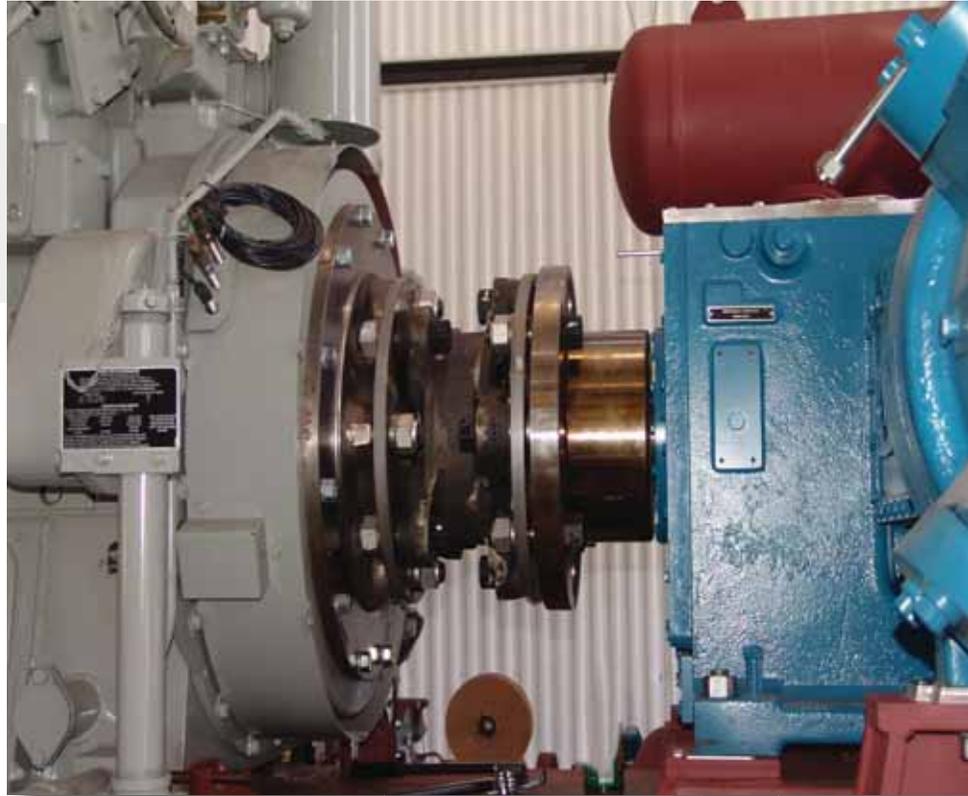


# Rexnord® Couplings

## Reciprocating Compressors



# Rexnord's Commitment to Gas Compression

M.T. Thomas revolutionized the coupling industry by inventing the flexible disc coupling in 1919. Today, Thomas' engineers continue to improve the disc coupling through design innovation, modern materials and lean manufacturing processes.

Thomas® AMR and CMR type couplings were engineered specifically for the continuous alternating or vibratory torque loads and slow to medium speeds required for the Gas Compression Industry. The Thomas Series 44 type coupling expands on that theme by offering custom center member dimensions, high operating speeds, balancing capabilities and the ability to meet API specifications. All types offer a wide range of mounting requirements including keyed, keyless, straight bore, taper bore, hydraulic fits and various flanged shafts.

## Thomas Flexible Disc Coupling Benefits

- High reliability
- Extensive engineering support
- Custom design capability
- Broad range of styles and sizes
- Global support
- No lubrication
- Visual inspection
- No backlash
- Low restoring forces
- Wide temperature range



### Thomas AMR Type Coupling

- Heavy duty slow to medium speed applications
- High torque capacity
- Compact, open lug center member design
- Economical



### Thomas CMR Type Coupling

- Heavy duty slow to medium speed applications
- High torque capacity
- Compact, open lug center member design
- Flywheel recess mounting capability
- Economical



### Thomas Series 44 Type Coupling

- Heavy duty slow to high speed applications
- High torque capacity
- API specification compliant capability
- Custom center member lengths
- Flywheel recess mounting capability
- All steel, fully machined design
- Balancing Capabilities
- Custom Engineered Solutions

# Thomas Flexible Disc Couplings – AMR Type

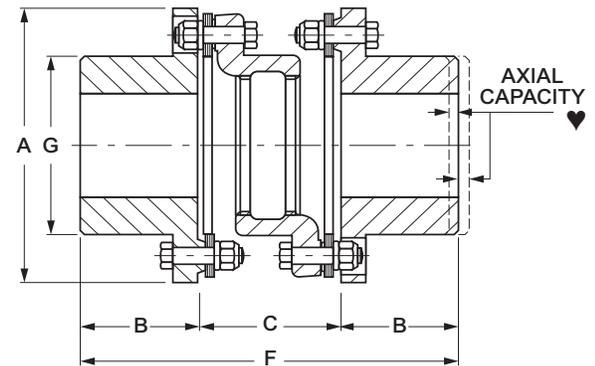
AMR couplings are used in heavy duty slow to medium speed applications, where high starting torque, shock loads, torque reversals or continuous alternating torques are present. The open lug type center member provides ample clearance for assembly while minimizing the space required for coupling installation.

