

Shaft Power (hp) Limitation – 60 Hz

200.B.01 *(Effective October, 2021)*

Dia (in)	RPM	Thrust (1000 lb)										
		1	2	5	7.5	10	15	20	25	30	40	50
1.00	3540	105	105	101	95							
	1770	53	52	50	47							
	1180	35	35	34	32							
1.19	3540	187	187	183	178	171						
	1770	94	93	92	89	86						
	1180	62	62	61	59	57						
1.50	3540	383	382	380	376	371	355	*270				
	1770	191	191	190	188	185	177	*135				
	1180	128	127	127	125	124	118	*90				
	885	96	96	95	94	93	89	*68				
1.69	3540	563	562	560	557	552	*507	*428	*295			
	1770	281	281	280	278	276	*254	*214	*147			
	1180	188	187	187	186	184	*169	*143	*98			
	885	141	141	140	139	138	*127	*107	*74			
1.94	1770	440	439	439	437	435	429	*407	*366	*308		
	1180	293	293	292	291	290	286	*271	*244	*205		
	885	220	220	219	219	218	215	*204	*183	*154		
2.19	1770	*582	*581	*578	*573	*566	*547	*518	*479	*425	*242	
	1180	*388	*387	*385	*382	*378	*365	*345	*319	*284	*161	
	885	*291	*291	*289	*287	*283	*273	*259	*239	*213	*121	
2.44	1770	915	915	914	913	911	907	900	*877	*841	*741	*588
	1180	610	610	609	608	607	604	600	*584	*560	*494	*392
	885	457	457	457	456	456	453	450	*438	*420	*370	*294
2.69	1770	1199	1198	1198	1197	1195	1191	1185	1178	1169	1145	1114
	1180	799	799	799	798	797	794	790	785	779	763	742
	885	599	599	599	598	598	596	593	589	584	572	557
2.94	1770	1591	1591	1590	1589	1588	1584	1579	1572	1564	1543	1515
	1180	1061	1061	1060	1060	1059	1056	1053	1048	1043	1028	1010
	885	795	795	795	795	794	792	790	786	782	771	757
3.19	1770	2061	2061	2060	2059	2058	2055	2050	2044	2036	2017	*1970
	1180	1374	1374	1373	1373	1372	1370	1367	1362	1357	1344	*1313
	885	1030	1030	1030	1030	1029	1027	1025	1022	1018	1008	*985
3.44	1770	1961	1961	1961	1960	1960	1957	1954	1950	1944	1931	1913
	1180	1308	1308	1307	1307	1306	1305	1303	1300	1296	1287	1276
	885	981	981	980	980	980	979	977	975	972	965	0
3.69	1770	2446	2446	2445	2445	2444	2442	2439	2435	2430	2417	2401
	1180	1630	1630	1630	1630	1629	1628	1626	1623	1620	1612	1601
	885	1223	1223	1223	1222	1222	1221	1219	1217	1215	1209	1201

Thrust (1000 lb)												
Dia (in)	RPM	1	2	5	7.5	10	15	20	25	30	40	50
4.00	1180	2104	2104	2103	2103	2103	2101	2099	2097	2094	2086	2077
	885	1578	1578	1578	1577	1577	1576	1575	1573	1570	1565	1557
	710	1266	1266	1266	1265	1265	1264	1263	1262	1260	1255	1249
	590	1052	1052	1052	1052	1051	1051	1050	1048	1047	1043	1038
4.25	1180	2542	2542	2542	2542	2541	2540	2538	2536	2533	2526	2517
	885	1907	1907	1906	1906	1906	1905	1904	1902	1900	1894	1888
	710	1530	1530	1529	1529	1529	1528	1527	1526	1524	1520	1514
	590	1271	1271	1271	1271	1271	1270	1269	1268	1267	1263	1258
4.50	1180	3038	3038	3037	3037	3037	3036	3034	3032	3029	3022	3014
	885	2278	2278	2278	2278	2278	2277	2275	2274	2272	2267	2260
	710	1828	1828	1828	1827	1827	1826	1825	1824	1823	1819	1813
	590	1519	1519	1519	1519	1518	1518	1517	1516	1515	1511	1507
5.00	885	3160	3160	3160	3160	3160	3159	3158	3156	3155	3150	3144
	710	2536	2535	2535	2535	2535	2534	2533	2532	2531	2527	2523
	590	2107	2107	2107	2107	2107	2106	2105	2104	2103	2100	2096
	505	1803	1803	1803	1803	1803	1803	1802	1801	1800	1798	1794
5.50	885	4245	4245	4245	4245	4245	4244	4243	4242	4240	4236	4231
	710	3406	3406	3406	3405	3405	3405	3404	3403	3402	3398	3394
	590	2830	2830	2830	2830	2830	2829	2829	2828	2827	2824	2820
	505	2422	2422	2422	2422	2422	2422	2421	2420	2419	2417	2414
6.00	885	5553	5553	5553	5553	5553	5552	5551	5550	5549	5545	5540
	710	4455	4455	4455	4455	4455	4454	4454	4453	4451	4448	4445
	590	3702	3702	3702	3702	3702	3702	3701	3700	3699	3697	3693
	505	3169	3169	3169	3169	3169	3169	3168	3168	3167	3166	3161

