

Correas Trapezoidales

Tabla N° 3 - Coeficiente de corrección de la potencia

Tipo de máquina conductora	Motores de corriente alterna, torque normal, a jaula de ardilla, sincrónicos; fase partida. Motores de corriente continua, bobinado en shunt. Máquinas de combustión interna, cilindros múltiples.			Motores de corriente alterna, alto torque, alto deslizamiento, bobinado en serie y anillado colector. Motores de corriente continua, bobinado en serie y bobinado compound. Máquina a combustión interna, monocilíndrica. Ejes en línea. Arranque directo y con embrague		
	Servicio intermedio hasta 7 horas diarias	Servicio normal 8 a 15 horas diarias	Servicio continuo más de 16 horas diarias	Servicio intermedio hasta 7 horas diarias	Servicio normal 8 a 15 horas diarias	Servicio continuo más de 16 horas diarias
Agitador para líquidos y semilíquidos, ventiladores y aspiradores, compresores y bombas centrífugas. Sopladores hasta 10 HP. Transportadores livianos.	1,0	1,1	1,2	1,1	1,2	1,3
Cintas transportadoras para arena, granos, etc. Mezcladores de panadería. Sopladores de mas de 10 HP, generadores. Línea a ejes (ejes principales), máquinas de lavaderos, máquinas herramienta, punzadoras, prensa, guillotinas, bombas rotativas positivas. Máquinas de imprenta, zarandas vibradoras y giratorias.	1,1	1,2	1,3	1,2	1,3	1,4
Máquina de ladrillos y cerámicas, elevadores a cangilones. Generadores y excitatrices. Compresores a pistón, transportadores, molinos a martillos, molinos batidores para papel, bombas a pistón, sopladores positivos. Pulverizadores, desmenuzadoras, sierras y máquinas para elaboración de madera, máquinas textiles.	1,2	1,3	1,4	1,4	1,5	1,6
Trituradoras (giratorias, mandíbulas, bolas). Molinos (bolas, laminadores, barras). Calamandra para goma, bambury-extrusoras.	1,3	1,4	1,5	1,5	1,6	1,8

Longitud de correa \rightarrow
$$L = (2.C) + \left(\frac{\pi}{2} \cdot (d_1 + d_2) \right) + \left(\frac{(d_2 - d_1)^2}{4.C} \right)$$

$$\alpha = 180^\circ - \left[\left(57 \cdot \left(\frac{d_2 - d_1}{C} \right) \right) \right]$$

Angulo de abrace \rightarrow

Tabla N° 2 - Sección B

Prestación Básica (en HP)

