



#### Design Features include:

- Optimum torque density providing low overhung loads/lower cost of ownership
- Unitized disc pack for easy installation
- Tapered bolt design providing quick installation without damaging the disc pack
- Manganese Phosphate standard protective coating

#### Applications:

- Pumps
- Compressors
- Fans
- Synchronized rollers
- Wire Feeders
- Blowers

#### Industry Compliant:

- ISO 14691
- ATEX II 2GD c T6

#### Special design options:

- Electrically insulated
- Torsionally adjusted
- Limited end float
- Torque meter
- Reduced sparking

## Rexnord Thomas XTSR52 Disc Coupling

### Customer-focused solutions.

### Reliable Performance.

### Trusted Brands.

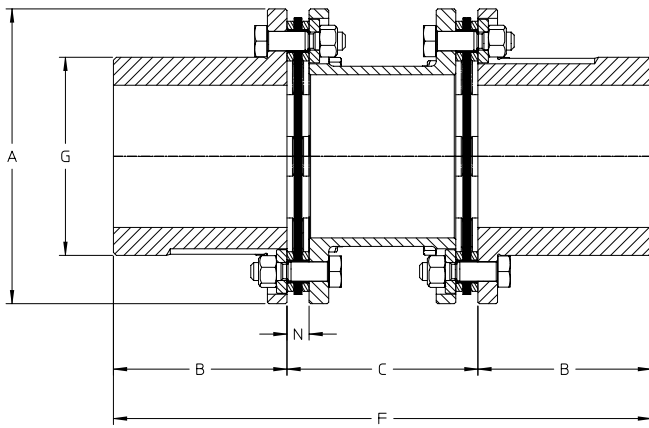
You want a trusted name when it comes to providing engineered power transmission products that improve productivity and efficiency. Rexnord® provides superior products for your industrial applications world wide. We work closely with you to reduce maintenance costs, eliminate redundant inventories and prevent equipment downtime.

### Thomas XTSR52

For decades the reliability of Thomas® SR52 couplings have led the industry as the most highly specified disc coupling by rotating equipment engineers around the globe. Rexnord has advanced the design and performance with the introduction of the XTSR52. The new design is engineered with optimum torque density ratios to minimize overhung loads while transmitting maximum torque and ensuring reliable and safe performance. The XTSR52 is available as a standard flexible membrane coupling or in special designs including torsionally tuned, breaker pin, electrically insulated, brake drum and brake disc.



ATEX II 2GD c T6



| Torque Demands Driven Machine | Typical Application for Electric Motor or Turbine Driven Equipment  | Typical Service Factor      |
|-------------------------------|---|-----------------------------|
|                               | Constant torque such as centrifugal pumps, blowers and compressors  | 1.0                         |
|                               | Continuous duty with some torque variations including plastic extruders and forced draft fans   | 1.5                         |
|                               | Light shock loads from metal extruders, cooling towers and log haulers  | 2.0                         |
|                               | Moderate shock loading as expected from a car dumper, stone crusher, vibrating screen   | 2.5                         |
|                               | Heavy shock load with some negative torques from reciprocating pumps, compressors, reversing turnout tables                                   | 3.0                         |
|                               | Frequent torque reversals such as reciprocating compressors with frequent torque reversals which do not necessarily include reverse rotations | Consult Rexnord Engineering |