Notes:

- The values presented in this table represent the more stringent limit between the lineshaft or the lineshaft coupling. Values preceded with an asterisk (*) are limited by the lineshaft coupling.
- 3.19" and smaller shafting assumes the use of threaded lineshaft couplings. 3.44" and larger shafting assumes the use of keyed lineshaft couplings.
- If pump configuration utilizes 3.19" or smaller shafting AND keyed lineshaft couplings, reduce the shaft power limit by multiplying the value shown by 0.75. (Since 3.44" and larger shafting already assumes keyed lineshaft couplings, no modification is necessary.)
- Total thrust should be considered per D200A08:

$$\text{Total thrust} = \text{Hydraulic Thrust [Thrust K-Factor * TDH * SG]} + \text{Dead Weight [Total Shaft Weight (D200B02) + Total Impeller Weight (D200A06)]} + \text{Shaft Thrust} + \text{Sleeve Thrust}$$

- Values in table assume C1045 material. Use the following multipliers for different materials.

Material	Code	Multiplier
C1045	2205	1.00
C1211	2210	1.00
C1018	2242	1.09
416SS	2227	1.33
316SS	2216	0.89
17-4PH	2259	1.80
NITRONIC 50	2270	1.33
NITRONIC 60	2284	1.22
MONEL K-500	2159	1.87
HAST C	2264	0.91

Shaft Power (hp) Limitation – 50 Hz

200.B.01A *(Effective October, 2021)*

Dia (in)	RPM	Thrust (1000 lb)										
		1	2	5	7.5	10	15	20	25	30	40	50
1.00	2950	88	87	84	79							
	1475	44	44	42	39							
	985	29	29	28	26							
1.19	2950	156	155	153	149	143						
	1475	78	78	76	74	71						
	985	52	52	51	50	48						
1.50	2950	319	319	317	313	309	296	*270				
	1475	159	159	158	157	154	148	*135				
	985	107	106	106	105	103	99	*90				
	740	80	80	79	79	77	74	*68				
1.69	2950	469	468	467	464	460	448	*428	*295			
	1475	234	234	233	232	230	224	*214	*147			
	985	157	156	156	155	154	150	*143	*98			
	740	118	118	117	116	115	113	*107	*74			
1.94	1475	366	366	365	364	363	358	351	342	*308		
	985	245	245	244	243	242	239	234	228	*205		
	740	184	184	183	183	182	179	176	171	*154		
2.19	1475	540	540	540	539	537	533	*518	*479	*425	*242	
	985	361	361	360	360	359	356	*345	*319	*284	*161	
	740	271	271	271	270	269	267	*259	*239	*213	*121	
2.44	1475	762	762	762	761	759	756	750	743	735	713	*588
	985	509	509	509	508	507	505	501	496	491	476	*392
	740	382	382	382	382	381	379	376	373	369	358	*294
2.69	1475	999	999	998	997	996	993	988	982	974	954	928
	985	667	667	667	666	665	663	660	656	650	637	620
	740	501	501	501	500	500	498	496	492	489	479	466
2.94	1475	1326	1326	1325	1324	1323	1320	1316	1310	1303	1285	1262
	985	885	885	885	884	884	882	879	875	870	858	843
	740	665	665	665	664	664	662	660	657	654	645	633
3.19	1475	1717	1717	1717	1716	1715	1712	1708	1703	1697	1681	1659
	985	1147	1147	1146	1146	1145	1143	1141	1137	1133	1122	1108
	740	862	862	861	861	860	859	857	854	851	843	833
3.44	1475	1634	1634	1634	1634	1633	1631	1628	1625	1620	1609	1595
	985	1092	1091	1091	1091	1090	1089	1087	1085	1082	1075	1065
	740	820	820	820	820	819	818	817	815	813	807	800
3.69	1475	2038	2038	2038	2037	2037	2035	2032	2029	2025	2014	2001
	985	1361	1361	1361	1360	1360	1359	1357	1355	1352	1345	1336
	740	1022	1022	1022	1022	1022	1021	1020	1018	1016	1011	1004

