Morskate®

REXNORD
PRECISION. POWER. PERFORMANCE.

Rexnord® Addax®

Features	Benefits
Low weight	Ease of installation
High strength to weight ratio	Reduced vibration
Corrosion resistant	Extended service life
Low coefficient of thermal expansion	Dimensional stability Reduced stresses
Continuous fiber composite spacer flange	Infinite fatigue life Low cost of ownership
Unitized flex element	Reduced maintenance
High misalignment capacity	

- 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.

REXNORD

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Rexnord® Addax®

Precision. Power. Performance.

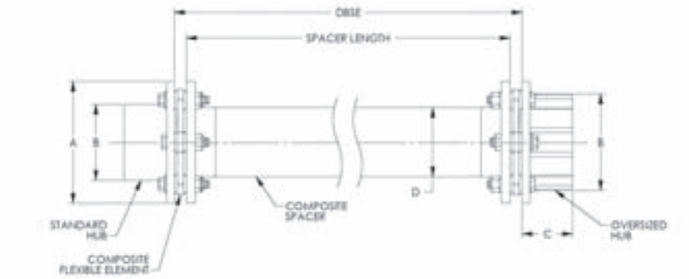
You want a trusted name when it comes to providing engineered power transmission products that improve productivity and efficiency. Rexnord provides superior products for your industrial applications world wide. We work closely with you to reduce maintenance costs, eliminate redundant inventories and prevent equipment downtime.

Applications include:

- cooling tower
- 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.



General Dimensions.

Model Series	SPACER & FLANGE MATERIAL	MAX DBSE @ 1780 RPM @ 1.15 SF	MAX DBSE @ 1480 RPM @ 1.15 SF	MAX BORE Standard / Oversized	A	B Standard / Oversized	C Standard / Oversized	D	MIN DBSE	MIN BORE
UNITS OF MEASURE	US / SI	(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)
350.275	F	95 / 2 413	106 / 2 692	2.13 / 55	5.25	3.06 / 78	1.81 / 46		5.4	0.63
	A	107 / 2 718	119 / 3 023	2.38 / 65	133	4 /102	2.6 / 66	2.75 / 70	137	16
	R	114 / 2 896	126 / 3 200							
375.275	F	95 / 2 413	106 / 2 692	2.13 / 55	5.25	3.06 / 78	1.81 / 46		5.4	0.63
	A	107 / 2 718	119 / 3 023	2.38 / 65	133	4 /102	2.6 / 66	2.75 / 70	137	16
	R	114 / 2 896	126 / 3 200							
450.275	F	95 / 2 413	106 / 2 692							
	A	107 / 2 718	119 / 3 023	2.25 / 55	5.25	3.15 / 80	1.81/46	2.75 / 70	5.4	0.63
	R	114 / 2 896	126 / 3 200	3.00 / 75	133	4 / 102	2.63 / 67		137	16
	X	128 / 3 251	141 / 3 581							
485.338	F	100 / 2 540	113 / 2 870							
	A	116 / 2 946	127 / 3 226					3.38 / 86	8.0	
	R	127 / 3 226	140 / 3 556	2.69 / 75	6.00	3.72 / 94	2.5 / 63.5		203	0.63
485.425	R	141 / 3 581	154 / 3 912	3.38 / 86	152	4.75 / 121	2.75 / 70	4.25 /108	8.0	16
	X	154 / 3 912	169 / 4 293						203	
485.625	R	170 / 4 318	189 / 4 800					6.25 / 159	9.5 / 241	
650.425	A	133 / 3 378	148 / 3 759							
	R	141 / 3 581	154 / 3 912					4.25 / 108	6	
	X	154 / 3 912	169 / 4 293	3.13 / 80	6.75	4.25 / 108	2.56 / 65		152	1.00
650.625	R	170 / 4 318	189 / 4 800	4.01 / 100	171	5.15 / 133	2.75 / 70	6.25/159	9.5	25
	X	186 / 4 725	208 / 5 283						241	
650.825	R	193 / 4 902	215 / 5 461					8.25/210	9.5	
	X	209 / 5 309	232 / 5 893						241	
850.625	A	157 / 3 988	172 / 4 369	std short			std short	6.25 / 159		
	R	170 / 4 318	189 / 4 800	3.125 / 75		std	2.5 / 63.5			
	X	186 / 4 725	208 / 5 283	std long		5.8 / 147	std long		14.2	1.00
850.825	R	193 / 4 902	215 / 5 461	4.13 / 105	9.0		3.31 / 84.1	8.25 / 210		
	X	209 / 5 309	232 / 5 893	oversized	229	oversized	oversized		361	25
850.1025	X	229 / 5 817	253 / 6 426	5.06 / 130		7.5 / 191	3.5 / 89	10.25 / 260		
850.1275	X	245 / 6 223	275 / 6 985					12.75 / 324		

