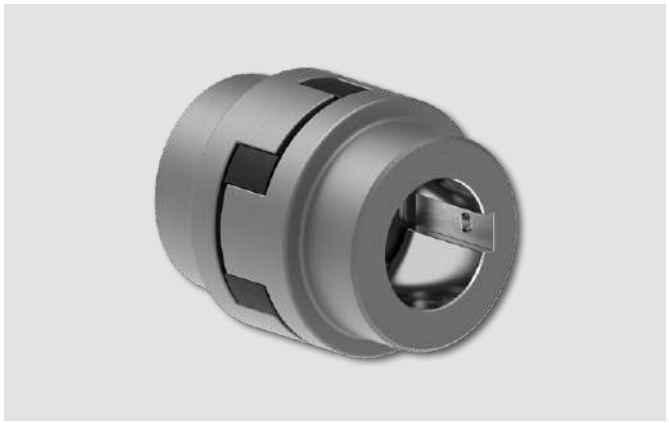
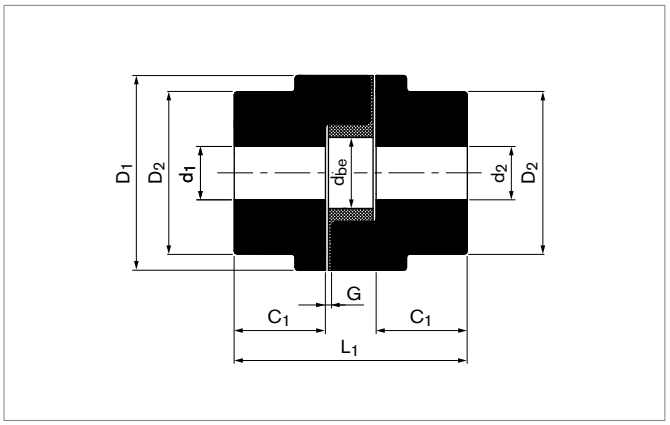
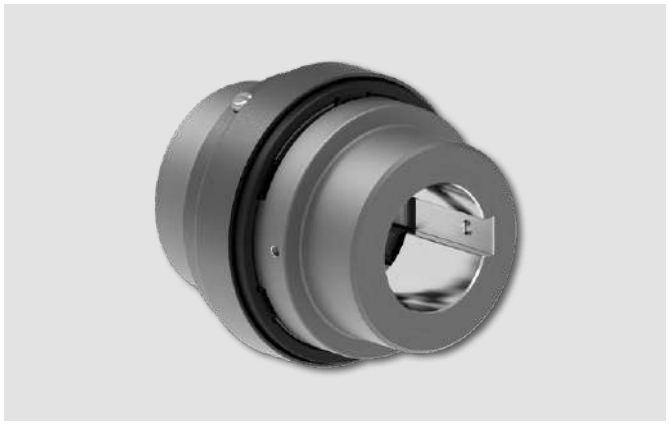
Elastomer Jaw Couplings
LOVEJOY INDIA® RLES L, SW & RRS

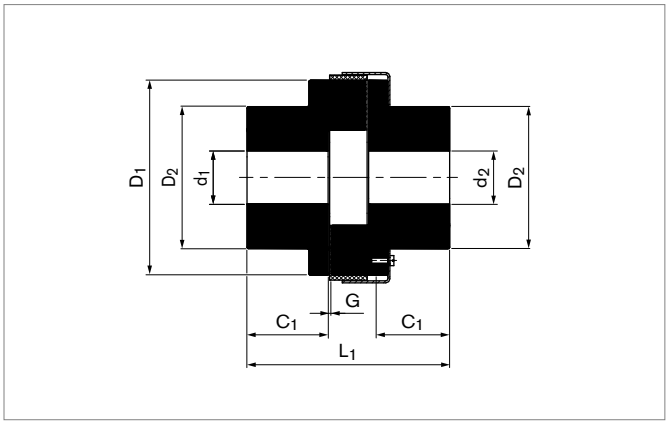
RLES L: 2-Part Type with Elastomer Spider