		Thrust (1000 lb)											
Dia (in)	RPM	1	2	5	7.5	10	15	20	25	30	40	50	
4.00	985	1756	1756	1756	1756	1755	1754	1752	1750	1748	1742	1733	
	740	1319	1319	1319	1319	1319	1318	1317	1315	1313	1308	1302	
	590	1052	1052	1052	1052	1051	1051	1050	1048	1047	1043	1038	
	490	874	874	873	873	873	873	872	871	870	866	862	
4.25	985	2122	2122	2122	2122	2121	2120	2119	2117	2114	2109	2101	
	740	1594	1594	1594	1594	1594	1593	1592	1590	1589	1584	1578	
	590	1271	1271	1271	1271	1271	1270	1269	1268	1267	1263	1258	
	490	1056	1056	1056	1055	1055	1055	1054	1053	1052	1049	1045	
4.50	985	2536	2536	2536	2535	2535	2534	2533	2531	2529	2523	2516	
	740	1905	1905	1905	1905	1904	1904	1903	1901	1900	1895	1890	
	590	1519	1519	1519	1519	1518	1518	1517	1516	1515	1511	1507	
	490	1261	1261	1261	1261	1261	1261	1260	1259	1258	1255	1251	
5.00	740	2643	2643	2643	2642	2642	2641	2640	2639	2638	2634	2629	
	590	2107	2107	2107	2107	2107	2106	2105	2104	2103	2100	2096	
	490	1750	1750	1750	1750	1750	1749	1748	1748	1747	1744	1741	
	420	1500	1500	1500	1500	1500	1499	1499	1498	1497	1495	1492	
5.50	740	3550	3550	3550	3549	3549	3549	3548	3547	3545	3542	3537	
	590	2830	2830	2830	2830	2830	2829	2829	2828	2827	2824	2820	
	490	2350	2350	2350	2350	2350	2350	2349	2348	2348	2345	2342	
	420	2015	2015	2015	2015	2014	2014	2014	2013	2012	2010	2008	
6.00	740	4644	4644	4643	4643	4643	4643	4642	4641	4640	4636	4632	
	590	3702	3702	3702	3702	3702	3702	3701	3700	3699	3697	3693	
	490	3075	3075	3075	3075	3074	3074	3074	3073	3072	3070	3067	
	420	2636	2636	2635	2635	2635	2635	2635	2634	2633	2631	2629	

Notes:

1. The values presented in this table represent the more stringent limit between the lineshaft or the lineshaft coupling. Values preceded with an asterisk (*) are limited by the lineshaft coupling.

2. 3.19" and smaller shafting assumes the use of threaded lineshaft couplings. 3.44" and larger shafting assumes the use of keyed lineshaft couplings.

3. If pump configuration utilizes 3.19" or smaller shafting AND keyed lineshaft couplings, reduce the shaft power limit by multiplying the value shown by 0.75. (Since 3.44" and larger shafting already assumes keyed lineshaft couplings, no modification is necessary.)

4. Total thrust should be considered per D200A08:

$$\text{Total thrust} = \text{Hydraulic Thrust} [\text{Thrust K-Factor} * \text{TDH} * \text{SG}] + \text{Dead Weight} [\text{Total Shaft Weight (D200B02)} + \text{Total Impeller Weight (D200A06)}] + \text{Shaft Thrust} + \text{Sleeve Thrust}$$

5. Values in table assume C1045 material. Use the following multipliers for different materials.

Material	Code	Multiplier
C1045	2205	1.00
C1211	2210	1.00
C1018	2242	1.09
416SS	2227	1.33
316SS	2216	0.89
17-4PH	2259	1.80
NITRONIC 50	2270	1.33
NITRONIC 60	2284	1.22
MONEL K-500	2159	1.87
HAST C	2264	0.91

