

Rexnord Thomas AMR/CMR 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 AMR/CMR

The Thomas® AMR/CMR Couplings are used in heavy duty slow to medium speed applications where shock loads, torque reversals or continuous alternating torque is present. The rugged design is industry-proven, and specified where reliable performance is a must, such as reciprocating compressor applications. Both AMR and CMR types offer a wide range of mounting configurations including keyed, keyless, straight bore, taper bore, and hydraulic fit shaft hubs; while CMR additionally allows bolting directly to the flywheel of an engine or compressor.

Design features include:

- Robust and economical components with standard cast spacer and forged steel hubs
- Open lug-type spacer adds wrenching clearance for hassle-free assembly
- Flywheel adapter plate available in standard and custom bolting patterns to accommodate virtually any flange design
- Flexibility to accommodate multiple disc pack design and material options

Applications:

- Compressors
- Mill drives
- Conveyors
- Crushers
- Generators
- Diesel engine drives

Industry Compliant:

- ATEX II 2G c T5



ATEX II 2GD c T5

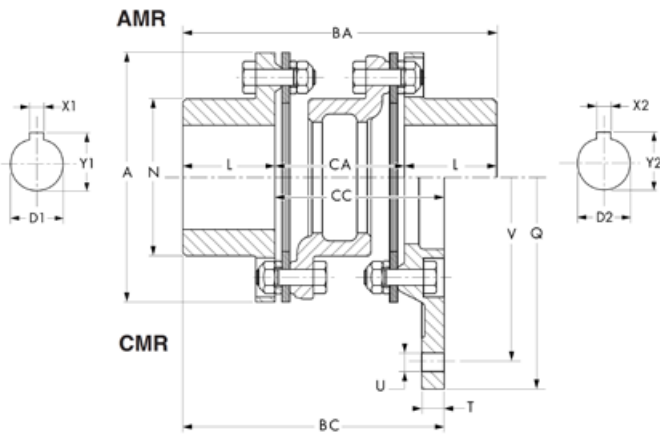
Special design options:

- Mechanical clamping hubs
- Hydraulic shaft-hub connections
- Fully-machined steel spacers
- Bolt-on or integrated inertia rings



Thomas AMR

Thomas CMR



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

Q std inch	U		V		U		V	
	Light duty S.A.E. (4)				Heavy duty Thomas (4)			
	inch		mm		inch		mm	
8 ^{1/2}	6 x 8,7	7 ^{7/8}	200,0	8 x 10,3	7 ^{1/2}	190,50		
9 ^{1/2}	8 x 8,7	8 ^{3/4}	222,3	8 x 11,9	8 ^{5/8}	219,80		
10 ^{3/8}	6 x 10,3	9 ^{5/6}	249,8	8 x 11,9	9 ^{1/2}	241,30		
12 ^{3/8}	8 x 10,3	11 ^{5/8}	295,3	8 x 13,5	11 ^{1/2}	292,10		
13 ^{7/8}	8 x 10,3	13 ^{1/8}	333,4	8 x 16,7	12 ^{1/2}	317,50		
16	-	-	-	8 x 19,8	14 ^{3/8}	365,13		
18 ^{3/8}	8 x 13,5	17 ^{1/4}	438,2	8 x 19,8	16 ^{3/4}	425,45		
20 ^{3/8}	8 x 13,5	19 ^{1/4}	489,0	8 x 23,0	18 ^{1/2}	469,90		
22 ^{1/2}	6 x 16,7	21 ^{3/8}	542,9	8 x 26,2	20 ^{1/2}	520,70		
26 ^{1/2}	12 x 16,7	25 ^{1/4}	641,4	12 x 26,2	24 ^{1/2}	622,30		
28 ^{7/8}	12 x 19,8	27 ^{1/4}	692,2	12 x 26,2	26 ^{7/8}	682,63		

