

Lovejoy B-FLEX couplings consist of a set of resilient BARREL shaped bushes with pins & nuts and two flanged hubs of graded cast iron.

These special BARREL shaped bushes permit the MISALIGNMENT IN ALL DIRECTIONS and give extra torsional flexibility as compared to plain bushes. These couplings are suitable for general engineering application requiring reliable power transmission even under conditions of shaft misalignments which are often unavoidable.

## FEATURES

### **SIMPLICITY OF CONSTRUCTION**

Easy to assemble & disassemble. Suitable for independent running of the drive.

### **VARYING STIFFNESS CHARACTERISTICS**

Special barrel shaped bushes provide progressively increasing stiffness characteristics, hence ensure effective shocks & vibration absorption.

### **NO LUBRICATION**

B-FLEX couplings never require lubrication of any kind.

### **SIMPLE / EASY MAINTENANCE**

No complicated mechanism to demand adjustment or maintenance. Inspection and replacement of bushes is easy and bushes can be quickly fitted without dismantling or moving either of coupled shafts.

### **LOW OPERATIONAL COST**

Only wearing part is low cost bushes which make coupling economical in long run.

### **SMOOTH & QUIET OPERATION**

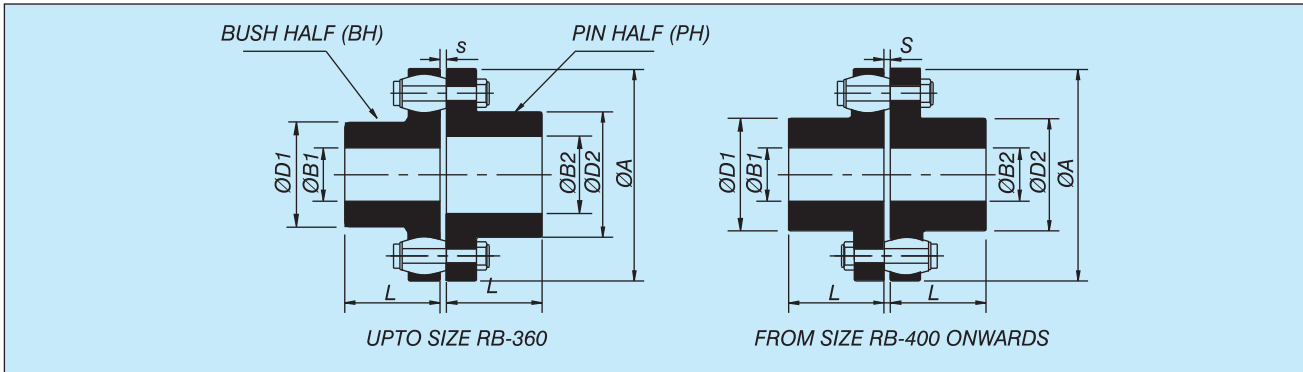
Reduces vibration & noise arising from severe torque fluctuations.