Nº R.P.M. De la polea menor	Diámetro primitivo de la polea menor (mm)										1.00 al 1.04					1.02 al 1.08					1.09 al 1.12					1.13 al 1.18					1.19 al 1.24					1.25 al 1.24					1.35 al 1.34					1.52 al 1.51				
	117	122	127	132	137	142	147	152	157	162	168	173	178	183	188	193	198	203	1.00 al 1.04	1.02 al 1.08	1.09 al 1.12	1.13 al 1.18	1.19 al 1.24	1.25 al 1.24	1.35 al 1.34	1.52 al 1.51	2.00 al 1.99	1.00 al 1.04	1.02 al 1.08	1.09 al 1.12	1.13 al 1.18	1.19 al 1.24	1.25 al 1.24	1.35 al 1.34	1.52 al 1.51	2.00 al 1.99														
870	1.74	1.93	2.12	2.31	2.49	2.68	2.87	3.05	3.24	3.42	3.60	3.79	3.97	4.15	4.33	4.50	4.68	4.86	0.00	0.04	0.09	0.13	0.17	0.21	0.26	0.30	0.34	0.38																						
1160	2.12	2.36	2.61	2.85	3.09	3.32	3.56	3.80	4.03	4.26	4.49	4.72	4.94	5.17	5.39	5.61	5.83	6.05	0.00	0.06	0.11	0.17	0.23	0.28	0.34	0.40	0.45	0.51																						
1750	2.72	3.06	3.39	3.72	4.05	4.37	4.69	5.01	5.32	5.62	5.92	5.92	6.22	6.51	6.80	7.08	7.36	7.90	0.00	0.09	0.17	0.26	0.34	0.43	0.51	0.60	0.69	0.77																						
200	0.57	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.97	1.02	1.07	1.12	1.17	1.22	1.27	1.32	1.36	1.41	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09																						
400	0.97	1.07	1.16	1.26	1.35	1.45	1.54	1.64	1.73	1.82	2.91	2.01	2.10	2.19	2.28	2.37	2.47	2.56	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18																						
600	1.32	1.46	1.60	1.73	1.87	2.01	2.14	2.28	2.41	2.54	2.68	2.81	2.94	3.07	3.20	3.33	3.46	3.59	0.00	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.26																						
800	1.63	1.81	1.99	2.16	2.34	2.51	2.69	2.86	3.03	3.20	3.37	3.54	3.71	3.88	4.05	4.21	4.38	4.54	0.00	0.04	0.08	0.12	0.16	0.20	0.24	0.27	0.31	0.35																						
1000	1.91	2.13	2.34	2.56	2.77	2.98	3.19	3.40	3.61	3.81	4.02	4.22	4.42	4.62	4.82	5.02	5.22	5.41	0.00	0.05	0.10	0.15	0.20	0.25	0.29	0.34	0.39	0.44																						
1200	2.17	2.42	2.67	2.92	3.16	3.41	3.65	3.89	4.13	4.37	4.60	4.84	5.07	5.30	5.52	5.75	5.98	6.20	0.00	0.06	0.12	0.18	0.24	0.29	0.35	0.41	0.47	0.53																						
1400	2.39	2.68	2.96	3.24	3.52	3.79	4.07	4.34	4.61	4.87	5.13	5.39	5.65	5.91	6.16	6.41	6.66	6.90	0.00	0.07	0.14	0.21	0.27	0.34	0.41	0.48	0.55	0.62																						
1600	2.59	2.91	3.22	3.53	3.84	4.14	4.44	4.74	5.03	5.32	5.61	5.89	6.17	6.44	6.72	6.98	7.25	7.51	0.00	0.08	0.16	0.24	0.31	0.39	0.47	0.55	0.63	0.71																						
1800	2.76	3.11	3.45	3.78	4.12	4.45	4.77	5.09	5.40	5.71	6.02	6.32	6.61	6.90	7.19	7.47	7.74	8.01	0.00	0.09	0.18	0.26	0.35	0.44	0.53	0.62	0.71	0.79																						