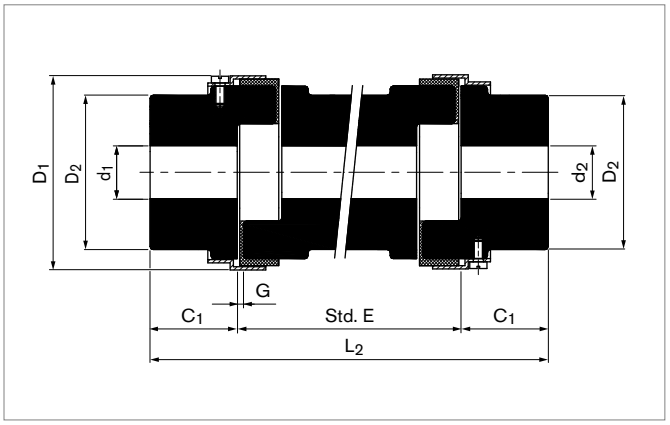


RLES SW: 2-Part Type with Radially Removable Intermediate Ring





RLES RRS: 3-Part Type with Intermediate Shaft and Radially Removable Intermediate Ring



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Elastomer Jaw Couplings LOVEJOY INDIA® RLES L, SW & RRS

RLES L										
Size	T_{KN}			n_{max}	Pilot Bore Size	d_1/d_2	D_1	D_2	C_1	L_1
	Nitrile Butadiene Rubber (NBR)	Polyurethane (PU)	H-Trans (HTR)							
RLES L	Nm	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm
35	0.38	-	-	31000	-	10	16	16	6.5	21
50	2.80	4.2	7.0	18000	-	16	27	27	15	42
70	4.90	7.4	12.3	14000	-	20	35	35	19	51
75 (1)	9.80	14.7	24.5	11000	-	22	45	45	21	55
75 (2)	9.80	14.7	24.5	11000	-	22	45	39	21	55
95	21.10	31.7	52.8	9000	-	28	54	49	25	63
99	46.40	69.6	116	7000	-	30	65	51	27	72
100	46.40	69.6	116	7000	-	35	65	57	35	88
110	89	133.5	222.5	5000	-	42	85	76	43	108
150	141	211.5	352.5	5000	-	48	96	80	45	115
190	190	285	475	5000	-	60	115	102	54	133
225	265	397.5	662.5	4200	-	65	127	111	64	153
226	327	490.5	817.5	4800	25	70	137	119	70	178
276	532	798	-	1800	25	75	157	127	80	200
280	782	1173	-	-	30	80	192	140	80	200
295	1279	1918.5	-	-	30	95	237	162	95	238

RLES L								
Size	G	d_{be}	Sintered Iron (SIN)		Aluminum (AL)		Cast Iron (CIN)	
			Gw	J	Gw	J	Gw	J
RLES L	mm	mm	kg	kg·m²	kg	kg·m²	kg	kg·m²
35	1	-	0.02	0.74×10^{-6}	-	-	-	-
50	1	-	0.11	1.28×10^{-5}	0.04	0.48×10^{-5}	-	-
70	2	-	0.23	4.65×10^{-5}	0.08	1.67×10^{-5}	-	-
75 (1)	2	-	0.44	13.69×10^{-5}	0.14	3.78×10^{-5}	-	-
75 (2)	2	-	0.44	13.69×10^{-5}	0.14	3.78×10^{-5}	-	-
95	2	19	-	-	0.24	10.58×10^{-5}	0.65	2.86×10^{-4}
99	2	27	-	-	0.38	22.21×10^{-5}	1.01	5.99×10^{-4}
100	2	27	-	-	0.44	27.81×10^{-5}	1.14	7.19×10^{-4}
110	3	35	-	-	1.01	104.47×10^{-5}	2.62	27.24×10^{-4}
150	3	35	-	-	-	-	3.20	41.50×10^{-4}
190	3	45	-	-	-	-	5.63	108.85×10^{-4}
225	3	45	-	-	-	-	7.73	176.74×10^{-4}
226	3	51	-	-	-	-	10.22	274.80×10^{-4}
276	3	60	-	-	-	-	14.48	470.08×10^{-4}
280	3	70	-	-	-	-	20.56	921.92×10^{-4}
295	3	80	-	-	-	-	35.75	2395.72×10^{-4}

