

# Rexnord Thomas XTSR71 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 XTSR71

For decades the reliability of Thomas® SR71 couplings have led the industry. Rexnord has advanced the design and performance with the introduction of the XTSR71. The new design retains the piloted center member to provide fast installation and repeatable balance significantly reducing your installation and service time. In addition the XTSR71 is engineered with optimum torque density ratios to minimize overhung loads while transmitting maximum torque and ensuring reliable and safe performance. The XTSR71 meets API610 / ISO 13709 as manufactured and API671 / ISO 10441 when specified.

#### Design Features include:

- Available in 23 standard sizes and 4-, 6-, and 8-bolt designs to deliver optimal performance per application
- Factory-assembled center member enables “drop-in” installation without disturbing disc pack
- Optional oversized hubs (XL, XXL) across entire product range allow expanded bore capacity
- Stainless steel fully-unitized disc packs and tapered bolt design simplify installation
- All-steel construction and standard manganese phosphate coating provide reliable, maintenance-free operation

#### Applications:

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

#### Industry Compliant:

- API 671/ISO 10441 (when specified)
- API 610/ISO 13709
- ISO 14691
- ATEX II 2GD c T6

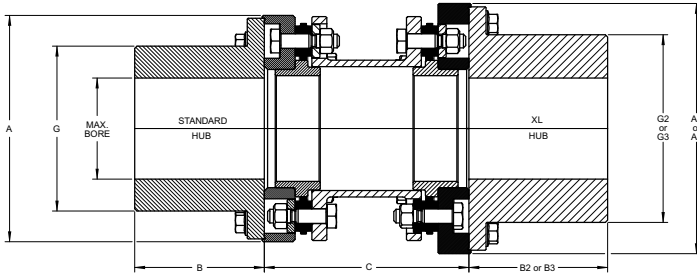


ATEX II 2GD c T6

#### Special Design Options:

- Spark resistant
- Electrically insulated
- Torque overload protection
- Shrink disc hub connection
- Alloy steel materials





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 Std hub (SH) mm	Max. Bore XL hub mm	Max. Bore XXL hub mm	A SH mm	A2 XL mm	A3 XXL mm	B SH mm	B2 XL mm	B3 XXL mm	Min C mm	G SH mm	G2 XL mm	G3 XXL mm
494	28	38	42	70	85	95	20	25	35	65	42	58	59
644	38	-	52	85	-	108	25	-	42	68	58	-	73
726	42	52	61	95	108	129	35	42	51	65	59	73	86
826	52	61	76	108	129	140	42	51	82	77	73	86	104
996	61	76	90	129	140	166	51	82	95	92	86	104	123
1088	76	90	105	140	166	199	82	95	114	96	104	123	145
1298	90	105	125	166	199	220	95	114	122	115	123	145	165
1548	105	125	135	199	220	245	114	122	135	135	145	165	182
1698	125	135	150	220	245	264	122	135	155	151	165	182	200
1928	135	150	155	245	264	291	135	155	167	161	182	200	220
2068	150	155	166	264	291	313	155	167	190	187	200	220	236
2278	155	166	200	291	313	345	167	190	185	196	220	236	280
2468	166	200	220	313	345	381	190	185	200	209	236	280	308
2698	200	220	235	345	381	405	185	200	191	236	280	308	332
2888	220	235	260	381	405	437	200	191	225	255	308	332	355
3058	235	260	285	405	437	482	191	225	257	257	332	355	398
3358	260	285	310	437	482	503	225	257	249	287	355	398	419
3668	285	310	330	482	503	529	257	249	266	310	398	419	444

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
	1.0	Not Balanced	Balanced					
494	0,89	13800	23000	85	170	1,6	0,00157	±1,2
644	1,52	12500	21500	145	290	2,5	0,00242	±1,7
726	3,1	12000	20000	297	594	3,1	0,00311	±1,3
826	5,8	10900	18500	554	1110	5,0	0,00535	±1,5
996	9,7	9800	15000	927	1850	8,4	0,00503	±1,8
1088	23,0	9000	14000	2190	4390	12,5	0,00966	±1,3
1298	37,2	8000	12000	3550	7100	20,6	0,0118	±1,6
1548	61,9	7100	10000	5910	11800	34,6	0,0161	±1,8
1698	85,7	6600	9100	8190	16400	47,0	0,0214	±2,0
1928	116,0	6100	8500	11100	22200	62,7	0,0251	±2,3
2068	161,0	5800	7800	15400	30700	84,9	0,0325	±2,5
2278	209,0	5500	7100	19900	39900	110	0,0378	±2,7
2468	274,0	5200	6500	26200	52400	143	0,0451	±3,0
2698	376,0	4800	6000	35900	71900	184	0,0572	±3,2
2888	492,0	4600	5700	47000	94000	257	0,0716	±3,5
3058	545,0	4400	5400	52000	104000	274	0,0723	±3,7
3358	735,0	4200	4700	70200	140000	366	0,0907	±4,0
3668	987,0	3900	4400	94300	189000	521	0,111	±4,4

\* Weight and WR<sup>2</sup> calculated with standard adapters at minimum C dimension and with max. bore.

\*\* Sizes up to 283 000 Nm and max bore 430 mm