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Distributor



### TECHNICAL DATA

Coupling Size	kW at 100 RPM	Torque Nm	Max. Speed rpm	Min. Bore	Max. Bore		ØA	ØD1	ØD2	L	S	Wt. in kg.	M.I.(WR <sup>2</sup> ) in kgm	Max. Misalignment (±)		
					ØB1	ØB2								Axial (mm)	Radial (mm)	Angular
RB-105-3	1.0	95	7200	11	30	32	105	48	50	45	2-6	2	0.0030	2	0.3	1°
RB-116-4	1.5	146	6100	12	39	42	116	60	68	45	2-6	2.6	0.0050	2	0.3	1°
RB-125-4	1.7	166	5500	14	45	50	125	68	78	50	2-6	3.1	0.0070	2	0.4	1°
RB-144-6	3.3	318	4900	18	50	60	144	82	91	55	2-6	4.3	0.012	2	0.4	1°
RB-162-6	5.5	525	4500	22	60	65	162	89	100	60	2-6	7.5	0.030	2	0.4	1°
RB-178-6	6.7	643	3800	24	70	75	178	105	115	70	2-6	10	0.040	2	0.5	1°
RB-198-10	13	1248	3400	28	80	90	198	124	135	80	2-6	13	0.062	2	0.5	1°
RB-228-11	21	2050	3000	28	90	100	228	133	146	90	4-10	18	0.100	3	0.6	1°
RB-252-12	32	3069	2700	38	105	115	252	156	167	100	4-10	24	0.17	3	0.6	1°
RB-285-11	48	4552	2400	48	115	125	285	170	186	110	4-10	35	0.31	3	0.7	1°
RB-320-12	64	6099	2100	55	125	135	320	196	212	125	4-10	51	0.53	3	0.7	1°
RB-360-11	93	8900	1900	65	135	150	360	212	232	140	4-12	73	1.02	4	0.9	1°
RB-400-10	126	12051	1700	75	160	160	410	230	230	160	4-12	101	1.70	4	1.1	1°
RB-450-12	195	18602	1500	85	180	180	450	260	260	180	4-12	137	2.90	4	1.1	0.5°
RB-500-14	270	25802	1350	95	200	200	500	290	290	200	4-12	180	4.70	4	1.1	0.4°
RB-560-10	325	31003	1200	95	225	225	560	320	320	220	4-8	278	10.70	2	1.5	0.3°
RB-630-12	440	41998	1050	100	250	250	630	355	355	240	4-8	365	17.4	2	1.5	0.3°
RB-710-12	785	75000	950	100	260	260	710	385	385	260	5-9	516	33	2	1.8	0.3°
RB-800-14	1047	100000	850	100	280	280	800	420	420	290	5-9	691	53	2	1.8	0.3°
RB-900-16	1623	154998	750	100	305	305	900	465	465	320	5-9	927	86	2	1.8	0.3°
RB-1000-18	2042	194997	680	125	320	320	1000	515	515	350	5-10	1224	142.8	2	2	0.1°
RB1120-18	2827	269997	600	135	350	350	1120	560	560	380	6-11	1584	231	2	2.2	0.1°
RB-1250-20	3613	344997	550	150	380	380	1250	610	610	420	6-11	2070	367.5	2	2.4	0.1°
RB-1400-20	5550	529999	490	175	440	440	1400	700	700	480	6-12	3060	693	2	2.7	0.1°
RB-1600-24	7854	749995	430	200	480	480	1600	770	770	540	6-12	3960	1155	2	3	0.1°
RB-1800-22	10210	974996	380	225	540	540	1800	870	870	600	8-16	5760	2205	2	3.4	0.1°
RB-2000-26	13614	1299997	340	250	600	600	2000	960	960	660	8-16	7020	3255	2	3.8	0.1°

- PH = Pin Half (Drive) upto size 360
- BH = Bush Half (Driven) upto size 360

### SPARE PARTS

Coupling SIZE	Pin Half Part No.	Bush Half Part No.	Pin + Washer Part No.	Bush Part No.	No. Of Pin-Bush Assy./Coupling	Nut Size
RB-105-3	RB-105-3/1	RB-105-3/2	RB/P-2	RB/B-2	3	M8
RB-116-4	RB-116-4/1	RB-116-4/2	RB/P-2	RB/B-2	4	M8
RB-125-4	RB-125-4/1	RB-125-4/2	RB/P-2	RB/B-2	4	M8
RB-144-6	RB-144-6/1	RB-144-6/2	RB/P-2	RB/B-2	6	M8
RB-162-6	RB-162-6/1	RB-162-6/2	RB/P-3	RB/B-3	6	M10
RB-178-6	RB-178-6/1	RB-178-6/2	RB/P-3	RB/B-3	6	M10
RB-198-10	RB-198-10/1	RB-198-10/2	RB/P-3	RB/B-3	10	M10
RB-228-11	RB-228-11/1	RB-228-11/2	RB/P-4	RB/B-4	11	M14
RB-252-12	RB-252-12/1	RB-252-12/2	RB/P-4	RB/B-4	12	M14
RB-285-11	RB-285-11/1	RB-285-11/2	RB/P-5	RB/B-5	11	M16
RB-320-12	RB-320-12/1	RB-320-12/2	RB/P-5	RB/B-5	12	M16
RB-360-11	RB-360-11/1	RB-360-11/2	RB/P-6	RB/B-6	11	M20
RB-400-10		RB-400-10	RB/P-7	RB/B-7	10	M20
RB-450-12		RB-450-12	RB/P-7	RB/B-7	12	M20
RB-500-14		RB-500-14	RB/P-7	RB/B-7	14	M20
RB-560-10		RB-560-10	RB/P-8	RB/B-8	10	M36
RB-630-12		RB-630-12	RB/P-8	RB/B-8	12	M36
RB-710-12		RB-710-12	RB/P-9	RB/B-9	12	M42
RB-800-14		RB-800-14	RB/P-9	RB/B-9	14	M42
RB-900-16		RB-900-16	RB/P-9	RB/B-9	16	M42

**NOTES** - \* All dimensions are in mm. Unless otherwise specified.

\* Weight & inertia figures are at maximum bores.

\* Each coupling is capable of withstanding maximum torque of 3 times of nominal torque for short durations such as during start up.

\* For vertical installation contact RATHI.

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