



Rexnord™ Addax™ Composite Coupling



Rexnord™ Addax™ Composite 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. Regal Rexnord provides superior products for your industrial applications worldwide. We work closely with you to reduce maintenance costs, eliminate redundant inventories, and prevent equipment downtime.

REXNORD ADDAX

Rexnord pioneered and introduced the first advanced composite couplings to the cooling tower industry in 1987. With over 100,000 Rexnord Addax composite couplings installed on every continent around the world over the past 35 years, Rexnord has the most experience of any composite cooling tower manufacturer. The Rexnord Addax composite cooling tower coupling delivers the best value for the cooling tower industry by providing excellent features such as corrosion resistance, high-misalignment capacity, excellent fatigue resistance, low weight, and ease of installation.

Design features include:

- Corrosion-resistant center member, flex element, hub, and hardware lowering the cost of ownership and extending service life
- Low weight allowing easy installation
- High strength to weight ratio providing reduced vibration
- Low coefficient of thermal expansion giving dimensional stability and reduced stresses
- Continuous fiber composite spacer flange resulting in infinite fatigue life and low cost of ownership
- Unitized flex element and high misalignment capacity for reduced maintenance

APPLICATIONS:

- Cooling towers
- Vertical pumps

SPECIAL DESIGN OPTIONS:

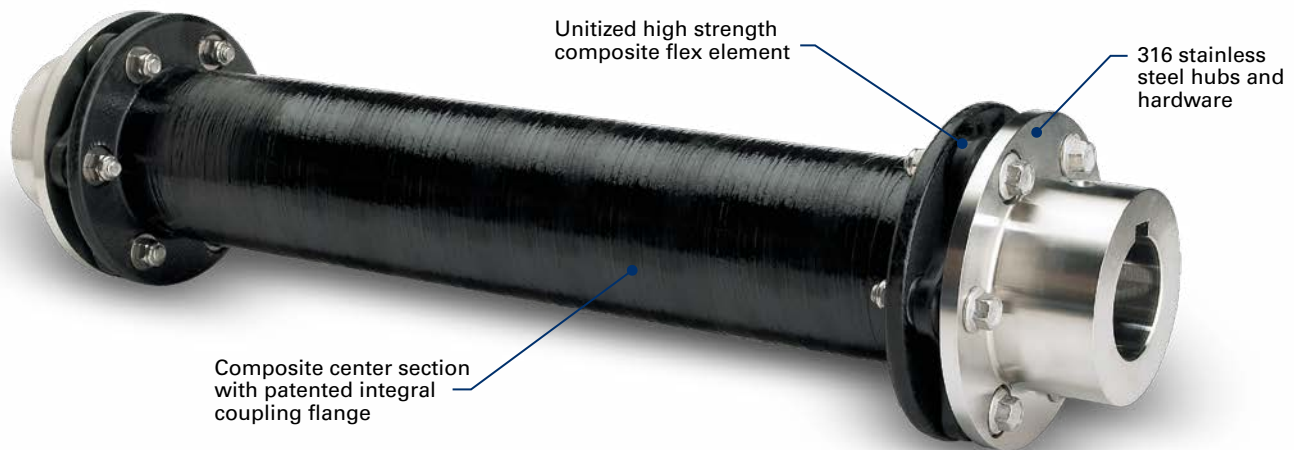
- Brake disc
- Backstop
- Spark resistant

INDUSTRY COMPLIANT:

