

Rexnord® Addax®

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:

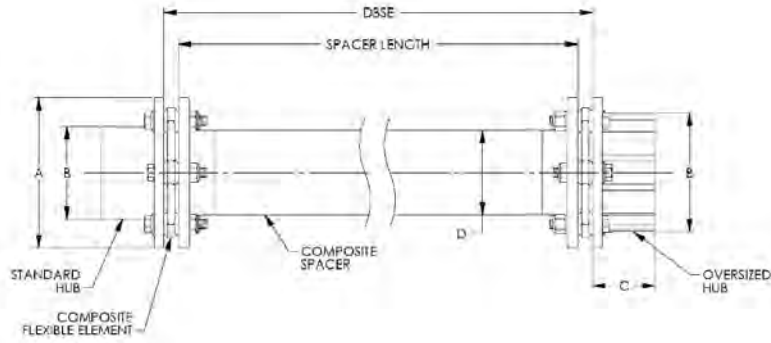
- ▶ cooling towers
- ▶ verticle pumps

Rexnord® Addax® Cooling Tower Coupling

With more than 50,000 Addax® couplings installed around the world, Rexnord has the most experience of any composite cooling tower coupling manufacturer. The Rexnord® Addax® coupling provides the best value with corrosion resistance, high misalignment, fatigue resistance, low weight and ease of installation.



EX II 2G T5
(Contact Rexnord)



General Dimensions.

Model Series	SPACER & FLANGE MATERIAL	MAX DBSE @ 1780 RPM @ 1.15 SF	MAX DBSE @ 1480 RPM @ 1.15 SF	MAX BORE	A	B	C	D	MIN DBSE	MIN BORE
		(in) mm	(in) mm	(in) mm		Standard Oversized	Standard Oversized			
350.275	F	(95) / 2 413	(106) / 2 692	(2,13) / 55	(5,25) / 133	(3,06) / 78	(1,81) / 46	(2,75) / 70	(5,4) / 137	(0,63) / 16
	A	(107) / 2 718	(119) / 3 023	(2,38) / 65		(4) / 102	(2,6) / 66			
	R	(114) / 2 896	(126) / 3 200							
375.275	F	(95) / 2 413	(106) / 2 692	(2,13) / 55	(5,25) / 133	(3,06) / 78	(1,81) / 46	(2,75) / 70	(5,4) / 137	(0,63) / 16
	A	(107) / 2 718	(119) / 3 023	(2,38) / 65		(4) / 102	(2,6) / 66			
	R	(114) / 2 896	(126) / 3 200							
450.275	F	(95) / 2 413	(106) / 2 692	(2,13) / 55	(5,25) / 133	(3,15) / 80	(1,81) / 46	(2,75) / 70	(5,4) / 137	(0,63) / 16
	A	(107) / 2 718	(119) / 3 023	(2,25) / 55		(4) / 102	(2,63) / 67			
	R	(114) / 2 896	(126) / 3 200	(3,00) / 75						
485.338	F	(100) / 2 540	(113) / 2 870		(6,00) / 152			(3,38) / 86	(8,0) / 203	(0,87) / 22
	A	(116) / 2 946	(127) / 3 226	(2,63) / 70		(3,72) / 94	(2,5) / 63,5			
	R	(127) / 3 226	(140) / 3 556	(3,38) / 85		(4,75) / 121	(2,75) / 70			
485.425	R	(141) / 3 581	(154) / 3 912	(3,38) / 85	(6,75) / 171	(5,15) / 133	(2,75) / 70	(4,25) / 108	(8,0) / 203	(1,00) / 25
	X	(154) / 3 912	(169) / 4 293							
485.625	R	(170) / 4 318	(189) / 4 800					(6,25) / 159	(9,5) / 241	
650.425	A	(133) / 3 378	(148) / 3 759		(6,75) / 171	(5,15) / 133	(2,56) / 65	(4,25) / 108	(6) / 152	(1,00) / 25
	R	(141) / 3 581	(154) / 3 912	(3,13) / 80						
	X	(154) / 3 912	(169) / 4 293							
650.625	R	(170) / 4 318	(189) / 4 800	(4,01) / 100	(9,0) / 229	(5,8) / 147	(2,75) / 70	(6,25) / 159	(9,5) / 241	(1,00) / 25
	X	(186) / 4 725	(208) / 5 283							
650.825	R	(193) / 4 902	(215) / 5 461		(9,0) / 229	(5,8) / 147	(2,75) / 70	(8,25) / 210	(9,5) / 241	(1,00) / 25
	X	(209) / 5 309	(232) / 5 893							
850.625	A	(157) / 3 988	(172) / 4 369	std short	(9,0) / 229	(5,8) / 147	std short	(6,25) / 159	(14,2) / 361	(1,00) / 25
	R	(170) / 4 318	(189) / 4 800	(3,125) / 75						
	X	(186) / 4 725	(208) / 5 283	std long						
850.825	R	(193) / 4 902	(215) / 5 461	(4,13) / 105	(9,0) / 229	(5,8) / 147	(3,31) / 84,1	(8,25) / 210	(14,2) / 361	(1,00) / 25
	X	(209) / 5 309	(232) / 5 893	oversized						
850.1025	X	(229) / 5 817	(253) / 6 426	(5,06) / 130		oversized	oversized	(10,25) / 260		
850.1275	X	(245) / 6 223	(275) / 6 985			(7,5) / 191	(3,5) / 89	(12,75) / 324		