## General Dimensions (Inches)

Coupling Size	Rough Bore *	Max Bore	A	B	C	F	G
162	...	1.62	4.56	1.75	2.62	6.12	2.75
200	...	2.00	5.75	2.12	3.00	7.25	3.62
225	...	2.25	6.00	2.50	3.00	8.00	3.88
262	...	2.62	6.88	2.88	3.50	9.25	4.50
312	...	3.12	8.12	3.38	4.12	10.88	5.44
350	...	3.50	9.12	3.75	4.56	12.06	6.00
375	...	3.75	10.06	4.00	5.12	13.12	6.50
425	...	4.25	11.00	4.25	5.56	14.06	7.00
450	...	4.50	11.88	4.50	5.94	14.94	7.44
500	2.69	5.00	13.44	5.00	6.81	16.81	8.38
550	2.69	5.50	15.00	5.50	7.69	18.69	9.44
600	3.69	6.00 †	16.75	6.00	8.44	20.44	10.31
700	4.25	7.00	18.94	7.00	9.62	23.62	11.75
750	4.94	7.50	20.62	7.25	10.50	25.00	12.62
800	5.19	8.00	22.38	7.75	11.38	26.88	13.75
850	5.44	8.50	23.75	8.25	12.12	28.62	14.50
925	5.94	9.25	25.75	9.00	13.25	31.25	15.88
1000	6.50	10.00	28.25	9.50	14.50	33.50	17.50
1100	7.00	11.00	30.25	10.25	15.50	36.00	18.50
1200	7.50	12.00	33.38	11.00	17.06	39.06	20.25
1300	8.00	13.00	36.00	12.00	18.31	42.31	22.50
1550	8.50	15.50	39.25	14.50	19.44	48.44	26.00

## Materials and Specifications

- Hubs: Cast Iron is Standard - (Recommended for keyed shafting).  
Carbon or Alloy Steel - (Recommended for keyless shafting and hydraulic fits, consult Rexnord Engineering).
- Center Member: Sizes 162 - 750 are Cast Iron, Sizes 800 and larger are Cast Steel.
- Disc Packs: Tomaloy (Carbon Steel)  
T-Pack™ available 225 -750 sizes.  
Other materials such as Stainless Steel, Monel and Inconel are available, consult Rexnord Engineering.
- Bolts: SAE Grade 8 or ATSM A354 Grade BD.
- Angular Misalignment Rating: 1/3° per disc pack.
- Installation & Alignment Instructions: See [www.rexnord.com](http://www.rexnord.com)
- Torsional Data: Contact Rexnord Engineering
- Special Applications: For higher speeds, API requirements, special spacing, or higher torque requirements, consult Rexnord Engineering for Series 52 Type information.



## Engineering Data

Coupling Size	Max HP Per 100 RPM SF=1.0	Maximum Speed (RPM) ‡	Maximum Continuous Torque (lb-in)	Peak Overload Torque (lb-in) ◆	Weight (lb)▲	WR <sup>2</sup> ▲ (lb-in <sup>2</sup> )	Axial Capacity (inch)♥
162	9.1	2,500	5,740	6,888	8	18	± 0.036
200	17.5	2,500	11,030	13,236	16	57	± 0.036
225	24.7	2,500	15,575	18,690	20	76	± 0.036
262	33.4	2,500	21,038	25,245	32	162	± 0.043
312	37.5	2,500	23,650	28,380	47	365	± 0.051
350	83.8	2,300	52,800	63,360	71	659	± 0.056
375	126	2,200	79,442	95,330	92	1,025	± 0.062
425	140	2,000	88,000	105,600	117	1,590	± 0.067
450	216	1,900	136,125	163,350	144	2,250	± 0.072
500	319	1,800	200,750	240,900	212	4,240	± 0.082
550	436	1,800	275,055	330,066	290	7,220	± 0.092
600	569	1,800	358,875	430,650	389	12,000	± 0.102
700	724	1,500	456,500	547,800	587	22,800	± 0.115
750	1,023	1,500	644,930	773,916	722	33,900	± 0.125
800	1,291	1,200	813,780	976,536	938	55,600	± 0.136
850	1,426	1,100	898,700	1,078,440	1,150	75,600	± 0.144
925	2,033	1,000	1,281,280	1,537,536	1,400	102,000	± 0.156
1000	2,360	900	1,487,200	1,784,640	1,900	172,000	± 0.172
1100	3,246	800	2,046,000	2,455,200	2,280	245,000	± 0.183
1200	3,494	650	2,202,200	2,642,640	2,990	394,000	± 0.203
1300	3,787	600	2,387,000	2,864,400	3,900	561,000	± 0.218
1550	4,957	600	3,124,000	3,748,800	5,150	889,000	± 0.242