- ISO 14691
- ATEX II 2G c T5



ATEX II 2GD c T5

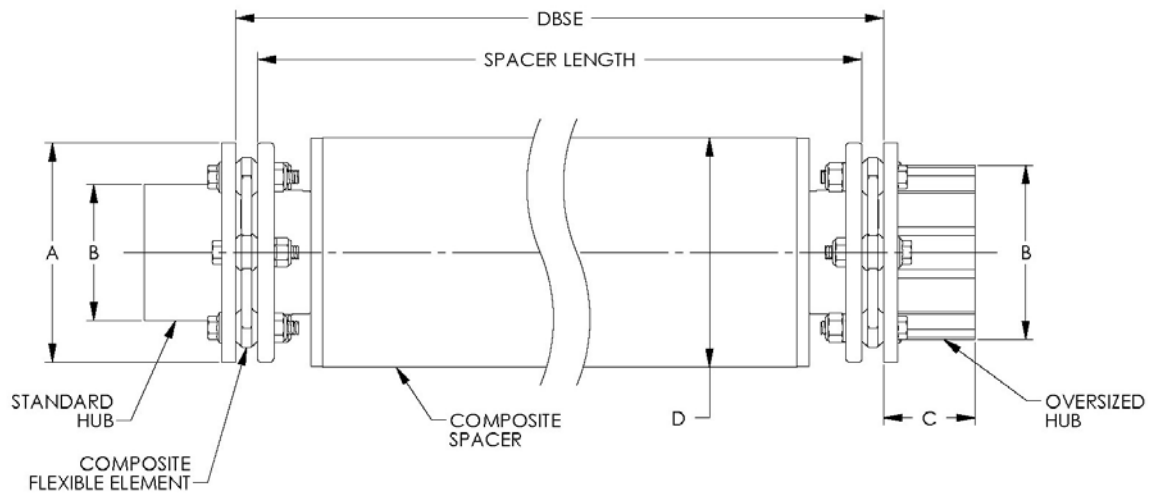


Unitized high strength
composite flex element

316 stainless
steel hubs and
hardware

Composite center section
with patented integral
coupling flange

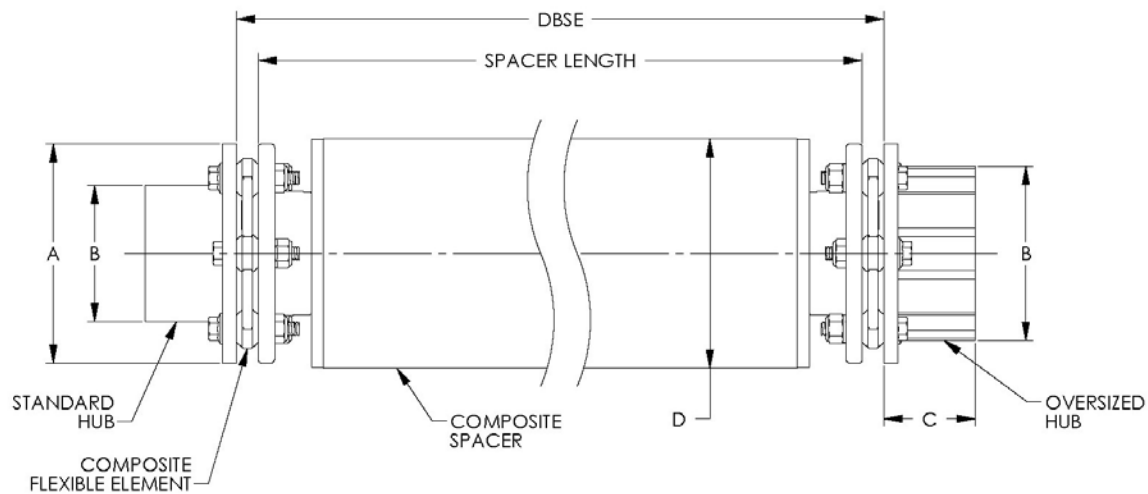
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Model Series	Spacer & Flange Material	Continuous Torque @ 1.0 SF	Peak Overload Torque	Weight @ Min DBSE	WR ² @ Min DBSE	Weight change per length	WR ² change per length
		(in-lb) / Nm	(in-lb) / Nm	(lbs) / kg	(lb-in ²) / kgm ²	(lb/in) / kg/m	(lb-in ² /in) / kgm ² /m
350.275	LRF	(3 617) / 408	(5 425) / 613	(13,8) / 6,2	(32) / 0,0093	(0,07) / 1,5	(0,13) / 0,0015
	LRA					(0,06) / 1,2	(0,11) / 0,0013
	LRR					(0,06) / 1,1	(0,10) / 0,0012
375.275	LRF	(5 311) / 600	(7 967) / 900	(13,8) / 6,2	(32) / 0,0093	(0,07) / 1,5	(0,13) / 0,0015
	LRA					(0,06) / 1,2	(0,11) / 0,0013
	LRR					(0,06) / 1,1	(0,10) / 0,0012
450.275	LRF	(7 250) / 820	(10 875) / 1 229	(12,9) / 5,9	(32) / 0,0093	(0,07) / 1,5	(0,13) / 0,0015
	LRA					(0,06) / 1,2	(0,11) / 0,0013
	LRR					(0,06) / 1,1	(0,10) / 0,0012
	LRX					(0,06) / 1,2	(0,10) / 0,0012
485.338	LRF	(11 000) / 1 243	(16 500) / 1 864	(23,4) / 10,6	(47) / 0,014	(0,09) / 1,8	(0,24) / 0,0029
	LRA					(0,08) / 1,5	(0,21) / 0,0024
	LRR					(0,07) / 1,4	(0,19) / 0,0022
485.425	LRR	(11 000) / 1 243	(16 500) / 1 864	(24,0) / 10,9	(74) / 0,022	(0,09) / 1,7	(0,38) / 0,0044
	LRX					(0,09) / 1,8	(0,39) / 0,0045
485.625	LRR	(11 000) / 1 243	(16 500) / 1 864	(26,5) / 12,0	(92) / 0,027	(0,13) / 2,6	(1,2) / 0,015
