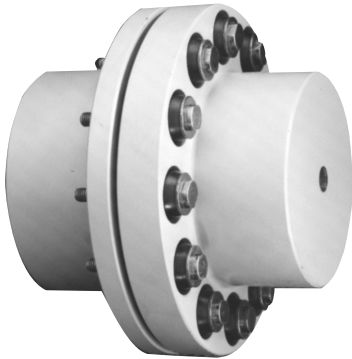




Lovejoy B-FLEX couplings consist of a set of resilient BARREL shaped bushes with pins & nuts and two flanged hubs of graded cast iron.

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**

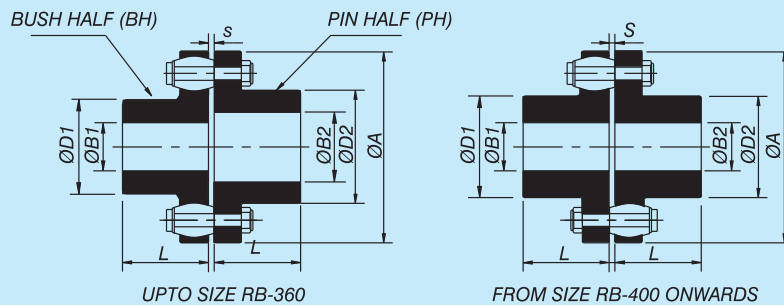
Reduces vibration & noise arising from severe torque fluctuations.



### **Rathi Transpower Pvt Ltd**

Rathi Chambers, 7, Deccan College Road,  
Pune 411 006.(INDIA)  
Phone : 91-20-30517201  
Fax : 91-20-30517212  
E-mail : enquiry@rathigroup.com  
Website : www.rathicouplings.com

### **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.J./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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