SELECTION METHOD.

1) Based on operating conditions, determine the Service Factor.

2) Obtain the design horsepower by multiplying the horsepower transmitted by the service factor.

3) With the required rpm, choose the coupling that satisfies the horsepower rating.

4) when the required shaft diameter exceeds the maximum bore diameter of the coupling you have chosen, use a coupling that is one size larger.

5) in the low speed range, the shearing pressure might be too great when using a standard key. in this case calculate the key shearing pressure to determine if it is necessary to use a special key or a splined bore.

6) Note in all applications, using a coupling cover will provide quieter running, longer life, and a safer operation.

SERVICE FACTOR	Source of Power		
Load Classification	Electirc Motors or Steam Turbine	Reciprocating engines 4 or more cylinders	Reciprocating engines less than 4 cylanders
Uniform load, little shock, low starting torque, no reversing	1.0	1.5	2.0
Moderate fluctuation of lad, moderate shock, no reversing (most common)	1.5	2.0	2.5
Large fluctuations of lad, heavy shock, full load starting.	2.0	2.5	3.0

Addition Service factor, 8 to 16 hours add 0.5, 16 + hours add 1.0

Chain Coupling No.	Max allowable transmissible Torque (in.lbs.)	Speed of Rotation (rpm)													
		1	10	50	100	200	500	600	800	1000	1200	1500	1800	2000	2500
CC4012	1921	0.03	0.30	1.54	2.32	3.53	6.65	7.60	9.40	11.40	12.98	15.56	18.37	19.85	24.00
CC4016	3416	0.05	0.55	2.76	4.14	6.29	11.87	13.54	16.76	20.52	23.20	28.16	32.72	35.27	42.78
CC5016	6505	0.11	1.05	5.42	7.86	11.96	22.52	25.75	31.92	38.76	44.12	53.51	62.22	67.05	81.27
CC5018	8240	0.13	1.33	6.64	9.96	15.15	28.56	32.72	40.36	49.08	55.79	67.72	78.85	85.02	103.00
CC6018	15489	0.24	2.51	12.51	18.77	28.56	53.77	61.55	76.17	92.66	105.00	128.00	149.00	161.00	194.00
CC6020	17868	0.28	2.80	14.34	21.55	23.72	61.90	70.84	87.59	106.58	121.00	147.00	171.00	185.00	223.00
CC8018	34341	0.55	5.55	27.76	41.57	63.30	119.00	135.00	169.00	205.00	233.00	283.00	330.00	355.00	
CC8020	41027	0.66	6.61	33.05	49.55	75.17	141.30	162.00	201.00	244.00	278.00	337.00	393.00	423.00	
CC1020	77710	1.25	12.51	62.49	93.87	142.00	268.00	307.00	380.00	463.00	526.00	638.00	743.00		