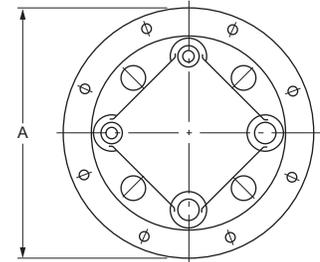
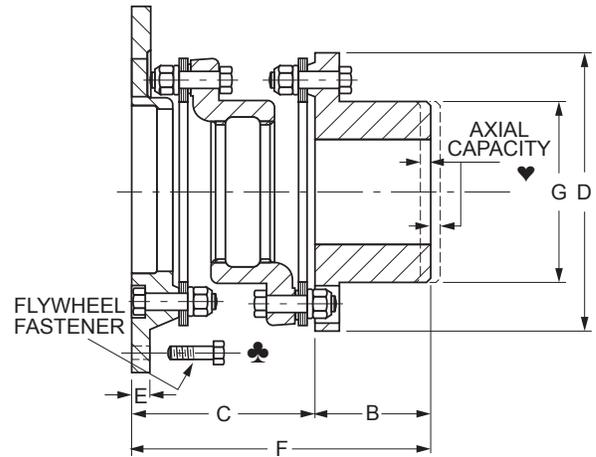
\* For minimum Rough Bores please contact Rexnord Engineering.  
 † Special hub available for size 600 with 6.75" maximum bore, contact Rexnord Engineering.  
 ♥ Thomas disc couplings meet NEMA MG1-14.37, 1-20.81, & 1-21.81 specifications without the addition of end-float restricting devices.  
 ‡ Consult Rexnord Engineering for higher speeds or see the SERIES 52 Style Coupling in our full line catalog.  
 ◆ The Peak Overload Torque rating is an infrequent torque overload limit and not an alternating or vibratory torque limit.  
 ▲ Weight and WR<sup>2</sup> values are based on maximum bores.

# Thomas Flexible Disc Couplings – CMR Flywheel Adapter Type

CMR couplings are used in heavy duty slow to medium speed applications, where high starting torques, shocks loads, torque reversals or continuous alternating torques are present. The open lug type center member provides ample clearance for assembly while minimizing the space required for coupling installation. These couplings are designed with a flywheel adapter plate which is intended to bolt directly to the flywheel of an engine, compressor, or other equipment. The adapter outside diameters are manufactured to fit accurately into a recess or female pilot in the equipment flywheel face.

## General Dimensions – Inches

Coupling Size	Rough Bore*	Max Bore	Min A Dia	B	C	D	E	F	G
162	...	1.62	6.25	1.75	3.31	4.56	0.31	5.06	2.75
200	...	2.00	7.38	2.12	3.88	5.75	0.38	6.00	3.62
225	...	2.25	7.62	2.50	3.88	6.00	0.38	6.38	3.88
262	...	2.62	8.50	2.88	4.44	6.88	0.44	7.31	4.50
312	...	3.12	9.50	3.38	5.31	8.12	0.50	8.69	5.44
350	...	3.50	10.88	3.75	5.88	9.12	0.50	9.62	6.00
375	...	3.75	11.88	4.00	6.62	10.06	0.56	10.62	6.50
425	...	4.25	13.12	4.25	7.18	11.00	0.62	11.38	7.00
450	...	4.50	14.75	4.50	7.62	11.88	0.69	12.12	7.44
500	2.69	5.00	16.00	5.00	8.75	13.44	0.75	13.75	8.38
550	2.69	5.50	18.00	5.50	9.88	15.00	0.88	15.38	9.44
600	3.69	6.00†	18.38	6.00	10.88	16.75	1.00	16.88	10.31
700	4.25	7.00	20.38	7.00	12.44	18.94	1.00	19.44	11.75
750	4.94	7.50	24.00	7.25	13.50	20.62	1.12	20.75	12.62
800	5.19	8.00	25.62	7.75	14.75	22.38	1.25	22.50	13.75
850	5.44	8.50	27.38	8.25	15.75	23.75	1.25	24.00	14.50
925	5.94	9.25	28.88	9.00	17.25	25.75	1.38	26.25	15.88
1000	6.50	10.00	31.62	9.50	18.56	28.25	1.62	28.06	17.50
1100	7.00	11.00	33.38	10.25	19.81	30.25	1.75	30.06	18.50
1200	7.50	12.00	37.50	11.00	21.56	33.88	2.00	32.56	20.25
1300	8.00	13.00	39.88	12.00	23.31	36.00	2.12	35.31	22.12
1550	8.50	15.50	43.62	14.50	23.75	39.25	2.12	38.25	26.00