2000	2.90	3.28	3.64	4.00	4.36	4.71	5.05	5.39	5.72	6.04	6.36	6.68	6.98	7.29	7.57	7.86	8.14	8.41	0.00	0.10	0.20	0.29	0.39	0.49	0.59	0.69	0.78	0.88																						
2200	3.02	3.41	3.80	4.18	4.56	4.92	5.28	5.63	5.98	6.31	6.64	6.96	7.27	7.57	7.87	8.15	8.42	8.69	0.00	0.11	0.22	0.32	0.43	0.54	0.65	0.75	0.86	0.97																						
2400	3.11	3.52	3.93	4.32	4.71	5.09	5.46	5.82	6.17	6.51	6.84	7.16	7.47	7.77	8.05	8.33	8.59	8.84	0.00	0.12	0.24	0.35	0.47	0.59	0.71	0.82	0.94	1.06																						
2600	3.16	3.59	4.01	4.42	4.82	5.21	5.58	5.95	6.30	6.64	6.96	7.28	7.58	7.86	8.13	8.39	8.63	8.86	0.00	0.13	0.26	0.38	0.51	0.64	0.76	0.89	1.02	1.15																						
2800	3.19	3.63	4.06	4.48	4.88	5.27	5.65	6.01	6.35	6.68	7.00	7.30	7.58	7.85	8.10	8.33	8.54	8.73	0.00	0.14	0.27	0.41	0.55	0.69	0.82	0.96	1.10	1.24																						
3000	3.18	3.63	4.06	4.48	4.89	5.28	5.65	6.00	6.33	6.65	6.95	7.23	7.48	7.72	7.94	8.13	8.31	8.46	0.00	0.15	0.29	0.44	0.59	0.74	0.88	1.03	1.18	1.32																						
3200	3.13	3.59	4.02	4.44	4.84	5.22	5.58	5.92	6.24	6.53	6.80	7.05	7.27	7.47	7.65	7.80	-	-	0.00	0.16	0.31	0.47	0.63	0.78	0.94	1.10	1.25	1.41																						
3400	3.05	3.51	3.94	4.35	4.74	5.11	5.45	5.76	6.05	6.32	6.55	6.77	6.95	7.10	-	-	-	-	0.00	0.17	0.33	0.50	0.67	0.83	1.00	1.17	1.33	1.50																						
3600	2.93	3.38	3.81	4.21	4.58	4.92	5.24	5.53	5.78	6.01	6.21	6.37	-	-	-	-	-	-	0.00	0.18	0.35	0.53	0.71	0.88	1.06	1.24	1.41	1.59																						
3800	2.77	3.21	3.62	4.00	4.35	4.67	4.96	5.21	5.42	5.60	-	-	-	-	-	-	-	-	0.00	0.19	0.37	0.56	0.75	0.93	1.12	1.30	1.49	1.68																						
4000	2.57	3.00	3.39	3.74	4.07	4.35	4.60	4.80	4.96	-	-	-	-	-	-	-	-	-	0.00	0.20	0.39	0.59	0.78	0.98	1.18	1.37	1.57	1.76																						
4200	2.33	2.73	3.10	3.42	3.71	3.95	4.15	-	-	-	-	-	-	-	-	-	-	-	0.00	0.21	0.41	0.62	0.82	1.03	1.24	1.44	1.75	1.85																						
4400	2.04	2.42	2.75	3.04	3.28	3.47	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.22	0.43	0.65	0.86	1.08	1.29	1.51	1.73	1.94																						
4600	1.70	2.05	2.34	2.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.23	0.45	0.68	0.90	1.13	1.35	1.58	1.80	2.03																						
4800	1.32	1.63	1.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.24	0.47	0.71	0.94	1.18	1.41	1.65	1.88	2.12																						
5000	0.88	1.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.25	0.49	0.73	0.98	1.23	1.47	1.72	1.96	2.21																						
5200	0.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.26	0.51	0.76	1.02	1.27	1.53	1.78	2.04	2.29																						

