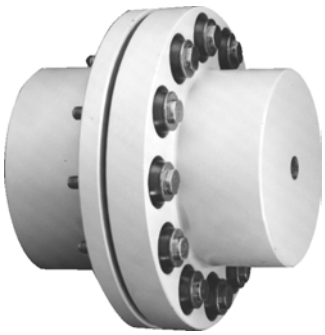
B-FLEX COUPLING PRODUCT MANUAL

OCT-2005 EDITION



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R-PM-B-01/00-10/05

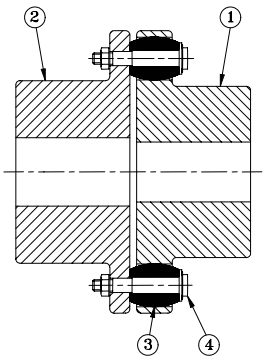
FEATURES OF B-FLEX COUPLING

- Simplicity of construction
- Varying stiffness characteristics
- No lubrication
- Simple or easy maintenance
- Low operational cost
- Smooth & quite operation
- All metal parts are coated with Anti corrosive agent.

AT A GLANCE

- SIZES: 22 sizes (RB-105-3 to RB-900-16)
- POWER RATING: 1 kW to 1623 kW @ 100 RPM
  (1.33 HP to 2176 HP @ 100 RPM)
- MAX. BORE RANGE: 32 mm. to 305 mm.
- MISALIGNMENTS :
  a) Axial ±1.5 mm. to ±4 mm.
  b) Parallel - ±0.2 mm. to ±1.8 mm.
  c) Angular - ±0.3° to ±1°

COMPONENTS OF B-FLEX COUPLING



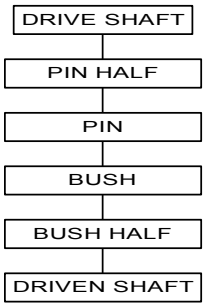
B-FLEX coupling consists of following main parts.

1. Bush half
2. Pin half
3. Bush
4. Pin

The above construction is used for sizes from RB-105-3 to RB-360-11.
For sizes from RB-400-10 to RB-900-16 the bushes are used on either of the hubs for alternative pin bushes.

HOW B-FLEX COUPLING WORKS

B-FLEX coupling consists of four components viz. bush half, pin half, pin & bush.
Torque is transmitted from driver shaft to driven shaft as per above order.



STANDARD MATERIAL OF CONSTRUCTION

COMPONENT	MATERIAL
Bush Half	C.I. IBS 1452-61 Gr. 12
Pin Half	C.I. IBS 1452-61 Gr. 12
Pin	Carbon Steel BS-970
Bush	Natural Rubber
Hex Nut	BS-1083, 1768

VARYING TORSIONAL STIFFNESS

An exclusive feature of B-FLEX coupling

B-FLEX coupling consists of a set of resilient BARREL shaped bushes. These bushes provide varying torsional stiffness characteristics.
Torsional stiffness is the property of flexible coupling which enables the coupling to absorb shocks & vibrations.
If torsional stiffness of a coupling varies according to loading level, coupling can give better performance in shock & vibration absorption.
Due to its peculiar barrel shape bushes , at light loads, torque is transmitted through line of contact of mating parts giving less torsional stiffness.
As load goes on increasing area of contact also increases, hence coupling gives more torsional stiffness.
Thus varying torsional stiffness is achieved in B-FLEX coupling.

APPLICATIONS OF B-FLEX COUPLING

B-FLEX coupling is suitable for general engineering application requiring reliable power transmission, even under conditions of shaft misalignments, which are often unavoidable.

Applications of B-FLEX coupling can be classified according to intensity of load i.e. light, medium & heavy.

- LIGHT
  - Agitators, Centrifugal Blowers, Centrifugal Fans & Pumps, Generators
- MEDIUM
  - Crane Hoists, Machine Tools, Rotary Mills, Centrifugal Compressors, Oil Industry
  - Gear Pumps
- HEAVY
  - Reciprocating Conveyors, Crushers, Metal Mills ,Reciprocating Compressors, Cooling . . Tower Fans, Reciprocating Pumps

