

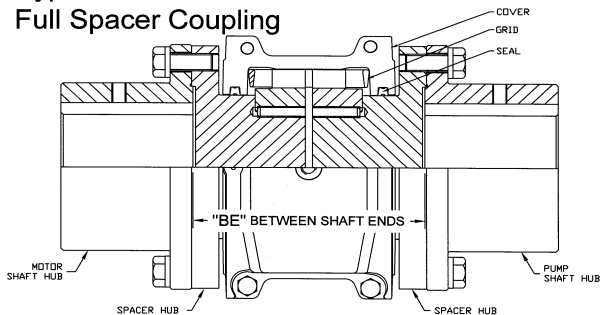


COMPONENT PART NUMBERS FOR CERTIFIED C31 COUPLINGS
Fire Pump Couplings for Electric Motors

APPLICATION GUIDELINE									
MODEL	MAX. SPEED (RPM)	Max. Torque Rating (in-lbs)	Min. Torque Rating (in-lbs)	MAX. BORE SQUARE KEY (inch)	Rated BHP / kW at RPM				
					OPERATING SPEED - RPM				
					1450	1750	1800	3000	3600
C1040T	3,600	2,200	576	2.125	50.8	61.3	63.1	105	126
					37.9	45.7	47.1	78.3	94
C1050T	3,600	3,850	576	2.375	89	107	110	183	220
					66.4	79.8	82.0	136.5	164.1
C1060T	3,600	6,050	576	2.875	139	168	173	288	346
					103.7	125.3	129.0	214.8	258
C1070T	1,800	8,800	1,080	3.125	202	244	251		
					150.6	182	187.2		
C1080T	1,800	18,150	1,080	3.500	417	503	518		
					311	375.1	386.3		



Type C31
Full Spacer Coupling



* Rough Stock Bore = Solid Hub with Centering Dimple for machining of special bores & keyways.

GRID & COVER ASSEMBLY					
Model	C1040T	C1050T	C1060T	C1070T	C1080T
Part Number	C081004	C081005	C081006	C081007	C081008

Grid & Cover Assembly consists of:

- (1) Cover
- (1) Grid
- (1) Hardware Set
- (1) Grease Pack
- (2) Seals
- (2) Gaskets

SPACER HUBS					
"BE" Between Shaft Ends **	Coupling Model				
	C1040T	C1050T	C1060T	C1070T	C1080T
3.50	C082140				
4.38	C082141	C082151			
5.00	C082142	C082152	C082162	C082172	
7.25	C082144	C082154	C082164	C082174	C082184

** Consult Clarke for other "BE" shaft dimensions required.

- NOTES: 1. Complete coupling assembly consists of:
- (1) Grid & Cover Assembly
 - (1) Motor Shaft-Hub
 - (1) Pump Shaft-Hub
 - (2) Spacer Hubs (Includes flange mounting hardware)
2. For bores and keyways not shown contact Clarke.
3. Shaft Hubs are designed for clearance fit with set screw over keyway.
4. Couplings cannot be used with diesel engines.
5. Motor certified couplings (for rated BHP's & speeds given in table above) can only be used with *fixed speeds Centrifugal Fire Pumps* , contact Clarke for application guidelines for *Positive Displacement Fire Pumps and Variable Speed Fire Pumps*.
6. ——— Denotes maximum bore with square key.
7. Shading denotes oversize bores with shallow keyway.