Tabla N° 2 - Sección C

Nº R.P.M. De la polea menor	Prestación Base (en HP)										Prestación adicional por relación de transmisión (en HP)												
	Diámetro primitivo de la polea menor (mm)										1.00 al 1.01	1.02 al 1.04	1.05 al 1.08	1.09 al 1.12	1.13 al 1.18	1.19 al 1.24	1.25 al 1.24	1.35 al 1.34	1.52 al 1.51	2.00 y sobre			
178	190	203	216	229	241	254	267	279	292	305	317	330	330	330	330	330	330	330					
870	4.43	5.26	6.09	6.90	7.70	8.49	9.26	10.00	10.80	11.50	12.30	13.00	13.70	0.00	0.12	0.24	0.36	0.47	0.59	0.71	0.83	0.95	1.07
1160	5.28	6.32	7.34	8.34	9.31	10.30	11.20	12.10	13.00	13.90	14.70	15.50	16.30	0.00	0.16	0.32	0.47	0.63	0.79	0.95	1.11	1.26	1.42
1750	6.23	7.56	8.84	10.10	11.20	12.30	13.30	14.30	15.20	16.00	16.80	17.40	18.00	0.00	0.24	0.48	0.72	0.95	1.19	1.43	1.67	1.91	2.15
100	0.86	0.98	1.10	1.22	1.34	1.46	1.58	1.70	1.82	1.93	2.05	2.16	2.28	0.00	0.01	0.03	0.04	0.05	0.07	0.08	0.10	0.11	0.12
200	1.49	1.72	1.95	2.17	2.40	2.62	2.84	3.06	3.28	3.50	3.72	3.93	4.15	0.00	0.03	0.05	0.08	0.11	0.14	0.16	0.19	0.22	0.25
300	2.05	2.37	2.70	3.03	3.35	3.67	3.99	4.31	4.62	4.94	5.25	5.56	5.87	0.00	0.04	0.08	0.12	0.16	0.20	0.25	0.29	0.33	0.37
400	2.55	2.97	3.39	3.81	4.23	4.65	5.06	5.47	5.87	6.28	6.68	7.08	7.47	0.00	0.05	0.11	0.16	0.22	0.27	0.33	0.38	0.44	0.49
500	3.01	3.53	4.04	4.55	5.06	5.56	6.06	6.55	7.05	7.53	8.02	8.50	8.98	0.00	0.07	0.14	0.20	0.27	0.34	0.41	0.48	0.55	0.61
600	3.43	4.04	4.64	5.24	5.83	6.42	7.00	7.58	8.15	8.72	9.28	9.83	10.40	0.00	0.08	0.16	0.25	0.33	0.41	0.49	0.57	0.65	0.74
700	3.83	4.52	5.21	5.89	6.56	7.23	7.89	8.54	9.19	9.82	10.50	11.10	11.70	0.00	0.10	0.19	0.29	0.38	0.48	0.57	0.67	0.76	0.86
800	4.19	4.97	5.74	6.50	7.25	7.99	8.72	9.44	10.20	10.90	11.50	12.20	12.90	0.00	0.11	0.22	0.33	0.44	0.55	0.65	0.76	0.87	0.98
900	4.53	5.39	6.23	7.06	7.88	8.69	9.49	10.30	11.00	11.80	12.60	13.30	14.00	0.00	0.12	0.25	0.37	0.49	0.61	0.74	0.86	0.98	1.10
1000	4.84	5.77	6.69	7.59	8.47	9.34	10.20	11.00	11.90	12.70	13.50	14.20	15.00	0.00	0.14	0.27	0.41	0.55	0.68	0.82	0.95	1.09	1.23
1100	5.12	6.12	7.10	8.07	8.01	9.94	10.90	11.70	12.60	13.50	14.30	15.10	15.90	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35