## Engineering Data

Coupling Size	Max HP Per 100 RPM	Maximum Speed (RPM)‡	Maximum Continuous Torque (lb-in)	Peak Overload Torque (lb-in)♦	Weight (lb)▲	WR <sup>2</sup> ▲ (lb-in <sup>2</sup> )	Axial Capacity (inch)♥
162	9.1	2,500	5,740	6,888	8	27	± 0.036
200	17.5	2,500	11,030	13,236	12	68	± 0.036
225	24.7	2,500	15,575	18,690	16	83	± 0.036
262	33.4	2,500	21,038	25,245	25	178	± 0.043
312	37.5	2,500	23,650	28,380	39	367	± 0.051
350	83.8	2,300	52,800	63,360	56	630	± 0.056
375	126	2,200	79,442	95,330	77	1,040	± 0.062
425	140	2,000	88,000	105,600	101	1,780	± 0.067
450	216	1,900	136,125	163,350	126	2,470	± 0.072
500	319	1,800	200,750	240,900	178	4,310	± 0.082
550	436	1,800	275,055	330,066	245	7,700	± 0.092
600	569	1,800	358,875	430,650	321	11,500	± 0.102
700	724	1,500	456,500	547,800	481	21,200	± 0.115
750	1,023	1,500	644,930	773,916	610	34,300	± 0.125
800	1,291	1,200	813,780	976,536	800	58,700	± 0.136
850	1,426	1,100	898,700	1,078,440	975	73,300	± 0.144
925	2,033	1,000	1,281,280	1,537,536	1,180	107,000	± 0.156
1000	2,360	900	1,487,200	1,784,640	1,650	156,000	± 0.172
1100	3,246	800	2,046,000	2,455,200	1,950	247,000	± 0.183
1200	3,494	650	2,202,200	2,642,640	2,550	407,000	± 0.203
1300	3,787	600	2,387,000	2,864,400	3,320	567,000	± 0.218
1550	4,957	600	3,124,000	3,748,800	4,100	840,000	± 0.242

\* For minimum rough bores please contact Rexnord Engineering.

† Special hub available for Size 600 with 6.75" maximum bore. Contact Rexnord Engineering.

♥ Thomas disc couplings meet NEMA MG1-14.37, 1-20.81, & 1-21.81 specifications without the addition of end-float restricting devices.

♣ Flywheel fasteners are not supplied with this coupling. Contact equipment manufacturer for this hardware and tightening instructions.

‡ Maximum speeds are based on use with all standard available adapters. For larger sizes or higher speeds please consult Rexnord Engineering.

♦ The Peak Overload Torque rating is an infrequent torque overload limit and not an alternating or vibratory torque limit.

▲ Weight and WR<sup>2</sup> values are based on maximum bores and minimum adapter diameters listed above.

# Thomas Flexible Disc Couplings – CMR Flywheel Adapter Type

## Materials and Specifications

- Hubs: Cast Iron is Standard - (Recommended for keyed shafting).  
Carbon or Alloy Steel - (Recommended for keyless shafting and hydraulic fits, consult Rexnord Engineering).
- Center Member: Sizes 162 - 750 are Cast Iron, Sizes 800 and larger are Cast Steel.
- Flywheel Adapter: Cast Iron
- Disc Packs: Tomaloy (Carbon Steel)  
T-Pack™ available 225 -750 sizes.  
Other materials such as Stainless Steel, Monel and Inconel are available, consult Rexnord Engineering.
- Bolts: SAE Grade 8 or ATSM A354 Grade BD.
- Angular Misalignment Rating: 1/3° per disc pack.
- Installation & Alignment Instructions: See [www.rexnord.com](http://www.rexnord.com)
- Torsional Data: Contact Rexnord Engineering.
- Special Applications: For higher speeds, API requirements, special spacing, or higher torque requirements, see Series 44 adapter couplings on pages 6 and 7.



## Flywheel to Adapter Bolt Patterns

Standard "A" Diameter	Light Duty SAE Bolting			Heavy Duty Thomas Bolting		
	Bolt Circle	No. of Holes	Hole Diameter	Bolt Circle	No. of Holes	Hole Diameter
8.500	7.88	6	0.34	7.50	8	0.41
9.500	8.75	8	0.34	8.62	8	0.47
10.375	9.62	6	0.41	9.50	8	0.47
12.375	11.62	8	0.41	11.50	8	0.53
13.875	13.12	8	0.41	12.50	8	0.66
16.000	NA	NA	NA	14.38	8	0.78
18.375	17.25	8	0.53	16.75	8	0.78
20.375	19.25	8	0.53	18.50	8	0.91
22.500	21.38	6	0.66	20.50	8	1.03
26.500	25.25	12	0.66	24.50	12	1.03
28.875	27.25	12	0.78	26.88	12	1.03

All dimensions listed are in inches and bolt holes are equally spaced.

