm)
- 2. Calculate application service factor using following charts Total service factor (SF) will be SF = SF1 x SF2 x SF3
- 3. Calculate Application Maximum Torque (Tmax)
 Tmax = Tnom X SF (Nm)
- 4. Select the proper spider showing Tnom greater than application nominal torque. Then select spider showing Tmax greater than application maximum torque. Select the higher of two.
- 5. Ensure that application rpm and max. bore requirements are less than or equal to selected coupling max. rpm and max. bore size otherwise select next size coupling.

For SF1, SF2, SF3 refer chart.

SF1 - Application Service Factor Prime Motor									
Driven Machine / Example	Electric Motors	4 Cylinder or more	Less than 4 Cylinder						
a. Uniform operation, no shocks.	1.5	2.0	2,5						
b. Irregular operation, light shocks.	2.0	2.5	3.0						
C. Irregular operation, medium shocks.	2.5	3.0	3.5						
D. Irregular operation, heavy shocks.	3.0	3.5	4.0						

SF2 - Application Service Factor for Temperature								
Temperature Range °C	< 30°C	30°C - 70°C	> 70°C					
SF2	1.0	1.5	2.0					

SF3 - Application Service Factor for starting frequency								
Starting frequency cycles / hour	< 100	100 - 500	> 500					
SF3	1.0	1.5	2.0					

MISALIGNMENT DATA										
Size	19	24	28	38	42	48	55	65	75	90
Maximum axial displacement (mm)	1.6	1.8	2.0	2.2	2.3	3.0	3.0	3.5	3.5	4.5
Maximum radial misalignment (mm)	0.15	0.20	0.20	0.25	0.30	0.35	0.35	0.40	0.45	0.50
Maximum angular misalignment (Deg.)	0.80	0.80	0.80	0.90	0.90	1.0	1.0	1.0	1.1	1.1

ORDER SEQUENCE	Coupling	Hub Type	Finish Bore	Spider	Hub
	Size	(Driver / Driven)	(Driver / Driven)	Type	Material
Example	RRJ-55	1 / 11	40 / 60	Red	CI

- Coupling with std. Spider is supplied if not specified.
- All dimensions are in mm unless otherwise specified.
- For vertical installation contact RATHI.

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Rathi Transpower Pvt Ltd

Rathi Chambers, 7, Deccan College Road, Pune 411 006.(INDIA)

Pune 411 006.(INDIA) Phone : 91-20-30517201 Fax : 91-20-30517212

E-mail : enquiry@rathigroup.com Website : www.rathicouplings.com Distributor