1200	5.37	6.44	7.48	8.51	9.51	10.50	11.40	12.40	13.30	14.10	15.00	15.80	16.60	0.00	0.16	0.33	0.49	0.65	0.82	0.98	1.14	1.31	1.47
1300	5.60	6.73	7.83	8.90	9.94	11.00	12.00	12.90	13.80	14.70	15.60	16.40	17.20	0.00	0.18	0.35	0.53	0.71	0.89	1.06	1.24	1.42	1.59
1400	5.79	6.98	8.13	9.24	10.30	11.40	12.40	13.40	14.30	15.20	16.10	16.90	17.70	0.00	0.19	0.38	0.57	0.76	0.95	1.14	1.34	1.53	1.72
1500	5.96	7.19	8.39	9.54	10.70	11.70	12.80	13.80	14.70	15.60	16.40	17.20	18.00	0.00	0.20	0.41	0.61	0.82	1.02	1.23	1.43	1.64	1.84
1600	6.09	7.37	8.60	9.79	10.90	12.00	13.10	14.00	15.00	15.90	16.70	17.40	18.10	0.00	0.22	0.44	0.65	0.87	1.09	1.31	1.53	1.74	1.96
1700	6.20	7.51	8.77	9.98	11.10	12.20	13.30	14.20	15.20	16.00	16.80	17.50	18.10	0.00	0.23	0.46	0.69	0.93	1.16	1.39	1.62	1.85	2.09
1800	6.26	7.61	8.89	10.10	11.30	12.40	13.40	14.30	15.20	16.00	16.70	17.40	17.90	0.00	0.25	0.49	0.74	0.98	1.23	1.47	1.72	1.96	2.21
1900	6.30	7.67	8.97	10.20	11.40	12.40	13.40	14.30	15.20	15.90	16.50	17.10	17.50	0.00	0.26	0.52	0.80	1.04	1.30	1.55	1.81	2.07	2.33
2000	6.30	7.69	8.99	10.20	11.40	12.40	13.40	14.20	15.00	15.60	16.20	-	-	0.00	0.27	0.55	0.82	1.09	1.36	1.64	1.91	2.18	2.45
2100	6.26	7.66	8.97	10.20	11.30	12.30	13.20	14.00	14.70	15.20	-	-	-	0.00	0.29	0.57	0.86	1.15	1.43	1.72	2.00	2.29	2.58
2200	6.19	7.59	8.88	10.10	11.20	12.10	13.00	13.70	14.20	-	-	-	-	0.00	0.30	0.60	0.90	1.20	1.50	1.80	2.10	2.40	2.70
2300	6.07	7.47	8.74	9.90	10.90	11.80	12.60	13.20	-	-	-	-	-	0.00	0.31	0.63	0.94	1.25	1.57	1.88	2.19	2.51	2.82
2400	5.92	7.30	8.55	9.66	10.60	11.50	12.10	-	-	-	-	-	-	0.00	0.33	0.66	0.98	1.31	1.64	1.96	2.29	2.62	2.94
2500	5.72	7.08	8.29	9.35	10.20	11.00	-	-	-	-	-	-	-	0.00	0.34	0.68	1.02	1.36	1.70	2.04	2.39	2.73	3.07
2600	5.48	6.81	7.97	8.96	9.77	10.40	-	-	-	-	-	-	-	0.00	0.35	0.71	1.06	1.42	1.77	2.13	2.48	2.84	3.19
2700	5.20	6.48	7.58	8.49	9.20	-	-	-	-	-	-	-	-	0.00	0.37	0.74	1.10	1.47	1.84	2.21	2.58	2.94	3.31
2800	4.87	6.10	7.13	7.95	-	-	-	-	-	-	-	-	-	0.00	0.38	0.76	1.14	1.53	1.91	2.29	2.67	3.05	3.44
2900	4.49	5.66	6.60	7.32	-	-	-	-	-	-	-	-	-	0.00	0.40	0.79	1.19	1.58	1.98	2.37	2.77	3.16	3.56
3000	4.07	5.17	6.07	-	-	-	-	-	-	-	-	-	-	0.00	0.41	0.82	1.23	1.64	2.05	2.45	2.86	3.27	3.68

