Rathi N-Flex couplings consist of graded cast iron hubs and a set of ‘H’ shaped highly resilient blocks which accommodates parallel, angular and axial misalignments & absorbs torsional vibrations. Rathi N-Flex spacer couplings (Type - RNS) are suitable for ‘Back Pullout Pumps’ in which the impeller can be disassembled without disturbing motor and pump from the base frame.

FEATURES

SIMPLICITY OF CONSTRUCTION
Easy to assemble & disassemble. Suitable for reversing operation.

VARYING STIFFNESS CHARACTERISTICS
Special H shaped inserts provide progressively increasing stiffness characteristics, hence ensure effective shocks & vibration absorption. Special elastomer can be supplied to suit specific application needs.

NO LUBRICATION
RN/RNS couplings do not require lubrication of any kind.

SIMPLE / EASY MAINTENANCE
No complicated mechanism to demand adjustment or maintenance. Inspection and replacement of inserts is easy.

LOW OPERATIONAL COST
Only wear part is low cost inserts which make coupling economical in long run.

SMOOTH & QUIET OPERATION
Reduces vibration & noise arising from severe torque fluctuations. Operating temp. is -30°C to +100°C.

Application:
Mainly for pump applications such as:
- Water Pumps
- Slurry Pumps
- Sewage Pumps
- Back Pullout Pumps
- Multistage Pumps
- Split Case Pumps
- API Pumps
- Chemical Process Pumps
- Metering/Dosing Pumps
- Gear Pumps
- Paper Stock Pumps
- Screw Pumps
- Vacuum Pumps
- Fire Pumps
- High Pressure Pumps
### N-FLEX RN COUPLINGS

#### Type RN / RNS

**Coupling Size** | **Rated Torque N-m** | **Kw at 100 RPM** | **Max. Bore (mm) Part No** | **Dimensions (mm)** | **Weight (Kg)** | **M.J (WR²) Kg-m²**
--- | --- | --- | --- | --- | --- | ---
68 B | 34 | 0.36 | 5000 24 28 - 68 46 - - 20 - 8 - - - 0.63 | - - | 0.0003 | - -
80 B,H | 60 | 0.63 | 5000 30 * 38 - 80 68 55 - 30 45 10 - - 100 140 | 1.51 | 2.8 | 2.9 | 0.0012 | - 0.0014 0.0015
95 B,H | 100 | 1.1 | 5000 42 42 - 95 76 70 - 35 45 12 - - 100 140 | 2.6 | 3.9 | 4.2 | 0.0027 | - 0.0028 0.0031
A,B,H 110 | 160 | 1.7 | 5000 48 48 38 110 86 80 62 40 50 14 20 33 100 140 180 | 3.9 | 3.5 | 5.8 | 6.2 | 6.6 | 0.0055 | 0.0047 0.0056 0.0064 0.0066 0.0099 0.0100 0.0101
A,B,H 125 | 240 | 2.5 | 5000 55 55 45 125 100 90 75 50 50 18 23 38 100 140 180 | 6.2 | 5.6 | 8.2 | 8.7 | 9.2 | 0.0107 | 0.0095 0.0100 0.0101
A,B,H 140 | 360 | 3.8 | 4900 60 60 50 140 100 100 82 55 65 20 28 43 140 180 | 6.9 | 7 | 11.8 | 12.3 | 0.014 | 0.015 | 0.019 | 0.020
A,B,H 160 | 560 | 5.9 | 4250 65 65 58 160 108 108 95 60 70 20 28 47 140 180 | 9.4 | 9.8 | 15.2 | 16.0 | 0.025 | 0.028 | 0.032 | 0.034
A,B,H 180 | 880 | 9.2 | 3800 75 75 65 180 125 125 108 70 80 20 30 50 140 180 | 14 | 14.2 | 21.0 | 21.9 | 0.045 | 0.049 | 0.054 | 0.058
A,B,H 200 | 1340 | 14 | 3400 85 85 75 200 140 140 122 80 90 24 32 53 180 200 250 | 20 | 19.8 | 30.3 | 30.9 | 32.1 | 0.08 | 0.085 | 0.100 | 0.105 | 0.106
A,B,H 225 | 2000 | 21 | 3000 90 90 85 225 150 150 138 90 100 18 38 61 180 200 250 | 24.5 | 27 | 39 | 39.7 | 41.5 | 0.135 | 0.15 | 0.160 | 0.170 | 0.180
A,B,H 250 | 2800 | 29 | 2750 100 100 95 250 165 165 155 100 110 18 42 69 200 250 | 34 | 37 | 54.7 | 56.5 | 0.23 | 0.25 | 0.280 | 0.300

- All dimensions are in mm.
- * = Bore 32 mm for part 5.
- S1 = 2-4mm for sizes 68 to 140, 2-6 mm for sizes 160 to 225 & 3-8 mm for size 250.
- S2 = 5 mm for sizes 80 to 140, 6 mm for sizes 160 to 225 & 8 mm for size 250.
- Part No. 5 is available with different length through Bores D2.
- Max. bore for coupling with or equivalent to DIN 6885 keys.
- For vertical installation contact RATHI.

---

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

ISO NBR:
BUREAU VERITAS
Emirates

---

R-J-12/0-0513