F = Fiberglass A = Amalgamation (carbon fiber & fiberglass) R = Standard carbon fiber X = Special carbon fiber

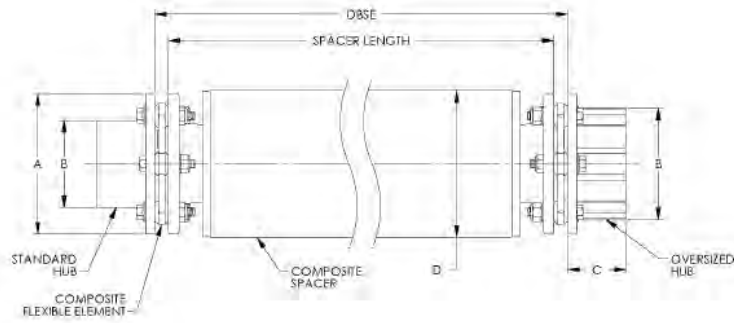
Selection Process.

$$\text{System Torque (Nm)} = \frac{\text{kW} * 9549}{\text{rpm}} * 2.0$$

CTI recommends a service factor of 2.0 for cooling tower applications

Consult general dimension chart for maximum span using 1.15 safety factor

Consult general dimension chart for maximum bore size



Engineering Data.

Model Series	CONTINUOUS TORQUE @ 1,0 SF	PEAK OVERLOAD TORQUE	SPACER & FLANGE MATERIAL	Weight @ MIN DBSE	WR ² @ MIN DBSE	WT CHANGE PER LENGTH	WR ² CHANGE PER LENGTH
UNITS OF MEASURE	(in-lb) Nm	(in-lb) Nm		(lbs) kg	(lb-in ²) kg-m ²	(lb/in) kg/m	(lb-in ² /in) kg-m ² /m
350,275	(3 617) 408	(5 425) 613	F	(13,8)	(32)	(0,07) / 1,5	(0,13) / 0,0015
			A	6,2	0,0093	(0,06) / 1,2	(0,11) / 0,0013
			R			(0,06) / 1,1	(0,10) / 0,0012
375,275	(5 311) 600	(7 967) 900	F	(13,8)	(32)	(0,07) / 1,5	(0,13) / 0,0015
			A	6,2	0,0093	(0,06) / 1,2	(0,11) / 0,0013
			R			(0,06) / 1,1	(0,10) / 0,0012
450,275	(7 250) 820	(10 875) 1 229	F	(12,9)	(32)	(0,07) / 1,5	(0,13) / 0,0015
			A	5,9	0,0092	(0,06) / 1,2	(0,11) / 0,0013
			R			(0,06) / 1,1	(0,10) / 0,0012
			X			(0,06) / 1,2	(0,10) / 0,0012
485,338	(11 000)	(16 500)	F	(23,4)	(47)	(0,09) / 1,8	(0,24) / 0,0029
			A	10,6	0,014	(0,08) / 1,5	(0,21) / 0,0024
			R			(0,07) / 1,4	(0,19) / 0,0022
485,425	1 243	1 864	R	(24,0)	(74)	(0,09) / 1,7	(0,38) / 0,0044
X			10,9	0,022	(0,09) / 1,8	(0,39) / 0,0045	
485,625			R	(26,5) / 12,0	(92) / 0,027	(0,13) / 2,6	(1,2) / 0,015
650,425	(18 275)	(27 415)	A	(31,5)	(122)	(0,10) / 1,9	(0,42) / 0,0049
			R	14,3	0,036	(0,089) / 1,7	(0,38) / 0,0044
			X			(0,092) / 1,8	(0,39) / 0,005
650,625	2 065	3 097	R	(34,4)	(141)	(0,13) / 2,6	(1,2) / 0,014
X			15,6	0,041	(0,14) / 2,7	(1,3) / 0,015	
650,825			R	(37,9)	(194)	(0,18) / 3,4	(2,9) / 0,033