## Flywheel Adapter Information\*

Adapters can be furnished to accommodate most flange designs. Where possible, the user should select dimensions from the tables shown, as these represent industry standards that are more economical and readily available. Note that most sizes can be supplied with either SAE light duty bolting or Thomas heavy duty bolting. Contact Rexnord Engineering for special designs.

Coupling Size	Minimum Adapter "A" Dia (Pg 4)	Standard Available Adapter with Weight and WR <sup>2</sup> Adjustment										
		Weight and WR <sup>2</sup> adders listed below are to adjust values provided on page 4 at minimum adapter diameter										
		Standard Available Adapter Diameters (Actual OD Tolerance as Listed in Inches)										
		8.500 8.498	9.500 9.498	10.375 10.373	12.375 12.373	13.875 13.873	16.000 15.998	18.375 18.373	20.375 20.372	22.500 22.497	26.500 26.497	28.875 28.872
162	6.25	WT. + 2.10 WR <sup>2</sup> + 29.2	WT. + 3.24 WR <sup>2</sup> + 52.4	WT. + 4.34 WR <sup>2</sup> + 79.6	WT. + 7.22 WR <sup>2</sup> + 174							
200	7.38	WT. + 1.39 WR <sup>2</sup> + 21.9	WT. + 2.78 WR <sup>2</sup> + 50.3	WT. + 4.13 WR <sup>2</sup> + 83.7	WT. + 7.66 WR <sup>2</sup> + 199	WT. + 10.7 WR <sup>2</sup> + 331						
225	7.63	WT. + 1.09 WR <sup>2</sup> + 17.8	WT. + 2.49 WR <sup>2</sup> + 46.2	WT. + 3.84 WR <sup>2</sup> + 79.6	WT. + 7.37 WR <sup>2</sup> + 195	WT. + 10.4 WR <sup>2</sup> + 327						
262	8.50	WT. + 0 WR <sup>2</sup> + 0	WT. + 1.62 WR <sup>2</sup> + 32.8	WT. + 3.18 WR <sup>2</sup> + 71.5	WT. + 7.27 WR <sup>2</sup> + 205	WT. + 10.8 WR <sup>2</sup> + 358	WT. + 16.5 WR <sup>2</sup> + 677	WT. + 23.8 WR <sup>2</sup> + 1220				
312	9.50		WT. + 0 WR <sup>2</sup> + 0	WT. + 1.78 WR <sup>2</sup> + 43.9	WT. + 6.42 WR <sup>2</sup> + 195	WT. + 10.4 WR <sup>2</sup> + 369	WT. + 16.9 WR <sup>2</sup> + 732	WT. + 25.3 WR <sup>2</sup> + 1350	WT. + 33.2 WR <sup>2</sup> + 2,100	WT. + 42.5 WR <sup>2</sup> + 3,170		
350	10.88				WT. + 3.56 WR <sup>2</sup> + 121	WT. + 7.58 WR <sup>2</sup> + 295	WT. + 14.1 WR <sup>2</sup> + 658	WT. + 22.4 WR <sup>2</sup> + 1,280	WT. + 30.3 WR <sup>2</sup> + 2,020	WT. + 39.6 WR <sup>2</sup> + 3,090		
375	11.88				WT. + 1.39 WR <sup>2</sup> + 51.0	WT. + 5.89 WR <sup>2</sup> + 246	WT. + 13.2 WR <sup>2</sup> + 653	WT. + 22.5 WR <sup>2</sup> + 1,350	WT. + 31.4 WR <sup>2</sup> + 2,180	WT. + 41.8 WR <sup>2</sup> + 3,380		
425	13.12					WT. + 2.56 WR <sup>2</sup> + 117	WT. + 10.6 WR <sup>2</sup> + 568	WT. + 20.9 WR <sup>2</sup> + 1,330	WT. + 30.8 WR <sup>2</sup> + 2,260	WT. + 42.3 WR <sup>2</sup> + 3,590		
450	14.75						WT. + 5.42 WR <sup>2</sup> + 321	WT. + 16.9 WR <sup>2</sup> + 1,170	WT. + 27.8 WR <sup>2</sup> + 2,200	WT. + 40.7 WR <sup>2</sup> + 3,680	WT. + 68.3 WR <sup>2</sup> + 7,850	
500	16.00						WT. + 0 WR <sup>2</sup> + 0	WT. + 12.5 WR <sup>2</sup> + 928	WT. + 24.4 WR <sup>2</sup> + 2,040	WT. + 38.3 WR <sup>2</sup> + 3,650	WT. + 68.3 WR <sup>2</sup> + 8,190	WT. + 88.5 WR <sup>2</sup> + 12,100
550	18.00							WT. + 2.45 WR <sup>2</sup> + 203	WT. + 16.4 WR <sup>2</sup> + 1,510	WT. + 32.8 WR <sup>2</sup> + 3,400	WT. + 68.0 WR <sup>2</sup> + 8,720	WT. + 91.6 WR <sup>2</sup> + 13,300
600	18.38							WT. + 0 WR <sup>2</sup> + 0	WT. + 15.8 WR <sup>2</sup> + 1,490	WT. + 34.4 WR <sup>2</sup> + 3,630	WT. + 74.4 WR <sup>2</sup> + 9,680	WT. + 101 WR <sup>2</sup> + 14,800
700	20.38							WT. + 0 WR <sup>2</sup> + 0	WT. + 18.6 WR <sup>2</sup> + 2,140	WT. + 58.6 WR <sup>2</sup> + 4,190	WT. + 85.5 WR <sup>2</sup> + 13,300	WT. + 101 WR <sup>2</sup> + 14,800
750	24.00										WT. + 28.9 WR <sup>2</sup> + 4,610	WT. + 59.0 WR <sup>2</sup> + 10,400
800	25.62										WT. + 11.7 WR <sup>2</sup> + 1,990	WT. + 45.3 WR <sup>2</sup> + 8,430
850	27.38											WT. + 21.5 WR <sup>2</sup> + 4,260
925	28.88											WT. + 0 WR <sup>2</sup> + 0

