



## **Thomas<sup>®</sup> SR 54 RDG**

### ***Precision. Power. Performance.***

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.

### ***Applications include:***

- ▶ pumps
- ▶ compressors
- ▶ general purpose machinery
- ▶ paper machines

### ***Rexnord<sup>®</sup> Thomas<sup>®</sup> Series 54 RDG Coupling***

Reduced diameter close coupled flexible metallic disc coupling with high power density. The split piloted center member design provides high speed and torque ratings while permitting service of the coupling with out moving the hubs or connected equipment.



Ex Certified II 2G c T5

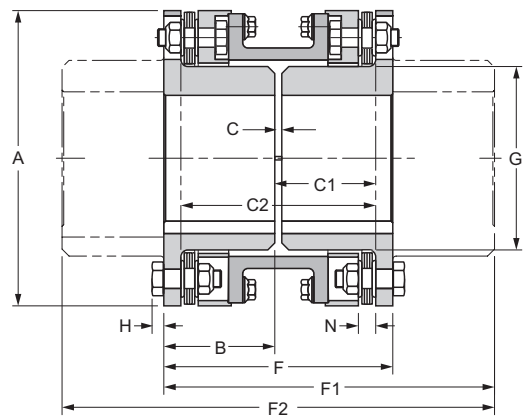
# Thomas® SR 54 RDG

## Features

- ▶ Axially split design
- ▶ Piloted split center spool
- ▶ Stainless Steel Discs standard

## Benefits

- ▶ Ease of installation
- ▶ Close coupled
- ▶ Meets API 610 10th edition when specified
- ▶ High torque capacity
- ▶ High speed capacity
- ▶ Corrosion resistant
- ▶ Meets API when specified



SIZE	Max, RPM <sup>(1)</sup>		Continuous Torque (Nm.)	54RDG Max Overload Torque (Nm.)	Weight <sup>(2)</sup> (Kg.)	WR <sup>2</sup> (Kg·m <sup>2</sup> )	Axial Capacity (mm)
	Not Balanced	Balanced					
125	4 600	10 500	305	610	3,1	0,0037	±0,91
162	4 200	9 700	604	1 208	4,2	0,0070	±0,91
200	3 800	8 600	1 185	2 371	7,3	0,0196	±0,91
225	3 700	8 400	1 976	3 951	8,6	0,0249	±0,91
262	3 600	7 400	3 706	7 413	14,1	0,0562	±1,09
312	3 000	6 700	5 803	11 605	20,9	0,1124	±1,29
350	2 800	6 200	7 552	15 105	30,0	0,2016	±1,42
375	2 500	4 800	11 323	22 646	40,0	0,3394	±1,57
425	2 300	5 400	15 161	30 323	53,1	0,5208	±1,70
450	2 200	5 000	16 979	33 958	69,9	0,7871	±1,82
500	2 000	4 600	27 817	55 633	101,7	1,4542	±2,02
550	1 900	4 200	37 300	74 599	147,1	2,6246	±2,33
600	1 800	3 900	48 973	97 945	198,4	4,3597	±2,59

Larger sizes to 194.600 Nm MCT available upon request

(1) Contact Rexnord for explanation of RPM limits and balancing recommendations

(2) Weight and WR<sup>2</sup> with standard length hubs, maximum bore and standard C

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

SIZE	Max Bore (mm)	A (mm)	B (mm)	C (mm)	C1** (mm)	F (mm)	F1** (mm)	H (mm)	N (mm)	G (mm)	C2*** (mm)	F2*** (mm)
125	30	97	48	3,0	44,5	99	125	4,3	6,9	44	85,9	152,4
162	42	114	48	3,0	45,0	99	137	4,3	7,4	59	86,9	175,8
200	60	141	54	3,0	49,8	111	156	5,6	9,1	83	96,5	201,2
225	65	149	56	3,0	51,6	114	174	5,6	9,1	89	100,1	233,2
262	74	175	66	4,8	61,5	136	200	6,4	11,9	105	118,1	264,4
312	95	199	72	4,8	66,5	149	225	7,6	12,7	127	128,3	300,0
350	100	223	83	6,4	77,7	173	256	8,6	13,7	140	149,1	339,6
375	114	247	90	6,4	82,8	187	275	9,9	15,0	154	159,3	362,5
425	120	267	101	6,4	91,7	208	300	10,7	15,7	167	177,0	392,9
450	130	287	114	7,9	105,4	236	334	11,9	18,0	178	202,9	431,5
500	137	327	121	7,9	109,7	251	358	12,7	19,8	200	211,6	465,6
550	150	367	136	9,7	123,7	282	400	14,7	23,1	222	237,7	517,1
600	166	406	152	9,7	137,2	314	442	17,0	24,9	236	264,7	569,5

\*\*One internal and one external hub. \*\*\*Two external hubs.



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