Shaft Power (kW) Limitation – 60 Hz

200.B.01A *(Effective October, 2021)*

		Thrust (1000 kg)											
Dia (mm)	RPM	1	2	5	7.5	10	15	20	25	30	40	50	
25	3540	79	78	75	71								
	1770	39	39	38	35								
	1180	26	26	25	24								
30	3540	139	139	137	133	128							
	1770	70	70	68	66	64							
	1180	46	46	46	44	43							
38	3540	285	285	283	280	276	264	*201					
	1770	143	143	142	140	138	132	*101					
	1180	95	95	94	93	92	88	*67					
	885	71	71	71	70	69	66	*51					
43	3540	419	419	418	415	412	*378	*319	*220				
	1770	210	210	209	208	206	*189	*160	*110				
	1180	140	140	139	138	137	*126	*107	*73				
	885	105	105	104	104	103	*95	*80	*55				
49	1770	328	328	327	326	324	320	*303	*273	*230			
	1180	219	218	218	217	216	213	*202	*182	*153			
	885	164	164	164	163	162	160	*152	*136	*115			
56	1770	*434	*433	*431	*427	*422	*408	*386	*357	*317	*180		
	1180	*289	*289	*287	*285	*282	*272	*257	*238	*212	*120		
	885	*217	*217	*216	*214	*211	*204	*193	*178	*159	*90		
62	1770	682	682	681	681	679	676	671	*654	*627	*553	*438	
	1180	455	455	454	454	453	451	448	*435	*418	*368	*292	
	885	341	341	341	340	340	338	336	*327	*313	*276	*219	
68	1770	894	894	893	892	891	888	884	878	872	854	830	
	1180	596	596	595	595	594	592	589	586	581	569	554	
	885	447	447	447	446	446	444	442	439	436	427	415	
75	1770	1186	1186	1186	1185	1184	1181	1177	1172	1166	1150	1129	
	1180	791	791	791	790	789	788	785	782	777	767	753	
	885	593	593	593	593	592	591	589	586	583	575	565	
81	1770	1537	1537	1536	1536	1535	1532	1529	1524	1518	1504	*1469	
	1180	1025	1024	1024	1024	1023	1021	1019	1016	1012	1003	*979	
	885	768	768	768	768	767	766	764	762	759	752	*735	
87	1770	1463	1463	1462	1462	1461	1459	1457	1454	1450	1440	1427	
	1180	975	975	975	975	974	973	971	969	967	960	951	
	885	731	731	731	731	731	730	728	727	725	720	713	
94	1770	1824	1824	1823	1823	1822	1821	1819	1816	1812	1803	1791	
	1180	1216	1216	1216	1215	1215	1214	1212	1210	1208	1202	1194	
	885	912	912	912	912	911	910	909	908	906	901	895	

		Thrust (1000 kg)											
Dia (mm)	RPM	1	2	5	7.5	10	15	20	25	30	40	50	
102	1180	1569	1569	1569	1568	1568	1567	1565	1564	1561	1556	1548	
	885	1177	1177	1176	1176	1176	1175	1174	1173	1171	1167	1161	
	710	944	944	944	944	943	943	942	941	940	936	932	
	590	784	784	784	784	784	783	783	782	781	778	774	
108	1180	1896	1896	1896	1895	1895	1894	1893	1891	1889	1884	1877	
	885	1422	1422	1422	1421	1421	1421	1420	1418	1417	1413	1408	
	710	1141	1141	1141	1140	1140	1140	1139	1138	1137	1133	1129	
	590	948	948	948	948	947	947	946	945	944	942	938	
114	1180	2265	2265	2265	2265	2265	2264	2262	2261	2259	2254	2247	
	885	1699	1699	1699	1699	1698	1698	1697	1696	1694	1690	1686	
	710	1363	1363	1363	1363	1363	1362	1361	1360	1359	1356	1352	
	590	1133	1133	1133	1132	1132	1132	1131	1130	1129	1127	1124	
127	885	2357	2357	2357	2356	2356	2356	2355	2354	2352	2349	2345	
	710	1891	1891	1891	1891	1890	1890	1889	1888	1887	1885	1881	
	590	1571	1571	1571	1571	1571	1570	1570	1569	1568	1566	1563	
	505	1345	1345	1345	1345	1345	1344	1344	1343	1342	1340	1338	
140	885	3166	3166	3166	3165	3165	3165	3164	3163	3162	3159	3155	
	710	2540	2540	2540	2539	2539	2539	2538	2537	2537	2534	2531	
	590	2110	2110	2110	2110	2110	2110	2109	2109	2108	2106	2103	
	505	1806	1806	1806	1806	1806	1806	1805	1805	1804	1802	1800	
152	885	4141	4141	4141	4141	4141	4140	4140	4139	4138	4135	4131	
	710	3322	3322	3322	3322	3322	3322	3321	3320	3319	3317	3314	
	590	2761	2761	2761	2761	2761	2760	2760	2759	2758	2757	2754	
	505	2363	2363	2363	2363	2363	2363	2362	2362	2361	2359	2357	