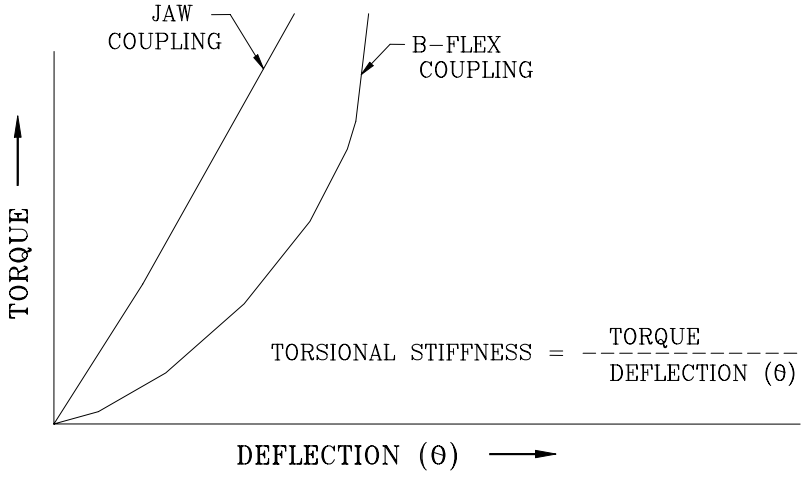
TORSIONAL STIFFNESS FOR STANDARD B-FLEX COUPLING

COUPLING SIZE	# TORSIONAL STIFFNESS (Nm/degree)
RB-105 – 3	25.9
RB-116 – 4	56.3
RB-125 – 4	79
RB-144 – 6	146
RB-178 – 6	266
RB-198 – 10	443
RB-228 – 11	637
RB-252 – 12	1077
RB-285 – 11	1112
RB-320 – 12	1664
RB-360 – 11	2416
RB-400 – 10	3010
RB-450 – 12	5238
RB-500 – 14	8084
RB-560 – 10	9918
RB-630 – 12	15056
RB-710 – 12	25616
RB-800 – 14	38019
RB-900 – 16	65984

At Rated Torque.

Comparison of Torsional Stiffness Characteristics for B-FLEX & JAW Coupling

As torsional stiffness of B-FLEX coupling is varying in nature at different torque transmission values it gives better performance for shock & vibration absorption. Hence results in smooth power transmission.



RATING FOR STANDARD B-FLEX COUPLINGS

Sr. No.	Coupling Size	Rated Torque			Rated Power			
		Nm	kgm	lbs-in.	@100 rpm		@1500 rpm	
					kW	HP	kW	HP
1	RB-105 - 3	95.5	9.74	758	1	1.3	15	20
2	RB-116 - 4	146	14.9	1293	1.5	2	23	31
3	RB-125 - 4	165	16.8	1458	1.7	2.3	26	35
4	RB-144 - 6	318	32.4	2812	3.3	4.5	50	67
5	RB-162 - 6	525	53.5	4643	5.5	7.4	82.5	111
6	RB-178 - 6	643	65.6	5694	6.7	9	101	135
7	RB-198 - 10	1247	127	11023	13	17.5	196	263
8	RB-228 - 11	2050	209	18143	21.4	28.8	322	432
9	RB-252 - 12	3070	313	27170	32.1	43	482	646
10	RB-285 - 11	4552	464	40285	47.6	64	715	960
11	RB-320 - 12	6100	622	53985	63.8	86	958	1285
12	RB-360 - 11	8900	907	78765	93.2	125	1398	1875
13	RB-400 - 10	12051	1228	106651	126.2	169	1893	2538
14	RB-450 - 12	18602	1896	164628	195	261	2922	3917
15	RB-500 - 14	25802	2630	228348	270	362	4053	5433
16	RB-560 - 10	31003	3160	274377	325	435	4870	6529
17	RB-630 - 12	42000	4281	371700	440	590	6597	8844
18	RB-710 - 12	75000	7645	663750	785	1052	11781	15793
19	RB-800 - 14	100000	10194	885000	1047	1403	15708	21057
20	RB-900 - 16	155000	15800	1371750	1623	2175	24347	32637