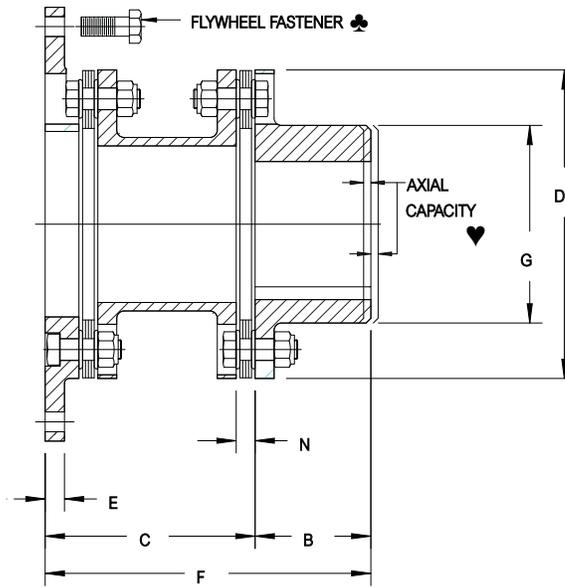
\* Weight adder values are given in pounds. WR<sup>2</sup> values are given in lb-in<sup>2</sup>. Industry standards do not exist for coupling Size 1000 & larger adapters. Contact Rexnord.



# Thomas Flexible Disc Couplings – Series 44 Flywheel Adapter Type

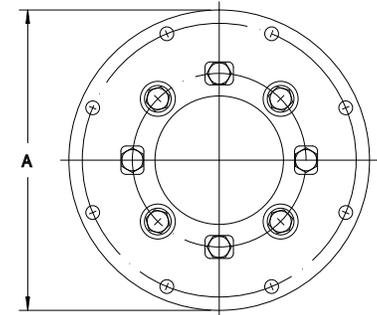
The SERIES 44 is an all steel fully machined flywheel adapter style coupling. It is used in heavy duty applications where high starting torque, shock loads, torque reversals, or alternating torques are present. This coupling is similar to the type CMR, but with the following benefits.

- Manufactured to meet API Specifications when properly selected and specified, please consult Rexnord Engineering Department.
- Dimension "C" and spool are adjustable to meet specific spacing requirements and/or make adjustment to torsional characteristics.
- The all steel design provides a higher Maximum Continuous and Peak Overload Torque rating.
- Fully machined components offer a higher operating speed and balancing level.



## General Dimensions – Inches

Coupling Size	Max Bore *	Min. A Dia.	B	Std. C	Min. C	D	E	F (Ref.)	G	N
350	4.00	10.88	3.75	5.88	5.15	8.69	0.50	9.63	5.88	0.54
375	4.50	11.88	4.00	6.62	5.71	9.69	0.56	10.62	6.50	0.59
425	4.75	13.12	4.25	7.18	6.15	10.50	0.62	11.43	7.00	0.62
450	5.13	14.75	4.50	7.62	6.71	11.31	0.69	12.12	7.44	0.71
500	5.38	16.00	5.00	8.75	7.53	12.88	0.75	13.75	8.38	0.78
550	6.00	18.00	5.50	9.88	8.53	14.44	0.88	15.38	9.44	0.91
600	6.50	18.38	6.00	10.88	9.36	16.00	1.00	16.88	10.25	0.98
700	7.50	20.38	7.00	12.44	10.68	18.25	1.00	19.44	11.75	1.20
750	8.00	24.00	7.50	13.50	11.58	19.81	1.12	21.00	12.62	1.27
800	8.75	25.62	8.25	14.75	12.68	21.50	1.25	23.00	13.62	1.34
850	9.25	27.38	8.75	15.75	13.59	23.00	1.25	24.50	14.50	1.40
925	10.12	28.88	9.50	17.25	14.56	25.00	1.38	26.75	15.75	1.50
1000	11.00	31.62	10.50	18.56	16.91	27.50	1.62	29.06	17.25	1.69