650.425	LRA	(18 275) / 2 065	(27 415) / 3 097	(31,5) / 14,3	(122) / 0,036	(0,10) / 1,9	(0,42) / 0,0049
	LRR					(0,089) / 1,7	(0,38) / 0,0044
	LRX					(0,092) / 1,8	(0,39) / 0,005
650.625	LRR	(18 275) / 2 065	(27 415) / 3 097	(34,4) / 15,6	(141) / 0,041	(0,13) / 2,6	(1,2) / 0,014
	LRX					(0,14) / 2,7	(1,3) / 0,015
650.825	LRR	(18 275) / 2 065	(27 415) / 3 097	(37,9) / 17,2	(194) / 0,056	(0,18) / 3,4	(2,9) / 0,033
	LRX					(0,18) / 3,6	(3,0) / 0,035
850.625	LRA	(36 200) / 4 090	(54 300) / 6 135	(63,6) / 28,8	(440) / 0,130	(0,15) / 2,9	(1,4) / 0,016
	LRR					(0,13) / 2,6	(1,2) / 0,014
	LRX					(0,14) / 2,7	(1,3) / 0,015
850.825	LRR	(36 200) / 4 090	(54 300) / 6 135	(68,5) / 31,0	(512) / 0,15	(0,18) / 3,4	(2,9) / 0,033
	LRX					(0,18) / 3,6	(3,0) / 0,035
850.1025	LRX	(36 200) / 4 090	(54 300) / 6 135	(74,8) / 33,9	(657) / 0,19	(0,23) / 4,4	(5,8) / 0,067
850.1275	LRX	(36 200) / 4 090	(54 300) / 6 135	(78,4) / 35,6	(768) / 0,22	(0,28) / 5,5	(11,3) / 0,13

The standard weight and inertia (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.

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SELECTION PROCESS

Min. Coupling Design Torque (Nm) = $\frac{\text{kW} * 9549}{\text{rpm}}$ * Service Factor

- 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

ORDERING INSTRUCTION

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



REXNORD™

Regal Rexnord

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regalrexnord.com

The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>.

To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale>

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