Size mm	Dim. Q										
	215,9	241,3	263,5	314,3	352,4	406,4	466,7	517,5	571,5	673,1	733,4
Size inch	8 ^{1/2}	9 ^{1/2}	10 ^{3/8}	12 ^{3/8}	13 ^{7/8}	16	18 ^{3/8}	20 ^{3/8}	22 ^{1/2}	26 ^{1/2}	28 ^{7/8}
162	✓	✓	✓	✓							
200	✓	✓	✓	✓	✓						
225	✓	✓	✓	✓	✓						
262	✓	✓	✓	✓	✓	✓	✓				
312		✓	✓	✓	✓	✓	✓	✓	✓		
350				✓	✓	✓	✓	✓	✓		
375				✓	✓	✓	✓	✓	✓		
425					✓	✓	✓	✓	✓		
450						✓	✓	✓	✓	✓	
500						✓	✓	✓	✓	✓	✓
550							✓	✓	✓	✓	✓
600							✓	✓	✓	✓	✓
700								✓	✓	✓	✓
750										✓	✓
800										✓	✓
850											✓

For larger sizes please contact Rexnord

Size	Max Continuous Torque (Nm)	n _{max} min ⁻¹	D1 D2 min.	D1 D2 max. (*)	A	BA	BC	CA	CC	L	N	Q min.	T	J AMR kgm ² (**)	J CMR kgm ² (**)	m AMR kg (**)	m CMR kg (**)
162	648	2 500	0	50	117	156	129	66,7	84,1	44	70	159	7,9	0,006	0,008	4,0	3,6
200	1 245	2 500	0	60	146	184	152	76,2	98,4	54	92	187	9,5	0,016	0,020	6,4	5,4
225	1 758	2 500	0	70	152	203	162	76,2	98,4	64	98	194	9,5	0,021	0,038	8,5	7,3
262	2 375	2 500	0	85	175	235	186	88,9	113,7	73	114	216	11,1	0,043	0,055	12,5	11,8
312	2 670	2 500	0	95	206	276	221	104,8	134,9	86	138	241	12,7	0,108	0,114	22,0	18,1
350	5 961	2 300	0	110	232	306	244	115,9	149,2	95	152	276	12,7	0,183	0,184	30,5	25,4
375	8 968	2 200	0	120	256	333	270	130,2	168,3	102	165	302	14,3	0,299	0,304	41,5	34,9
425	9 935	2 000	0	130	280	357	289	141,3	181,0	108	178	333	15,9	0,468	0,521	53,5	45,8
450	15 367	1 900	0	140	302	379	308	150,8	193,7	114	189	375	17,5	0,626	0,723	64,4	57,2
500	22 663	1 800	68	145	341	427	349	173,0	222,2	127	213	406	19,1	1,24	1,393	91,6	81,6
550	31 052	1 800	68	166	381	475	391	185,3	250,8	140	240	457	22,2	2,02	2,253	126	111
600	40 514	1 800	94	170	425	519	429	214,3	276,3	152	262	467	25,4	3,22	3,599	170	150
700	51 535	1 500	108	175	481	600	494	244,5	315,9	178	298	518	25,4	6,29	6,818	260	227
750	72 808	1 500	125	190	524	635	527	266,7	342,9	184	321	610	28,6	9,45	10,036	310	277
800	91 869	1 200	132	200	568	683	572	288,9	374,7	197	349	651	31,8	17,15	17,176	405	363
850	101 456	1 100	138	215	603	727	610	308,0	400,0	210	368	695	31,8	20,25	21,448	500	442
925	144 647	1 000	151	235	654	794	667	336,6	438,2	229	403	734	34,9	31	31,31	630	535
1000	167 894	900	165	254	718	851	713	368,0	471,0	241	445	803	41,1	52	47	855	743
1100	230 978	800	178	279	768	914	764	394,0	503,0	260	470	848	44,5	74	75	1026	878
1200	248 612	650	191	305	848	992	827	433,0	548,0	279	514	953	50,8	120	124	1346	1 148
1300	269 475	600	203	330	914	1075	897	465,0	592,0	305	572	1013	53,8	171	172	1755	1 494
1550	352 676	600	216	394	997	1230	972	494,0	603,0	368	660	1108	53,8	270	255	2318	1 845

* Maximum bores for keyways as per ISO R773

** Weight (m) and inertia (J) for maximum bore and minimum adapter diameter