## Engineering Data

Coupling Size	Max HP Per 100 RPM SF=1.0	Maximum Speed (RPM) ‡		Maximum Continuous Torque (lb-in)	Peak Overload Torque (lb-in) ♦	Weight (lb) ▲	Weight Change Per Inch of "C" (lb)	WR <sup>2</sup> ▲ (lb-in <sup>2</sup> )	WR <sup>2</sup> Change Per Inch of "C" (lb-in <sup>2</sup> )	Axial Capacity (inch) ♥
		Not Balanced	Balanced							
350	92.2	3,200	10,500	58,080	116,160	51	0.83	588	4.82	± 0.056
375	135	3,000	9,400	85,000	170,000	70	1.03	994	7.21	± 0.062
425	150	2,800	8,700	94,500	189,000	93	1.42	1,560	11.68	± 0.067
450	216	2,700	8,100	136,125	272,250	120	1.47	2,450	13.72	± 0.072
500	319	2,500	7,100	200,750	401,500	177	2.29	4,340	27.17	± 0.082
550	494	2,300	6,300	311,430	622,860	259	2.88	8,090	42.75	± 0.092
600	624	2,150	5,700	393,325	786,650	325	3.35	11,835	61.50	± 0.102
700	793	1,950	5,000	499,870	999,740	490	4.86	22,435	108.00	± 0.115
750	1037	1,850	4,600	653,725	1,307,450	642	5.37	36,510	146.00	± 0.125
800	1387	1,750	4,300	874,000	1,748,000	803	5.54	54,155	199.00	± 0.136
850	1782	1,600	3,900	1,123,375	2,246,750	975	6.67	74,430	284.00	± 0.144
925	2450	1,500	3,600	1,544,400	3,088,800	1,289	8.49	113,780	413.00	± 0.156
1000	2813	1,500	3,250	1,773,200	3,546,400	1,655	8.54	173,840	506.00	± 0.172

♣ Flywheel fasteners are not supplied with this coupling. Contact equipment manufacturer for this hardware and tightening instructions.

♥ Thomas disc couplings meet NEMA MG1-14.37, 1-20.81, & 1-21.81 specifications without the addition of end-float restricting devices.

\* For minimum rough bores please contact Rexnord Engineering.

‡ Maximum speeds are based on use with all standard available adapters. For larger sizes or higher speeds please consult Rexnord Engineering.

♦ The Peak Overload Torque rating is an infrequent torque overload limit and not an alternating or vibratory torque limit.

▲ Weight and WR<sup>2</sup> values are based on maximum bores and minimum adapter diameters listed above.

# Thomas Flexible Disc Couplings – Series 44 Flywheel Adapter Type

## Materials and Specifications

- Hubs: Carbon Steel is Standard  
Alloy Steel is available (consult Rexnord Engineering for higher interference and hydraulic fits).
- Center Members: Carbon Steel is standard.
- Flywheel Adapter: Carbon Steel
- Disc Packs: Tomaloy (Carbon Steel).
- T-Pack™ available 225 -750 sizes.  
Other materials such as Stainless Steel, Inconel and Monel are available, Consult Rexnord Engineering.
- Bolts: SAE Grade 8 or ATSM A354 Grade BD.
- Angular Misalignment Rating: 1/3° per disc pack.
- For Installation and Alignment Instructions: see at [www.rexnord.com](http://www.rexnord.com).
- Torsional Data: Contact Rexnord Engineering.

## Flywheel to Adapter Bolt Patterns

Std "A" Diameter	Light Duty SAE Bolting			Heavy Duty Thomas Bolting		
	Bolt Circle	No. of Holes	Hole Diameter	Bolt Circle	No. of Holes	Hole Diameter
12.375	11.62	8	0.41	11.50	8	0.53
13.875	13.12	8	0.41	12.50	8	0.66
16.000	N/A	N/A	N/A	14.38	8	0.78
18.375	17.25	8	0.53	16.75	8	0.78
20.375	19.25	8	0.53	18.50	8	0.91
22.500	21.38	6	0.66	20.50	8	1.03
26.500	25.25	12	0.66	24.50	12	1.03
28.875	27.25	12	0.78	26.88	12	1.03

All dimensions listed are in inches and bolt holes are equally spaced.