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

WEIGHT & MI FOR B-FLEX COUPLING

COUPLING SIZE	Wt. kg	MI in kgm^2 Approx.	
		WR^2	GD^2
RB-105 – 3	2	0.003	0.012
RB-116 – 4	2.3	0.0048	0.0192
RB-125 – 4	3.1	0.0069	0.0276
RB-144 – 6	4.3	0.012	0.048
RB-162 – 6	6.3	0.03	0.012
RB-178 – 6	8.6	0.04	0.016
RB-198 – 10	12	0.062	0.248
RB-228 – 11	18	0.10	0.4
RB-252 – 12	24	0.17	0.68
RB-285 – 11	35	0.31	1.24
RB-320 – 12	51	0.53	2.12
RB-360 – 11	73	1.02	4.08
RB-400 – 10	101	1.7	6.8
RB-450 – 12	137	2.9	11.6
RB-500 – 14	180	4.7	18.8
RB-560 – 10	278	10.7	42.8
RB-630 – 12	365	17.4	69.6
RB-710 – 12	516	33.0	132
RB-800 – 14	691	53.0	212
RB-900 – 16	927	86.0	344

Note : Weight & MI are at maximum Bores.

Basic Size (mm.)		H7	Js9	For
Above	Upto & including	For Bore (mm.)	For Keyway Width (mm.)	Keyway Depth (mm.)
3	6	+ 0.012/00	± 0.015	+ 0.1/0
6	10	+ 0.015/00	± 0.018	
10	18	+ 0.018/00	± 0.021	
18	30	+ 0.021/00	± 0.026	0.2/0
30	50	+ 0.025/00	± 0.031	
50	80	+ 0.030/00	± 0.037	
80	120	+ 0.035/00	± 0.043	
120	180	+ 0.040/00	± 0.050	+ 0.3/0
180	250	+ 0.046/00	± 0.057	
250	315	+ 0.052/00	± 0.065	+ 0.4/0
315	400	+ 0.057/00	± 0.070	
400	500	+ 0.063/00	± 0.077	+ 0.5/0

HOW TO SELECT B-FLEX COUPLING

I. SELECTION PROCEDURE

(a) Service Factor
Determine appropriate SERVICE FACTOR from table A. given on next page.

(b) Design Power
Multiply running power of driven machinery by the service factor. This gives DESIGN POWER, which is used as a basis for coupling selection.

(c) Coupling Size
Refer to respective table for your required coupling type and read from the appropriate speed column until a power equal to or greater than the DESIGN POWER is found.

(d) Bore size
Refer respective coupling dimensional table to check that the reqd. bores can be accommodated. If bore size of selected coupling can't accommodate, the shaft size then go for next coupling size where shaft size can be accommodated.

II. SELECTION EXAMPLE

A coupling is required to transmit 75 kW from an electric motor, which runs at 1500 rev/min to a rotary mill. Shaft diameters for motor & rotary mill is 80 mm. & 85 mm. resp.

(a) Service Factor
From Table 'A', service factor is 1.25.

(b) Design Power
Design Power = 75 x 1.25 = 93.75 kW @ 1500 RPM

(c) Coupling Size
First power rating for 1500 rev/min, which exceeds the design power of 93.75 kW, is 101 kW. Hence coupling size will be RB-178 - 6.

(d) Bore Size
Max. bore sizes for RB-178 - 6 can not accommodate given shaft dias. Hence next coupling sizes are checked, and found RB-198-10 (Max. Bores 80 & 90 mm) can accommodate the required bores, hence selection of RB-198-10 is OK for this application.

SERVICE FACTOR TABLE 'A'

DRIVEN MACHINE CLASS	TYPE OF DRIVING UNIT		
	Electric motor, steam turbine	Multi cylinder IC engine or steam engine or water turbine	Single cylinder IC engine or steam engine
UNIFORM Agitators, Brewing machinery, Centrifugal Blowers, Conveyors, Centrifugal fans and pumps, Generators, Sewage disposal equipments, Evaporators, Feeders, Textile machines, Wood working machines.	1.00	1.25	1.50
MODERATE SHOCK Clay working machinery, Crane Hoists, Laundry machinery, Machine Tools, Rotary mills, Paper mill machinery, Non-uniformly loaded centrifugal pumps, Rotary screens, Centrifugal compressors, Shredders, Printing presses, Oil industry, Mixers, Food industry, Beaters, Bucket elevators, Gear pumps, Wood working machinery, Textile machinery.	1.25	1.50	1.75
HEAVY SHOCK Reciprocating conveyors, Crushers, Shakers, Metal mills, Rubber machinery (Banbury mixers & mills), Reciprocating compressors, Welding sets, Freight & passenger elevators, Cooling tower fans, Hammer mills, Reciprocating pumps, Vibrating screens, Winches, Wire drawing machines.	1.75	2.00	2.25