Tabla Nº 6

Longitud primitiva nominal

Correa (in)	Sección Z (mm)	Sección A (mm)	Sección B (mm)	Sección C (mm)	Sección D (mm)	Sección E (mm)
41	1066	1075	1086	-	-	-
42	1092	1106	1100	-	-	-
43	1117	1134	1140	-	-	-
44	1143	1153	1156	1191	-	-
45	1168	1186	1184	1217	-	-
46	1193	1199	1204	1242	-	-
47	1219	1232	1237	1267	-	-
48	1244	1262	1268	1293	-	-
49	1270	1280	1288	1318	-	-
50	1295	1306	1318	1344	-	-
51	1320	1330	1328	1357	-	-
52	1346	1354	1367	1394	-	-
53	1371	1381	1392	1429	-	-
54	1397	1405	1410	1442	-	-
55	1422	1429	1443	1460	-	-
56	1447	1459	1460	1497	-	-
57	1473	1492	1491	1527	-	-
58	1498	1507	1512	1550	-	-
59	1524	1532	1541	1576	-	-
60	1549	1556	1556	1598	-	-
61	-	1584	1601	1623	-	-
62	-	1605	1626	1648	-	-
63	-	1633	1641	1674	-	-
64	-	1658	1674	1699	-	-
65	-	1683	1695	1725	-	-
66	-	1714	1724	1745	-	-
67	-	1742	1743	1775	-	-
68	-	1767	1770	1788	-	-
69	-	1785	1794	1826	-	-
70	-	1813	1818	1847	-	-
71	-	1841	1846	1877	-	-
72	-	1862	1878	1897	-	-
73	-	1887	1900	1928	-	-
74	-	1913	1924	1953	-	-
75	-	1937	1947	1979	-	-
76	-	1963	1973	1989	-	-
77	-	1989	1999	2015	-	-
78	-	2013	2024	2042	-	-
79	-	2033	2043	2068	-	-
80	-	2065	2075	2094	-	-
81	-	2093	2103	2119	-	-
82	-	2116	2126	2145	-	-
83	-	2133	2151	2170	-	-
84	-	2167	2177	2196	-	-
85	-	2193	2203	2221	-	-
86	-	2220	2230	2247	-	-
87	-	2245	2258	2273	-	-
88	-	2273	2283	2299	2313	-
89	-	2299	2304	2326	2339	-
90	-	2319	2329	2348	2366	-
91	-	2344	2355	2374	2392	-
92	-	2370	2380	2400	2418	-
93	-	2393	2403	2422	2445	-
94	-	2421	2431	2448	2471	-
95	-	2446	2456	2475	2497	-
96	-	2471	2481	2500	2523	-
97	-	2497	2508	2524	2550	-
98	-	2533	2543	2562	2576	-
99	-	2554	2558	2587	2602	-
100	-	2573	2583	2602	2629	-
101	-	2599	2609	2622	2655	-
102	-	2624	2643	2653	2681	-
103	-	2650	2659	2679	2707	-
104	-	2683	2693	2704	2726	-
105	-	2700	2710	2729	2752	-
106	-	2726	2743	2754	2778	-
107	-	2758	2761	2780	2805	-
108	-	2776	2793	2812	2831	-
109	-	2802	2819	2838	2857	-
110	-	2833	2843	2862	2876	-

Tabla N° 5

Factor de corrección

Arco de contacto sobre polea menor	Poleas acanaladas	Poleas acanalada/plana
180°	1.00	0.75
175°	0.99	0.76
170°	0.98	0.77
167°	0.97	0.78
164°	0.96	0.79
160°	0.95	0.80
157°	0.94	0.81
154°	0.93	0.81
150°	0.92	0.82
147°	0.91	0.83
144°	0.90	0.83
140°	0.89	0.84