(1) Values for hub material Sintered Iron (SIN)

(2) Values for hub material Aluminum (AL)

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Elastomer Jaw Couplings LOVEJOY INDIA® RLES L, SW & RRS

RLES SW													
Size	T_{KN}			n_{max}	Pilot Bore Size	d_1/d_2	D_1	D_2	C_1	L_1	G	Gw	J
	Nitrile Butadiene Rubber (NBR)	Polyurethane (PU)	H-Trans (HTR)										
RLES SW	Nm	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	kg	kg·m²
95	21.10	31.7	52.8	-	-	28	65	49	25	63	2	0.69	3.37×10^{-4}
99	46.40	69.6	116	-	-	30	78	51	27	72	2	1.05	6.96×10^{-4}
100	46.40	69.6	116	-	-	35	78	57	35	88	2	1.23	8.51×10^{-4}
110	89	133.5	222.5	-	-	42	96	76	43	108	3	2.74	30.10×10^{-4}
150	141	211.5	352.5	-	-	48	111	80	45	115	3	3.39	47.13×10^{-4}
190	190	285	475	-	-	60	129	102	54	133	3	5.87	118.41×10^{-4}
225	265	397.5	662.5	-	-	65	142	111	64	153	3	7.97	189.66×10^{-4}
226	327	490.5	817.5	-	25	70	153	119	70	178	3	10.66	300.83×10^{-4}
276	532	798	-	-	25	75	173	127	80	200	3	15.04	513.00×10^{-4}
280	782	1173	-	-	30	80	208	140	80	200	3	21.29	1002.88×10^{-4}
295	1279	1918.5	-	-	30	95	253	162	95	238	3	36.98	2609.33×10^{-4}
2955	2132	3198	-	-	30	105	253	180	108	264	3	42.04	3028.77×10^{-4}
300	3047	4570.5	-	-	30	105	272	180	115	283	3	49.40	3999.87×10^{-4}
350	4308	6462	-	-	30	115	323	200	128	309	3	74.56	8229.27×10^{-4}

RLES RRS											
Size	T_{KN}			n_{max}	Pilot Bore Size	d_1/d_2	D_1	D_2	C_1	Std. E	L_1
	Nitrile Butadiene Rubber (NBR)	Polyurethane (PU)	H-Trans (HTR)								
RLES RRS	Nm	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm
95	21.10	31.7	52.8	3600	-	28	65	49	25	90	63
100	46.40	69.6	116	3600	-	35	78	57	35	100	88
110	89	133.5	222.5	3600	-	42	96	76	43	140	108
150	141	211.5	352.5	3600	-	48	111	80	45	90	115
190	190	285	475	3600	-	60	129	102	54	100	133
225	265	397.5	662.5	-	-	65	142	111	64	140	153
226	327	490.5	817.5	-	25	70	153	119	70	180	178

RLES RRS									
Size	G	E = 90		E = 100		E = 140		E = 180	
		Gw	J	Gw	J	Gw	J	Gw	J
RLES RRS	mm	kg	kg·m²	kg	kg·m²	kg	kg·m²	kg	kg·m²
95	2	1,15	5.35×10^{-4}	1,19	5.49×10^{-4}	1,33	6.04×10^{-4}	-	-
100	2	1,12	8.44×10^{-4}	1,16	8.68×10^{-4}	1,33	9.62×10^{-4}	-	-
110	3	3,52	39.87×10^{-4}	3,60	40.67×10^{-4}	3,95	43.89×10^{-4}	4,29	47.11×10^{-4}
150	3	4,36	63.42×10^{-4}	4,45	64.38×10^{-4}	4,79	68.17×10^{-4}	5,14	71.96×10^{-4}
190	3	7,29	151.42×10^{-4}	7,45	154.06×10^{-4}	8,07	164.61×10^{-4}	8,70	175.15×10^{-4}
225	3	9,68	236.67×10^{-4}	9,86	240.04×10^{-4}	10,60	253.55×10^{-4}	11,33	267.05×10^{-4}
226	3	12,32	363.33×10^{-4}	12,63	372.21×10^{-4}	13,40	391.65×10^{-4}	14,11	407.71×10^{-4}