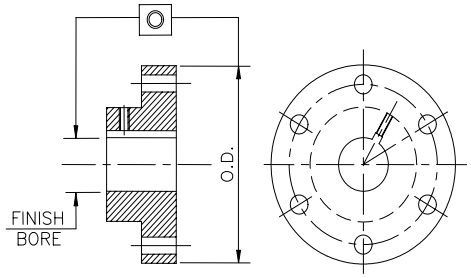
INSTALLATION INSTRUCTIONS

(A) BEFORE INSTALLATION

- After removing the coupling from packing, thoroughly inspect for sign of damage or loss.
- Remove protective coating/lubricant from bores & keyways dismantle the assembly.
- If the coupling is supplied in pilot bore, the finish bore must be done w.r.t. coupling OD The keyway must be done in between two adjacent holes. (Ref. Fig. 'A' given below)

B) MOUNTING PROCEDURE

Fig. A



Mount the Pin & Bush halves on their respective shafts such that the shaft ends are flush with inner face. Tighten the setscrew over the keys.
Bring both the halves (along with equipments) closer to maintain the std. distance between two shaft ends. (Refer Table 1 & Fig.B for Gap 'S')
Deviation in std. gap 'S' is defined as axial misalignment (end float).
For normal applications the shaft ends should be flushed with inner face of halves. In some special cases, the shaft ends may protrude beyond the inner face of halves or may remain inside if required, but the gap 'S' should be maintained as specified.

(C) ALIGNMENT PROCEDURE

Alignment procedure is given separately for each type of alignment, for simplicity. However all 3 type of misalignments may be present at the same time.
Refer table 1 & 2 for acceptable limits of misalignments.

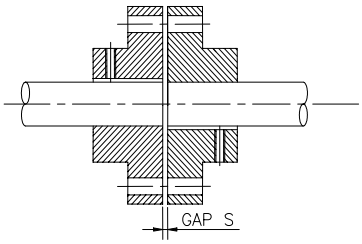
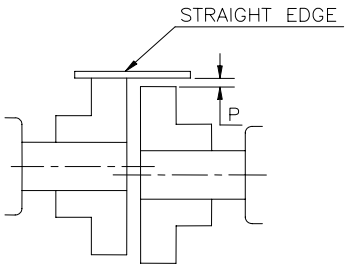


Fig B

(I) CHECKING PARALLEL / RADIAL ALIGNMENT

Fig. C



* Using Straight Edge (Fig. C)
Align straight edge on flange OD of one of the halves, measure the gap at 4 places 90° apart, gap 'P' will be the parallel / Radial misalignment. (Refer table 1 & 2 for allowable parallel misalignment values)

* Using Dial Gauge (Fig. D)
Fix the dial gauge on hub OD of one of the halves & set plunger on the flange OD of another half. Rotate the coupling slowly to one complete revolution by taking dial gauge reading at 4 places 90° apart. The parallel misalignment is half the Total Indicated Reading (TIR) shown on dial gauge which is equal to values 'P' given in table 1 & 2. (Refer table 1 & 2 for allowable parallel misalignment values)

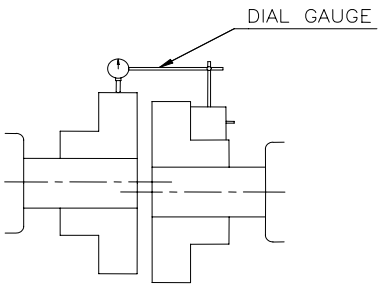
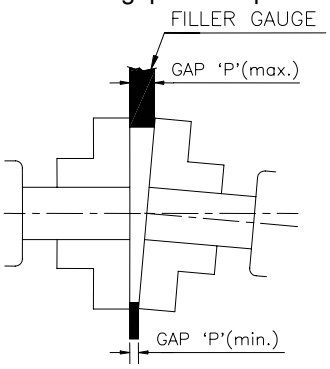


Fig. D

(II) CHECKING ANGULAR ALIGNMENT

*** Using Filler Gauge (Fig. E)**

Measure gap 'P 'at 4 places 90° apart. The difference in maximum & minimum gap will be the Total Indicated Reading (TIR), which will be the angular misalignment present. (Refer table 1 & 2 for allowable TIR values in mm.)