STANDARD SHAFT - HUBS (Clearance Fit)							
Diameter (inch)	Keyway (inch)	Motor Frame Size (Reference)	C1040T	C1050T	C1060T	C1070T	C1080T
0.500	0.125 x 0.063		C082402	C082502			
0.563	0.125 x 0.063		C082404	C082504			
0.625	0.188 x 0.094		C082406	C082506			
0.688	0.188 x 0.094		C082408	C082508			
0.750	0.188 x 0.094		C082410	C082510	C082602	C082702	
0.812	0.188 x 0.094		C082412	C082512	C082604	C082704	
0.875	0.188 x 0.094	143T/145T	C082414	C082514	C082606	C082706	
0.938	0.250 x 0.125		C082416	C082516	C082608	C082708	
1.000	0.250 x 0.125		C082418	C082518	C082610	C082710	
1.063	0.250 x 0.125		C082420	C082520	C082612	C082712	C082802
1.125	0.250 x 0.125	182T/184T	C082422	C082522	C082614	C082714	C082804
1.188	0.250 x 0.125		C082424	C082524	C082616	C082716	C082806
1.250	0.250 x 0.125		C082426	C082526	C082618	C082718	C082808
1.312	0.312 x 0.156		C082428	C082528	C082620	C082720	C082810
1.375	0.312 x 0.156	213T/215T	C082430	C082530	C082622	C082722	C082812
1.375	0.375 x 0.188		C082431	C082531	C082623	C082723	C082813
1.438	0.375 x 0.188		C082432	C082532	C082624	C082724	C082814
1.500	0.375 x 0.188		C082434	C082534	C082626	C082726	C082816
1.563	0.375 x 0.188		C082436	C082536	C082628	C082728	C082818
1.625	0.375 x 0.188	254T/256T 284TS/286TS	C082438	C082538	C082630	C082730	C082820
1.688	0.375 x 0.188		C082440	C082540	C082632	C082732	C082822
1.750	0.375 x 0.188		C082442	C082542	C082634	C082734	C082824
1.813	0.500 x 0.250		C082444	C082544	C082636	C082736	C082826
1.875	0.500 x 0.250	284T/286T 324TS/326TS	C082446	C082546	C082638	C082738	C082828
1.938	0.500 x 0.250		C082448	C082548	C082640	C082740	C082830
2.000	0.500 x 0.250		C082450	C082550	C082642	C082742	C082832
2.063	0.500 x 0.250		C082452	C082552	C082644	C082744	C082834
2.125	0.500 x 0.250	324T/326T 404T/405TS	C082454	C082554	C082646	C082746	C082836
2.188	0.500 x 0.250			C082556	C082648	C082748	C082838
2.250	0.500 x 0.250			C082558	C082650	C082750	C082840
2.250	0.500 x 0.188		C082456				
2.312	0.625 x 0.312			C082560	C082652	C082752	C082842
2.375	0.625 x 0.312	364T/365T 444TS/445TS		C082562	C082654	C082754	C082844
2.375	0.625 x 0.125		C082457				
2.438	0.625 x 0.312				C082656	C082756	C082846
2.500	0.625 x 0.312				C082658	C082758	C082848
2.500	0.625 x 0.218			C082564			
2.563	0.625 x 0.312				C082660	C082760	C082850
2.625	0.625 x 0.312				C082662	C082762	C082852
2.625	0.625 x 0.125			C082565			
2.688	0.625 x 0.312				C082664	C082764	C082854
2.750	0.625 x 0.312				C082666	C082766	C082856
2.813	0.750 x 0.375				C082668	C082768	C082858
2.875	0.750 x 0.375				C082670	C082770	C082860
2.938	0.750 x 0.375					C082772	C082862
3.000	0.750 x 0.375					C082774	C082864
3.063	0.750 x 0.375					C082776	C082866
3.125	0.750 x 0.375					C082778	C082868
3.125	0.750 x 0.250				C082672		
3.188	0.750 x 0.375						C082870
3.250	0.750 x 0.375						C082872
3.250	0.750 x 0.125				C082673		
3.250	0.750 x 0.250					C082780	
3.312	0.875 x 0.438						C082874
3.375	0.875 x 0.438						C082876
3.375	0.875 x 0.188					C082781	
3.438	0.875 x 0.438						C082878
3.500	0.875 x 0.438						C082880
3.750	0.875 x 0.312						C082882
3.875	1.000 x 0.250						C082883