Tabla N° 4

Sección de la correa

Longitud correa	Z	A	B	C	D	E
16	0.80	-	-	-	-	-
24	0.83	-	-	-	-	-
26	0.84	0.81	-	-	-	-
31	0.89	0.84	-	-	-	-
35	0.92	0.87	0.81	-	-	-
38	0.93	0.88	0.83	-	-	-
42	0.95	0.90	0.85	-	-	-
46	0.97	0.92	0.87	-	-	-
51	0.99	0.94	0.89	0.80	-	-
55	1.00	0.96	0.90	0.81	-	-
60	-	0.98	0.92	0.82	-	-
68	-	1.00	0.95	0.85	-	-
75	-	1.02	0.97	0.87	-	-
80	-	1.04	0.98	0.89	-	-
81	-	1.04	0.98	0.89	-	-
85	-	1.05	0.99	0.90	-	-
90	-	1.06	1.00	0.91	-	-
96	-	1.08	1.02	0.92	-	-
97	-	1.08	1.02	0.92	-	-
105	-	1.10	1.04	0.94	-	-
112	-	1.11	1.05	0.95	-	-
120	-	1.13	1.07	0.97	0.86	-
128	-	1.14	1.08	0.98	0.87	-
144	-	-	1.11	1.00	0.90	-

Cadenas de Rodillos

Table 1 Service factors

Driven equipment	Service factors		
	Input power		
	Internal combustion engine with hydraulic drive	Electric motor or turbine	Internal combustion engine with mechanical drive
Agitators, liquid stock	1.0	1.0	1.2
Beaters	1.2	1.3	1.4
Blowers, centrifugal	1.0	1.0	1.2
Boat propellers	1.4	1.5	1.7
Compressors			
centrifugal	1.2	1.3	1.4
reciprocating, 3 or more cylinders	1.2	1.3	1.4
reciprocating, singular, 2 cylinders	1.4	1.5	1.7
Conveyors			
uniformly loaded or fed	1.0	1.0	1.2
not uniformly loaded or fed	1.2	1.3	1.4
reciprocating	1.4	1.5	1.7
Cookers, cereal	1.0	1.0	1.2
Crushers	1.4	1.5	1.7

No. 60 chain .750" pitch

Ratings

Number of teeth, in small sprocket	Maximum bore inches	Horsepower for single strand chain ▲																			
		RPM of small sprocket																			
25	50	100	200	300	500	700	900	1000	1100	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500		
11	1.250	0.41	0.77	1.44	2.69	3.87	6.13	8.30	10.4	11.4	12.5	11.9	9.4	7.70	6.45	5.51	3.94	3.00	2.38	1.95	1.63
12	1.344	0.45	0.85	1.58	2.95	4.25	6.74	9.12	11.4	12.6	13.7	13.5	10.7	8.77	7.35	6.28	4.49	3.42	2.71	2.22	1.86
13	1.500	0.50	0.92	1.73	3.22	4.64	7.34	9.94	12.5	13.7	14.9	15.2	12.1	9.89	8.29	7.08	5.06	3.85	3.06	2.50	0
14	1.750	0.54	1.00	1.87	3.49	5.02	7.96	10.8	13.5	14.8	16.2	17.0	13.5	11.1	9.26	7.91	5.66	4.31	3.42	2.80	0
15	1.938	0.58	1.08	2.01	3.76	5.41	8.57	11.6	14.5	16.0	17.4	18.8	15.0	12.3	10.3	8.77	6.28	4.77	3.79	3.10	0
16	2.125	0.62	1.16	2.16	4.03	5.80	9.19	12.4	15.6	17.1	18.7	20.2	16.5	13.5	11.3	9.66	6.91	5.26	4.17	3.42	0
17	2.313	0.66	1.24	2.31	4.30	6.20	9.81	13.3	16.7	18.3	19.9	21.6	18.1	14.8	12.4	10.6	7.57	5.76	4.57	3.74	0
18	2.500	0.70	1.31	2.45	4.58	6.59	10.4	14.1	17.7	19.5	21.2	22.9	19.7	16.1	13.5	11.5	8.25	6.28	4.98	4.08	0
19	2.688	0.75	1.39	2.60	4.85	6.99	11.1	15.0	18.8	20.6	22.5	24.3	21.4	17.5	14.6	12.5	8.95	6.81	5.40	4.42	0
20	2.813	0.79	1.47	2.75	5.13	7.38	11.7	15.8	19.8	21.8	23.8	25.7	23.1	18.9	15.8	13.5	9.66	7.35	5.83	0	-
21	3.063	0.83	1.55	2.90	5.40	7.78	12.3	16.7	20.9	23.0	25.1	27.1	24.8	20.3	17.0	14.5	10.4	7.91	6.28	0	-
22	3.250	0.87	1.63	3.05	5.68	8.19	13.0	17.5	22.0	24.2	26.4	28.5	26.6	21.8	18.2	15.6	11.1	8.48	6.73	0	-
23	3.438	0.92	1.71	3.19	5.96	8.59	13.6	18.4	23.1	25.4	27.7	29.9	28.4	23.3	19.5	16.7	11.9	9.07	7.19	0	-
24	3.625	0.96	1.79	3.35	6.24	8.99	14.2	19.3	24.2	26.6	29.0	31.3	30.3	24.8	20.8	17.8	12.7	9.66	7.67	0	-
25	3.750	1.00	1.87	3.50	6.52	9.40	14.9	20.1	25.3	27.8	30.3	32.7	32.2	26.4	22.1	18.9	13.5	10.3	8.15	0	-
28	4.188	1.13	2.12	3.95	7.37	10.6	16.8	22.8	28.5	31.4	34.2	37.0	38.2	31.3	26.2	22.4	16.0	12.2	0	-	-
30	4.500	1.22	2.28	4.26	7.94	11.4	18.1	24.5	30.8	33.8	36.8	39.8	42.4	34.7	29.1	24.8	17.8	13.5	0	-	-
32	4.750	1.31	2.45	4.56	8.52	12.3	19.4	26.3	33.0	36.3	39.5	42.7	46.7	38.2	32.0	27.3	19.6	14.9	0	-	-
35	5.500	1.44	2.69	5.03	9.38	13.5	21.4	29.0	36.3	39.9	43.5	47.1	53.4	43.7	36.6	31.3	22.4	17.0	0	-	-
40	6.250	1.67	3.11	5.81	10.8	15.6	24.7	33.5	42.0	46.1	50.3	54.4	62.5	53.4	44.7	38.2	27.3	0	-	-	-
Lubrication type ■		A	B				C														