*** Using Dial Gauge (Fig.F)**

Fix the dial gauge on hub OD of the one of the halves & set plunger on the face of the flange of the another half as shown. Rotate coupling slowly to one complete revolution by taking dial readings at 4 intervals 90° apart. The Total Indicated Reading (TIR) will be the angular misalignment. (Refer table 1 & 2 for allowable TIR values in mm)

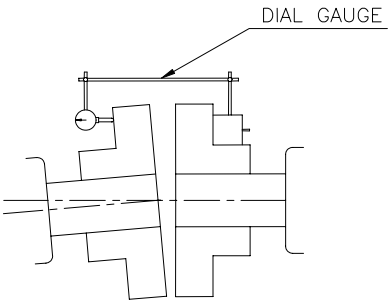


Fig: F

After alignment, tighten all foundation & base frame bolts.

IMPORTANT: The misalignment capabilities shown in drawings or product literature are for dynamic conditions & variations.
For optimum service from the coupling, the installation (Initial) misalignment should not be more than 25% of the maximum allowable misalignments limits. Allowance should be made for any anticipated movements which will occurs during operation (e.g. Thermal movements).

IMPORTANT: The necessity for shields & guards varies with individuals installations. The owner or user must provide the required safety guards. Safety guards or shields are not furnished by us with this equipments.

TABLE 1

SR NO	COUPLING SIZE	Permissible Initial Misalignment				* GAP 'S' (Std)
		Angular		Axial (mm)	Parallel / Radial 'P' mm	
		Degree	Total Indicated Reading (TIR) mm			
1	RB-105 - 3	0.25°	0.458	0.5	0.075	2-6
2	RB-116 - 4	0.25°	0.489	0.5	0.075	2-6
3	RB-125 - 4	0.25°	0.545	0.5	0.1	2-6
4	RB-144 - 6	0.25°	0.628	0.5	0.1	2-6
5	RB-162 - 6	0.25°	0.707	0.5	0.125	2-6
6	RB-178 - 6	0.25°	0.777	0.5	0.125	2-6
7	RB-198 - 10	0.25°	0.864	0.5	0.125	2-6
8	RB-228 - 11	0.25°	0.995	0.75	0.15	4-10
9	RB-252 - 12	0.25°	1.099	0.75	0.15	4-10
10	RB-285 - 11	0.25°	1.243	0.75	0.175	4-10
11	RB-320 - 12	0.25°	1.396	0.75	0.175	4-10
12	RB-360 - 11	0.25°	1.571	1.0	0.225	4-12
13	RB-400 - 10	0.25°	1.745	1.0	0.275	4-12
14	RB-450 - 12	0.125°	0.982	1.0	0.275	4-12
15	RB-500 - 14	0.1°	0.873	1.0	0.275	4-12
16	RB-560 - 10	0.075°	0.733	0.5	0.375	4-8
17	RB-630 - 12	0.075°	0.825	0.5	0.375	4-8
18	RB-710 - 12	0.075°	0.929	0.5	0.45	5-9
19	RB-800 - 14	0.075°	1.047	0.5	0.45	5-9
20	RB-900 - 16	0.075°	1.178	0.5	0.45	5-9

* Gap 'S' in the above table is given when angular & axial misalignments are zero.

Note: For permissible maximum misalignments, refer Table 2.

TABLE 2

SR NO	COUPLING SIZE	Permissible Maximum Misalignment				* GAP 'S' (Std)
		Angular		Axial (mm)	Parallel / Radial 'P' mm	
		Degree	Total Indicated Reading (TIR) mm			
1	RB-105 - 3	1°	1.833	2	0.3	2-6
2	RB-116 - 4	1°	1.955	2	0.3	2-6
3	RB-125 - 4	1°	2.182	2	0.4	2-6
4	RB-144 - 6	1°	2.513	2	0.4	2-6
5	RB-162 - 6	1°	2.827	2	0.4	2-6
6	RB-178 - 6	1°	3.107	2	0.5	2-6
7	RB-198 - 10	1°	3.456	2	0.5	2-6
8	RB-228 - 11	1°	3.979	3	0.6	4-10
9	RB-252 - 12	1°	4.398	3	0.6	4-10
10	RB-285 - 11	1°	4.973	3	0.7	4-10
11	RB-320 - 12	1°	5.584	3	0.7	4-10
12	RB-360 - 11	1°	6.282	4	0.9	4-12
13	RB-400 - 10	1°	6.980	4	1.1	4-12
14	RB-450 - 12	0. 5°	3.926	4	1.1	4-12
15	RB-500 - 14	0.4°	3.490	4	1.1	4-12
16	RB-560 - 10	0.3°	2.932	2	1.5	4-8
17	RB-630 - 12	0.3°	3.298	2	1.5	4-8
18	RB-710 - 12	0.3°	3.717	2	1.8	5-9
19	RB-800 - 14	0.3°	4.188	2	1.8	5-9
20	RB-900 - 16	0.3°	4.71	2	1.8	5-9

* Gap 'S' in the above table is given when angular & axial misalignments are zero.