| Coupling Size** | Max. Bore mm | A mm | B mm | Standard "C" Dimensions |     |     |     |     | Min. C mm | F mm | G mm  | N mm |
|-----------------|--------------|------|------|-------------------------|-----|-----|-----|-----|-----------|------|-------|------|
|                 |              |      |      | 100                     | 140 | 180 | 250 | 300 |           |      |       |      |
| 494             | 27           | 70   | 25   | •                       | •   |     |     |     |           | 41   | 8,6   |      |
| 644             | 38           | 85   | 25   | •                       | •   |     |     |     |           | 56   | 8,6   |      |
| 726             | 45           | 95   | 30   | •                       | •   | •   | •   |     | 40        | 100  | 63,8  | 8,6  |
| 826             | 50           | 108  | 50   | •                       | •   | •   | •   |     | 47        | 147  | 71,8  | 9,3  |
| 996             | 60           | 129  | 50   | •                       | •   | •   | •   |     | 54        | 154  | 84,4  | 9,6  |
| 1088            | 65           | 140  | 81   | •                       | •   | •   | •   |     | 58        | 220  | 92,1  | 10,4 |
| 1298            | 80           | 166  | 97   | •                       | •   | •   | •   |     | 70        | 264  | 110,6 | 12,9 |
| 1548            | 95           | 197  | 97   | •                       | •   | •   | •   |     | 81        | 275  | 132,4 | 14,8 |
| 1698            | 105          | 218  | 110  | •                       | •   | •   | •   |     | 89        | 309  | 146,9 | 15,8 |
| 1928            | 120          | 245  | 110  | •                       | •   | •   | •   |     | 96        | 316  | 167,7 | 17,1 |
| 2068            | 130          | 264  | 125  | •                       | •   | •   | •   |     | 109       | 359  | 178,6 | 18,4 |
| 2278            | 140          | 291  | 145  | •                       | •   | •   | •   |     | 115       | 405  | 196,7 | 19,2 |
| 2468            | 150          | 313  | 150  | •                       | •   | •   | •   |     | 123       | 423  | 213,5 | 20,5 |
| 2698            | 165          | 343  | 150  | •                       | •   | •   | •   |     | 139       | 439  | 232,1 | 23,5 |
| 2888            | 175          | 371  | 175  | •                       | •   | •   | •   |     | 151       | 501  | 246,0 | 25,2 |
| 3058            | 185          | 395  | 185  | •                       | •   | •   | •   |     | 152       | 522  | 263,0 | 25,2 |
| 3358            | 215          | 427  | 245  | •                       | •   | •   | •   |     | 168       | 658  | 288,1 | 27,3 |
| 3668            | 225          | 466  | 281  | •                       | •   | •   | •   |     | 184       | 746  | 315,2 | 30,4 |

| Coupling Size** | Max. kW / 100 RPM |  | Max. RPM     |          | Max. Continuous Torque Nm | Peak Overload Torque Nm | Weight* kg | Weight Change Per mm of "C" kg | Axial Capacity mm |
|-----------------|-------------------|--|--------------|----------|---------------------------|-------------------------|------------|--------------------------------|-------------------|
|                 | SF 1,0            |  | Not Balanced | Balanced |                           |                         |            |                                |                   |
| 494             | 0,89              |  | 13800        | 23000    | 85                        | 170                     | 0,88       | 0,00163                        | ±1,2              |
| 644             | 1,52              |  | 12500        | 21500    | 145                       | 290                     | 1,35       | 0,00302                        | ±1,7              |
| 726             | 3,11              |  | 12000        | 20000    | 297                       | 594                     | 1,57       | 0,00363                        | ±1,3              |
| 826             | 5,8               |  | 10900        | 18500    | 554                       | 1110                    | 2,97       | 0,0056                         | ±1,5              |
| 996             | 9,7               |  | 9800         | 15000    | 927                       | 1850                    | 4,56       | 0,0051                         | ±1,8              |
| 1088            | 23,0              |  | 9000         | 14000    | 2190                      | 4390                    | 7,90       | 0,0098                         | ±1,3              |
| 1298            | 37,2              |  | 8000         | 12000    | 3550                      | 7100                    | 13,50      | 0,0123                         | ±1,6              |
| 1548            | 61,9              |  | 7100         | 10000    | 5910                      | 11800                   | 20,11      | 0,0176                         | ±1,8              |
| 1698            | 85,7              |  | 6600         | 9100     | 8190                      | 16400                   | 27,76      | 0,0219                         | ±2,0              |
| 1928            | 116,0             |  | 6100         | 8500     | 11100                     | 22200                   | 37,04      | 0,0268                         | ±2,3              |
| 2068            | 161,0             |  | 5800         | 7800     | 15400                     | 30700                   | 48,77      | 0,0339                         | ±2,5              |
| 2278            | 209,0             |  | 5500         | 7100     | 19900                     | 39900                   | 65,74      | 0,0395                         | ±2,7              |
| 2468            | 274,0             |  | 5200         | 6500     | 26200                     | 52400                   | 81,57      | 0,0475                         | ±3,0              |
| 2698            | 376,0             |  | 4800         | 6000     | 35900                     | 71900                   | 103,59     | 0,0606                         | ±3,2              |
| 2888            | 492,0             |  | 4600         | 5700     | 47000                     | 94000                   | 139,41     | 0,0777                         | ±3,5              |
| 3058            | 545,0             |  | 4400         | 5400     | 52000                     | 104000                  | 161,46     | 0,0771                         | ±3,7              |
| 3358            | 735,0             |  | 4200         | 4700     | 70200                     | 140000                  | 231,56     | 0,0958                         | ±4,0              |
| 3668            | 987,0             |  | 3900         | 4400     | 94300                     | 189000                  | 311,00     | 0,1170                         | ±4,4              |

\* Weight and WR<sup>2</sup> calculated at minimum DBSE and Max. Bore.  
 \*\* Sizes up to 283 000 Nm and max bore 320 mm