▲ Ratings are based on a service factor of 1. For a complete list of service factors, refer to Table 1, page C-7. The ratings listed above apply directly to lubricated, single strand, standard and heavy series roller chains. For multiple strand chains, apply the factors shown in the table at right. To select chains that vary in design or material from standard roller chain, use the factors in Table 3, page C-7.

■ Type A: Manual or drip (Maximum chain speed 220 FPM)
Type B: Bath or disc (Maximum chain speed 1800 FPM)
Type C: Forced (pump)

Multiple strand factors

Number of strands	Multiple strand factor
2	1.7
3	2.5
4	3.3
5	4.1
6	5.0
7 or more	Consult Rexnord

No. 80 chain 1.000" pitch

Ratings

Number of teeth, in small sprocket	Maximum bore inches	Horsepower for single strand chain ▲																			
		RPM of small sprocket																			
11	1.625	0.97	1.80	3.36	6.28	9.04	11.7	14.3	19.4	23.0	19.6	14.9	11.8	9.69	8.12	6.93	6.01	5.27	4.42	3.77	1.70
12	1.750	1.06	1.98	3.69	6.89	9.93	12.9	15.7	21.3	26.2	22.3	17.0	13.5	11.0	9.25	7.90	6.85	6.01	5.04	4.30	0
13	2.000	1.16	2.16	4.03	7.52	10.8	14.0	17.1	23.2	29.1	25.2	19.2	15.2	12.5	10.4	8.91	7.72	6.78	5.68	4.85	0
14	2.250	1.25	2.34	4.36	8.14	11.7	15.2	18.6	25.1	31.5	28.2	21.4	17.0	13.9	11.7	9.96	8.63	7.57	6.35	5.42	0
15	2.563	1.35	2.52	4.70	8.77	12.6	16.4	20.0	27.1	34.0	31.2	23.8	18.9	15.4	12.9	11.0	9.57	8.40	7.04	6.01	0
16	2.875	1.45	2.70	5.04	9.41	13.5	17.6	21.5	29.0	36.4	34.4	26.2	20.8	17.0	14.2	12.2	10.5	9.25	7.76	6.62	0
17	3.125	1.55	2.88	5.38	10.0	14.5	18.7	22.9	31.0	38.9	37.7	28.7	22.7	18.6	15.6	13.3	11.5	10.1	8.49	7.25	0
18	3.375	1.64	3.07	5.72	10.7	15.4	19.9	24.4	33.0	41.4	41.1	31.2	24.8	20.3	17.0	14.5	12.6	11.0	9.25	7.90	0
19	3.688	1.74	3.25	6.07	11.3	16.3	21.1	25.8	35.0	43.8	44.5	33.9	26.9	22.0	18.4	15.7	13.6	12.0	10.0	8.57	0
20	3.813	1.84	3.44	6.41	12.0	17.2	22.3	27.3	37.0	46.3	48.1	36.6	29.0	23.8	19.9	17.0	14.7	12.9	10.8	0	-
21	4.125	1.94	3.62	6.76	12.6	18.2	23.5	28.8	39.0	48.9	51.7	39.4	31.2	25.6	21.4	18.3	15.9	13.9	11.7	0	-
22	4.438	2.04	3.81	7.11	13.3	19.1	24.8	30.3	41.0	51.4	55.5	42.2	33.5	27.4	23.0	19.6	17.0	14.9	12.5	0	-
23	4.625	2.14	4.00	7.46	13.9	20.1	26.0	31.8	43.0	53.9	59.3	45.1	35.8	29.3	24.6	21.0	18.2	15.9	13.4	0	-
24	4.688	2.24	4.19	7.81	14.6	21.0	27.2	33.2	45.0	56.4	62.0	48.1	38.2	31.2	26.2	22.3	19.4	17.0	14.2	0	-
25	4.750	2.34	4.37	8.16	15.2	21.9	28.4	34.7	47.0	59.0	64.8	51.1	40.6	33.2	27.8	23.8	20.6	18.1	15.1	0	-
28	5.375	2.65	4.94	9.23	17.2	24.8	32.1	39.3	53.2	66.7	73.3	60.6	48.1	39.4	33.0	28.2	24.4	21.4	0	-	-
30	5.750	2.85	5.33	9.94	18.5	26.7	34.6	42.3	57.3	71.8	78.9	67.2	53.3	43.6	36.6	31.2	27.1	23.8	0	-	-
32	6.313	3.06	5.71	10.7	19.9	28.6	37.1	45.4	61.4	77.0	84.6	74.0	58.7	48.1	40.3	34.4	29.8	26.2	0	-	-
35	7.750	3.37	6.29	11.7	21.9	31.6	40.9	50.0	67.6	84.8	93.3	84.7	67.2	55.0	46.1	39.4	34.1	0	-	-	-
40	9.375	3.89	7.27	13.6	25.3	36.4	47.2	57.7	78.1	99.01	108	103	82.1	67.2	56.3	48.1	20.0	0	-	-	-

The dotted line indicates the point at which pin and bushing galling is likely to begin. When the desired selection falls within the shaded area, consult Rexnord for guidance.

- ▲ Ratings are based on a service factor of 1. For a complete list of service factors, refer to Table 1, page C-7. The ratings listed above apply directly to lubricated, single strand, standard and heavy series roller chains. For multiple strand chains, apply the factors shown in the table at right. To select chains that vary in design or material from standard roller chain, use the factors in Table 3, page C-7.

- Type A: Manual or drip (Maximum chain speed 170 FPM)
 Type B: Bath or disc (Maximum chain speed 1500 FPM)
 Type C: Forced (pump)

Multiple strand factors

Number of strands	Multiple strand factor
2	1.7
3	2.5
4	3.3
5	4.1
6	5.0
7 or more	Consult Rexnord

Longitud de la cadena en eslabones.

$$L_{esl} := 2 \cdot C_p + \frac{Z_1 + Z_2}{2} + \frac{(Z_2 - Z_1)^2}{4 \cdot \pi^2 \cdot C_p}$$

Diámetros de piñón / corona

$$d := \frac{p}{\sin\left(\frac{180}{Z}\right)}$$

Engranajes

Número de dientes	Y	Número de dientes	Y
12	0.245	28	0.353
13	0.261	30	0.359
14	0.277	34	0.371
15	0.290	38	0.384
16	0.296	43	0.397
17	0.303	50	0.409
18	0.309	60	0.422
19	0.314	75	0.435
20	0.322	100	0.447
21	0.328	150	0.460
22	0.331	300	0.472
24	0.337	400	0.480
26	0.346	Cremallera	0.485

$K_v = \frac{3.05 + V}{3.05}$	(hierro fundido, perfil moldeado)
$K_v = \frac{6.1 + V}{6.1}$	(perfil cortado o fresado)
$K_v = \frac{3.56 + \sqrt{V}}{3.56}$	(perfil generado con fresa madre o cepillado)
$K_v = \sqrt{\frac{5.56 + \sqrt{V}}{5.56}}$	(perfil cepillado o esmerilado)