Important: At the time of installation, INITIAL misalignments should not exceed 25% of permissible maximum misalignments.

Note : For permissible initial misalignments, refer Table 1.

(D) ASSEMBLY PROCEDURE

Insert all the pins with bushes at bush half & tighten the nuts evenly with tightening torques as mentioned in table 3.

Use Loctite to prevent the loosening of threads, if required.

TABLE 3:

RECOMMENDED TIGHTENING TORQUES

SR. NO.	COUPLING SIZE	BOLT SIZE	TIGHTENING TORQUE (Nm)
1	RB-105 - 3	M8	22
2	RB-116 - 4		
3	RB-125 - 4		
4	RB-144 - 6		
5	RB-162 - 6	M10	45
6	RB-178 - 6		
7	RB-198 - 10		
8	RB-228 - 11	M14	125
9	RB-252 - 12		
10	RB-285 - 11	M16	190
11	RB-320 - 12		
12	RB-360 - 11	M20	385
13	RB-400 - 10		
14	RB-450 - 12		
15	RB-500 - 14		
16	RB-560 - 10	M36	2325
17	RB-630 - 12		
18	RB-710 - 12	M42	3720
19	RB-800 - 14		
20	RB-900 - 16		

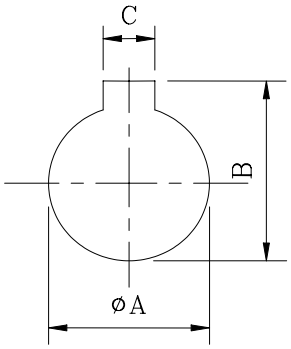
Note:
All the above values are for Hexagon headed High Tensile Gr. 10.9 bolts as per IS 1364.

SPARE DETAILS FOR B-FLEX COUPLING

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-112-4/2	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

STANDARD TOLERANCES FOR FINISH BORE & KEYWAY

Unless otherwise specified, couplings with finish bore & keyway are supplied as per IS 2048 :1962 and tolerances in H7 & Js9 (as per IS-919 (Part 2) : 1993 standard).



∅A - Bore
B - Keyway Depth
C - Keyway Width

Basic Size (mm.)		H7 For Bores (mm.)	JS9 For Keyway Width (mm.)	For Keyway Depth (mm.)
Above	Upto & including			
3	6	+ 0.012	± 0.015	+ 0.1
6	10	+ 0.015	± 0.018	
10	18	+ 0.018	± 0.021	
18	30	+ 0.021	± 0.026	+ 0.2
30	50	+ 0.025	± 0.031	
50	80	+ 0.030	± 0.037	
80	120	+ 0.035	± 0.043	
120	180	+ 0.040	± 0.050	+ 0.3
180	250	+ 0.046	± 0.057	
250	315	+ 0.052	± 0.065	+ 0.4
315	400	+ 0.057	± 0.070	
400	500	+ 0.063	± 0.077	+ 0.5

COMPARISON OF B-FLEX (RB) & CONE-FLEX (RC) COUPLINGS

There is a substantial difference in prices of RB & RC couplings. RB is relatively cheaper than RC coupling.
The causes of price difference are as follows.

CONE-FLEX (RC)	B-FLEX (RB)
Multiple cone rings are used for single pin.	One bush is used for one pin.
Holes on bush half are reamed.	Holes on bush half are drilled.
Holes are machined with close tol. on PCD & Pitch.	Holes are machined with comparatively loose tol. on PCD & Pitch.
Nylock nuts are used on pins.	Std. nuts are used on pins.
Cone rings are made from nitrile rubber.	Bushes are made from natural rubber.