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

Selection Process.

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

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

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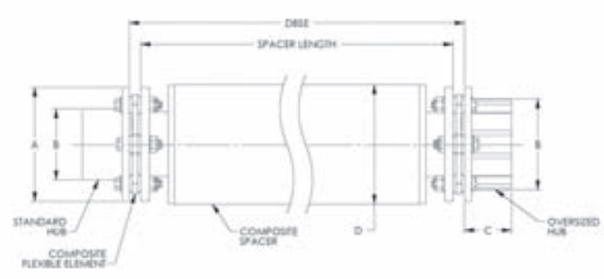

Engineering Data.

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-in2 / kg-m2	lb/in kg/m	lb-in2/in kg-m2/m
350.275	3 617	5 425	F	13.8 / 6.2	32 / 0.0093	0.07 / 1.5	0.13 / 0.0015
	408	613	A			0.06 / 1.2	0.11 / 0.0013
			R			0.06 / 1.1	0.10 / 0.0012
375.275	5 311	7 967	F	13.8 / 6.2	32 / 0.0093	0.07 / 1.5	0.13 / 0.0015
	600	900	A			0.06 / 1.2	0.11 / 0.0013
			R			0.06 / 1.1	0.10 / 0.0012
450.275			F	12.9 / 5.9	32 / 0.0092	0.07 / 1.5	0.13 / 0.0015
	7 250	10 875	A			0.06 / 1.2	0.11 / 0.0013
	820	1 229	R			0.06 / 1.1	0.10 / 0.0012
			X			0.06 / 1.2	0.10 / 0.0012
485.338			F	23.4 / 10.6	47 / 0.014	0.09 / 1.8	0.24 / 0.0029
			A			0.08 / 1.5	0.21 / 0.0024
	11 000	16 500	R			0.07 / 1.4	0.19 / 0.22
485.425	1 243	1 864	R	24.0 /10.9	74 / .022	0.09 / 1.7	0.38 / 0.0044
			X			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			A	31.5 / 14.3	122 / 0.036	0.10 / 1.9	0.42 / 0.0049
			R			0.089 / 1.7	0.38 / 0.0044
	18 100	27 150	X			0.092 / 1.8	0.39 / 0.005
650.625	2 045	3 067	R	34.4 / 15.6	141 / 0.041	0.13 / 2.6	1.2 / 0.014
			X			0.14 / 2.7	1.3 / 0.015
650.825			R	37.9 / 17.2	194 / 0.056	0.18 / 3.4	2.9 / 0.033
			X			0.18 / 3.6	3.0 / 0.035
850.625			A	63.6 / 28.8	440 / 0.130	0.15 / 2.9	1.4 / 0.016
			R			0.13 / 2.6	1.2 / 0.014
	36 200	54 300	X			0.14 / 2.7	1.3 / 0.015
850.825			R	68.5 / 31.0	512 / 0.15	0.18 / 3.4	2.9 / 0.033
	4 090	6 135	X			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.

		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