## Flywheel Adapter Information \*

Adapters can be furnished to accommodate most flange designs. Where possible, the user should select dimensions from the tables shown, as these represent industry standards that are more economical and readily available. Note that most sizes can be supplied with either SAE light duty bolting or Thomas heavy duty bolting. Contact Rexnord Engineering for special designs.

Standard Available Adapter with Weight and WR <sup>2</sup> Adjustment									
Coupling Size	Minimum Adapter "A" Dia (Pg 6)	Weight and WR <sup>2</sup> adders listed below are to adjust values provided on page 6 at minimum adapter diameters							
		Standard Available Adapter Diameters (Actual OD Tolerance as Listed in Inches)							
		12.375 12.373	13.875 13.873	16.000 15.998	18.375 18.373	20.375 20.372	22.500 22.497	26.500 26.497	28.875 28.872
350	10.88	WT. + 3.88	WT. +8.25	WT. + 15.3	WT. + 24.4	WT. + 33	WT. + 43.1		
		WR <sup>2</sup> + 132	WR <sup>2</sup> + 320	WR <sup>2</sup> + 716	WR <sup>2</sup> + 1,391	WR <sup>2</sup> + 2,200	WR <sup>2</sup> + 3,365		
375	11.88	WT. + 1.51	WT. + 6.41	WT. + 14.3	WT. + 24.5	WT. + 34.1	WT. + 45.5		
		WR <sup>2</sup> + 56	WR <sup>2</sup> + 267	WR <sup>2</sup> + 710	WR <sup>2</sup> + 1,466	WR <sup>2</sup> + 2,371	WR <sup>2</sup> + 3,681		
425	13.12	WT. + 2.79	WT. + 11.5	WT. + 22.8	WT. + 33.5	WT. + 46			
		WR <sup>2</sup> + 127	WR <sup>2</sup> + 616	WR <sup>2</sup> + 1,453	WR <sup>2</sup> + 2,460	WR <sup>2</sup> + 3,901			
450	14.75			WT. + 5.89	WT. + 18.4	WT. + 30.3	WT. + 44.3	WT. + 74.3	
				WR <sup>2</sup> + 349	WR <sup>2</sup> + 1,277	WR <sup>2</sup> + 2,396	WR <sup>2</sup> + 4,008	WR <sup>2</sup> + 8,543	
500	16.00			WT. + 0	WT. + 13.6	WT. + 26.5	WT. + 41.7	WT. + 74.4	WT. + 96.3
				WR <sup>2</sup> + 127	WR <sup>2</sup> + 1,009	WR <sup>2</sup> + 2,223	WR <sup>2</sup> + 3,973	WR <sup>2</sup> + 8,912	WR <sup>2</sup> + 13,118
550	18.00			WT. + 0	WT. + 2.67	WT. + 17.8	WT. + 35.6	WT. + 74	WT. + 99.7
				WR <sup>2</sup> + 0	WR <sup>2</sup> + 221	WR <sup>2</sup> + 1,645	WR <sup>2</sup> + 3,695	WR <sup>2</sup> + 9,493	WR <sup>2</sup> + 14,429
600	18.38				WT. + 0	WT. + 17.2	WT. + 37.5	WT. + 81	WT. + 110
					WR <sup>2</sup> + 0	WR <sup>2</sup> + 1,618	WR <sup>2</sup> + 3,956	WR <sup>2</sup> + 10,529	WR <sup>2</sup> + 16,107
700	20.38				WT. + 0	WT. + 20.3	WT. + 63.8	WT. + 93	
					WR <sup>2</sup> + 0	WR <sup>2</sup> + 2,338	WR <sup>2</sup> + 8,911	WR <sup>2</sup> + 14,519	
750	24.00						WT. + 31.4	WT. + 64.2	
								WR <sup>2</sup> + 5,017	WR <sup>2</sup> + 11,313
800	25.62						WT. + 12.7	WT. + 49.2	
								WR <sup>2</sup> + 2,157	WR <sup>2</sup> + 9,156
850	27.38							WT. + 23.4	
									WR <sup>2</sup> + 4,631
925	28.88							WT. + 0	
									WR <sup>2</sup> + 0
1000	31.62	No industry standards exist for adapters to fit couplings this size or larger. Consult Rexnord Engineering Department.							

\* Weight adder values are given in pounds. WR<sup>2</sup> values are given in lb-in<sup>2</sup>. Industry standards do not exist for coupling Size 1000 & larger adapters. Contact Rexnord.

# World Class Customer Service

For more than 100 years, the dedicated people of Rexnord have delivered excellence in quality and service to our customers around the globe. Rexnord is a trusted name when it comes to providing skillfully engineered products that improve productivity and efficiency for industrial applications worldwide. We are committed to exceeding customer expectations in every area of our business: product design, application engineering, operations, and customer service.

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