EQUIVALENT RATHI B-FLEX RB COUPLING FOR RATHI RC COUPLING

RATHI RC				RATHI B-FLEX RB			
COUPLING SIZE	kW AT 1500 rpm	MAX. BORE (mm.)		COUPLING SIZE	kW AT 1500 rpm	MAX. BORE (mm.)	
		BH	PH			BH	PH
020	8.4	20	28	105-3	15	30	32
030	18	30	38	116-4	23	39	42
038	30	38	42	144-6	50	50	60
042	45	42	48	144-6	50	50	60
048	75	48	55	162-6	82.5	60	65
058	120	58	65	198-10	196	80	90
070	165	70	75	198-10	196	80	90
075	405	75	80	252-12	482	105	115
085	555	85	90	285-11	715	115	125
105	840	105	120	320-12	958	125	135
120	1410	120	130	360 -11*	1395	135	150
135	1920	135	150	400 -10*	1893	160	160
150	2505	150	170	450-12	2922	180	180
170	3870	170	190	500-14	4053	200	200
190	5400	190	215	630-12	6597	250	250
215	7005	215	240	710-12	11781	260	260

NOTE: Above comparison is done on the basis of both, kW rating & maximum bore sizes.
* Rating of RB coupling is marginally less than RC coupling.
*BH = Bush Half & PH = Pin Half

COMPETITORS FOR B-FLEX COUPLING

SR	COMPETITOR	MAX. Kw @ 1500 rpm	MAX. BORE (MM.)
1	Flender Rupex (RWN Series) (GERMANY)	157500	600
2	SNS Coupling (CL & HCL Series) (JAPAN)	17259 @ 1500 rpm	280
3	Fenner [Type B] [INDIA]	3735 @ 1500 rpm	190
4	Unique [PB Series] [INDIA]	62751 @ 1500 rpm	450

EQUIVALENT RATHI B-FLEX RB COUPLING FOR FLENDER RUPEX COUPLING

RUPEX RWN				RATHI B-FLEX RB			
COUPLING	kW AT	MAX. BORE (mm.)		COUPLING	KW AT	MAX. BORE (mm.)	
SIZE	1500 rpm	BH	PH	SIZE	1500 rpm	BH	PH
105	23.4	32	38	125-4	26	45	50
125	40.8	40	48	144 -6	50	50	60
144	61.2	45	55	162-6	82.5	60	65
162	91.05	50	60	178-6	101	70	75
178	113.1	60	70	198-10	196	80	90
198	157.5	70	80	198-10	196	80	90
228	265.5	80	90	228-11	322	90	100
252	330	90	100	228 -11*	322	90	100
285	519	100	110	285-11	715	115	125
320	660	110	120	285-11	715	115	125
360	942	120	130	320-12	960	125	135
400	1530	140	140	400-10	1893	160	160
450	2280	160	160	450-12	2922	180	180
500	2985	180	180	450 -12*	2922	180	180
560	4710	180	200	560-10	4870	225	225
630	6285	180	220	630-12	6597	250	250
710	10200	200	240	710-12	11781	260	260
800	13500	220	260	800-14	15708	280	280
900	18750	260	290	900-16	24347	305	305
1000	24000	280	320	NOT AVAILABLE			
1120	33000	300	350				
1250	42000	330	380				
1400	64500	380	440				
1600	91500	440	480				
1800	118500	500	540				
2000	157500	560	600				

***** Rating of RB is marginally less than Flender.

NOTE: Above comparison is done on the basis of both, kW rating & maximum bore sizes.

*BH = Bush Half & PH = Pin Half

EQUIVALENT RATHI B-FLEX RB COUPLING FOR SNS CL & HCL COUPLING

SNS COUPLING			RATHI B-FLEX COUPLING			
COUPLING SIZE	kW AT 1500 rpm	MAX. BORE (mm)	COUPLING SIZE	kW AT 1500 rpm	MAX. BORE (mm.)	
					BH	PH
CL-140	7.7	35	RB-105-3*	15	30	32
CL-160	17.3	45	RB-125-4	26	45	50
CL-180	24.6	50	RB-125-4*	26	45	50
CL-200	39	56	RB-144-6*	50	50	60
CL-224	62	63	RB-178-6	101	70	75
CL-250	97	71	RB-178-6	101	70	75
CL-280	154	80	RB-198-10	196	80	90
CL-315	247	90	RB-228-11	322	90	100
CL-355	385	100	RB-252-12	482	105	115
CL-400	616	110	RB-285-11	715	115	125
CL-450	971	125	RB-320-12**	958	125	135
CL-560	1541	140	RB-400-10	1893	160	160
CL-630	2466	160	RB-450-12	2922	180	180
HCL-710B	3852	180	RB-500-14	4053	200	200
HCL-711B	5239	200	RB-630-12	6597	250	250
HCL-800B	6934	210	RB-710-12	11781	260	260
HCL-900B	8629	225	RB-710-12	11781	260	260
HCL-901B	10941	250	RB-710-12	11781	260	260
HCL-1000B	13869	265	RB-800-14	15708	280	280
HCL-1120B	17259	280	RB-900-16	24347	305	305

NOTE: Above comparison is done on the basis of both, kW rating & maximum bore sizes.