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Possible Hub Materials RLES							
	L			SW		RRS	
Size	Sintered Iron (SIN)	Aluminum (AL)	Cast Iron (CIR)	Aluminum (AL)	Cast Iron (CIR)	Aluminum (AL)	Cast Iron (CIR)
35	●	-	-	-	-	-	-
50	●	●	-	-	-	-	-
70	●	●	-	-	-	-	-
75	●	●	-	-	-	-	-
95	-	●	●	●	●	●	●
99	-	●	●	●	●	-	-
100	-	●	●	●	●	●	●
110	-	●	●	●	●	●	●
150	-	-	●	-	●	-	●
190	-	-	●	-	●	-	●
225	-	-	●	-	●	-	●
226	-	-	●	-	●	-	●
276	-	-	●	-	●	-	-
280	-	-	●	-	●	-	-
295	-	-	●	-	●	-	-
2955	-	-	-	-	●	-	-
300	-	-	-	-	●	-	-
350	-	-	-	-	●	-	-

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Explanations

T_{KN}	= Nom. Transmissible Torque	**D_1**	= Max. Outer Diameter	**G**	= Width of Gap Between Left and Right Component
N_{max}	= Max. Rotational Speed	**D_2**	= Outer Diameter Hubs	**D_{be}**	= Inner Diameter Elastomer Spider
Pilot Bore Size	= Required Size of Pilot Bore	**C_1**	= Guided Length in Hub Bore	**Gw**	= Approx. Weight
d_1/d_2	= Max. Bore Diameter Hubs	**Std. E**	= Std. Distance between Shaft Ends	**J**	= Approx. Moment of Intertia
		L_1/L_2	= Total Length		

Technical Information

- All dimensions are in millimeters, unless otherwise specified. Decimal points are used as decimal separators.
- For vertical installation, please contact RINGFEDER POWER TRANSMISSION.
- For RRS/SW maintain gap G for installation.
- Maximum bores can be increased in case of steel hubs. Please contact RINGFEDER POWER TRANSMISSION.
- Dimension L_2 to be calculated by: 2 x C_1 + Std. E.
- Weight Gw und moment of intertia J are given at maximum bore diameter.
- For max. permissible axial, angular and radial shaft misalignment, please contact RINGFEDER POWER TRANSMISSION.

Ordering example RLES L

Series	Type	Size	Hub Material	Elastomer Material	Bore Diameter d_1	Bore Tolerance of d_1	Bore Diameter d_2	Bore Tolerance of d_2
RLES	L	110	AL	PU	35	H7	40	H7

Ordering example RLES SW

Series	Type	Size	Hub Material	Elastomer Material	Bore Diameter d_1	Bore Tolerance of d_1	Bore Diameter d_2	Bore Tolerance of d_2
RLES	SW	300	CIR	HTR	85	H7	100	H7

Ordering example RLES RRS

Series	Type	Size	Hub Material	Elastomer Material	Distance Between Shaft Ends E	Bore Diameter d_1	Bore Tolerance of d_1	Bore Diameter d_2	Bore Tolerance of d_2
RLES	RRS	190	CIR	NBR	100	50	H7	60	H7

Ordering Information

- Elastomer materials: Nitrile Butadiene Rubber (NBR), Polyurethane (PU), H-Trans (HTR).
- Hub materials: Sintered Iron (SIN), Aluminum (AL), Cast Iron (CIR).
- Without further specifications, we deliver as standard: Bore tolerance H7; Keyway acc. to DIN 6885-1; Keyway width tolerance JS9; Set screw per hub. For bores complying with AGMA or other specifications, please contact RINGFEDER POWER TRANSMISSION.