			X	17,2	0,056	(0,18) / 3,6	(3,0) / 0,035
850,625			A	(63,6)	(440)	(0,15) / 2,9	(1,4) / 0,016
			R	28,8	0,130	(0,13) / 2,6	(1,2) / 0,014
			X			(0,14) / 2,7	(1,3) / 0,015
850,825	(36 200) 4 090	(54 300) 6 135	R	(68,5)	(512)	(0,18) / 3,4	(2,9) / 0,033
			X	31,0	0,15	(0,18) / 3,6	(3,0) / 0,035
850,1025			X	(74,8) / 33,9	(657) / 0,19	(0,23) / 4,4	(5,8) / 0,067
850,1275			X	(78,4) / 35,6	(768) / 0,22	(0,28) / 5,5	(11,3) / 0,13

The standard weight and WR2 values are at minimum DBSE and standard minimum bore for a complete assembly. To determine the total weight or inertia subtract the minimum DBSE from the total DBSE required and multiply that value times the WT and/or WR2 change per length then add that calculated WT or WR2 to the minimum DBSE values. Values may vary slightly depending on your actual bore and key size.

Ordering Instruction.

L	R	F, A, R, X	Table	Table	Stainless	S=stainless M=monel				
Longspan	Reinforced	Spacer and Flange Material	Model	Series	S	Hub Material	Hardware Material	DBSE	Bore 1	Bore 2



Rexnord® Addax®

Features

- ▶ Low weight
- ▶ High strength to weight ratio
- ▶ Corrosion resistant
- ▶ Low coefficient of thermal expansion

- ▶ Continuous fiber composite spacer flange
- ▶ Unitized flex element
High misalignment capacity

Benefits

- ▶ Ease of installation
- ▶ Reduced vibration
- ▶ Extended service life
- ▶ Dimensional stability
Reduced stresses
- ▶ Infinite fatigue life
Low cost of ownership
- ▶ Reduced maintenance

- ▶ Addax® was the first advanced composite cooling tower coupling introduced in 1987.
- ▶ Addax® coupling systems are installed and in service world wide.
- ▶ Choose a Rexnord® Addax® Composite Coupling as YOUR cooling tower coupling if you are currently using a steel coupling or an alternative composite coupling.



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