* The max. bore BH of RB size is only marginally less than that of SNS CL size.
** The rating of RB size is only marginally less than that of SNS CL size.
***BH = Bush Half & PH = Pin Half

EQUIVALENT RATHI B-FLEX RB COUPLING FOR FENNER TYPE B COUPLING

FENNER TYPE `B' COUPLING			RATHI B-FLEX COUPLING			
COUPLING SIZE	Kw AT 1500 rpm	MAX. BORE (mm)	COUPLING SIZE	kW AT 1500 rpm	MAX. BORE (mm.)	
					PH	BH
BC 1	12	28	RB-105-3	15	32	30
BC 2	49	30	RB-144-6	84	60	50
BC 2A	81	42	RB-144-6	84	60	50
BC 3	98	48	RB-178-6	101	75	70
BC 4	131	65	RB-198-10	196	90	80
BC 4A	195	65	RB-198-10	196	90	80
BC 5	261	75	RB-228-11	322	100	90
BC 6	371	95	RB-252-12	482	115	105
BC 6A	461	95	RB-252-12	482	115	105
BC 6B	355	95	RB-285-11	715	125	115
NBC 7	653	115	RB-285-11	715	125	115
NBC 7A	818	120	RB-320-12	958	135	125
NBC 8	914	130	RB-360-11	1398	150	135
NBC 8A	1142	135	RB-360-11	1398	150	135
NBC 8B	1371	140	RB-400-10	1893	160	160
NBC 9	1560	150	RB-400-10	1893	160	160
NBC 9A	2085	160	RB-450-12	2922	180	180
NBC 10	2265	170	RB-450-12	2922	180	180
NBC 10A	2835	180	RB-450-12	2922	180	180
NBC 11	3735	190	RB-500-14	4053	200	200

NOTE: Above comparison is done on the basis of both, kW rating & maximum bore sizes.
*BH = Bush Half & PH = Pin Half

EQUIVALENT RATHI B-FLEX RB COUPLING FOR UNIQUE PB SERIES COUPLING

UNIQUE PB SERIES				RATHI B-FLEX RB			
COUPLING SIZE	kW AT 1500 rpm	MAX. BORE (mm.) PH	MAX. BORE (mm.) BH	COUPLING SIZE	kW AT 1500 rpm	MAX. BORE (mm.) PH	MAX. BORE (mm.) BH
96	16	30	28	RB-105-3*	15	32	30
112	31	42	38	RB-144-6	50	60	50
125	51	48	40	RB-144-6*	50	60	50
140	82	55	48	RB-162-6	82.5	65	60
160	99	60	53	RB-178-6	101	75	70
180	134	70	65	RB-198-10	196	90	80
200	196	80	75	RB-198-10	196	90	80
225	314	90	83	RB-228-11	322	100	90
250	471	103	95	RB-252-12	482	115	105
285	690	110	103	RB-285-11	715	125	115
320	939	122	118	RB-320-12	958	135	125
360	1376	130	130	RB-360-11	1398	150	135
400	1847	145	135	RB-400-10	1893	160	160
450	2831	160	150	RB-450-12	2922	180	180
500	3914	180	170	RB-500-14	4053	200	200
560	4698	200	185	RB-560-10	4870	225	225
630	6264	220	210	RB-630-12	6597	250	250
710	12528	240	240	RB-800-14	15708	280	280
800	17226	290	290	RB-900-16	24347	305	305
900	25839	340	340	NOT AVAILABLE			
1000	34508	380	380				
1100	44742	400	400				
1200	62751	450	450				

* The rating of RB size is only marginally less than that of UNIQUE PB size.

NOTE: Above comparison is done on the basis of both, kW rating & maximum bore sizes.
*BH = Bush Half & PH = Pin Half