Notes:

1. The values presented in this table represent the more stringent limit between the lineshaft or the lineshaft coupling. Values preceded with an asterisk (*) are limited by the lineshaft coupling.

2. 81mm and smaller shafting assumes the use of threaded lineshaft couplings. 87mm and larger shafting assumes the use of keyed lineshaft couplings.

3. If pump configuration utilizes 81mm or smaller shafting AND keyed lineshaft couplings, reduce the shaft power limit by multiplying the value shown by 0.75. (Since 87mm and larger shafting already assumes keyed lineshaft couplings, no modification is necessary.)

4. Total thrust should be considered per D200A08:

$$\text{Total thrust} = \text{Hydraulic Thrust} [\text{Thrust K-Factor} * \text{TDH} * \text{SG}] + \text{Dead Weight} [\text{Total Shaft Weight (D200B02)} + \text{Total Impeller Weight (D200A06)}] + \text{Shaft Thrust} + \text{Sleeve Thrust}$$

5. Values in table assume C1045 material. Use the following multipliers for different materials.

Material	Code	Multiplier
C1045	2205	1.00
C1211	2210	1.00
C1018	2242	1.09
416SS	2227	1.33
316SS	2216	0.89
17-4PH	2259	1.80
NITRONIC 50	2270	1.33
NITRONIC 60	2284	1.22
MONEL K-500	2159	1.87
HAST C	2264	0.91

Shaft Power (kW) Limitation – 50 Hz

200.B.01A *(Effective October, 2021)*

		Thrust (1000 kg)											
Dia (mm)	RPM	1	2	5	7.5	10	15	20	25	30	40	50	
25	2950	65	65	63	59								
	1475	33	33	31	29								
	985	22	22	21	20								
30	2950	116	116	114	111	106							
	1475	58	58	57	55	53							
	985	39	39	38	37	36							
38	2950	238	238	236	234	230	220	*201					
	1475	119	119	118	117	115	110	*101					
	985	79	79	79	78	77	74	*67					
	740	60	60	59	59	58	55	*51					
43	2950	350	349	348	346	343	334	*319	*220				
	1475	175	175	174	173	171	167	*160	*110				
	985	117	117	116	115	115	112	*107	*73				
	740	88	88	87	87	86	84	*80	*55				
49	1475	273	273	273	272	270	267	262	255	*230			
	985	182	182	182	181	181	178	175	170	*153			
	740	137	137	137	136	136	134	131	128	*115			
56	1475	403	403	402	402	400	397	*386	*357	*317	*180		
	985	269	269	269	268	267	265	*257	*238	*212	*120		
	740	202	202	202	201	201	199	*193	*178	*159	*90		
62	1475	568	568	568	567	566	563	559	554	548	532	*438	
	985	380	380	379	379	378	376	374	370	366	355	*292	
	740	285	285	285	285	284	283	281	278	275	267	*219	
68	1475	745	745	744	744	743	740	737	732	726	711	692	
	985	497	497	497	497	496	494	492	489	485	475	462	
	740	374	374	373	373	373	371	370	367	364	357	347	
75	1475	989	989	988	988	987	984	981	977	972	959	941	
	985	660	660	660	660	659	657	655	652	649	640	629	
	740	496	496	496	495	495	494	492	490	488	481	472	
81	1475	1281	1281	1280	1280	1279	1277	1274	1270	1265	1253	1237	
	985	855	855	855	855	854	853	851	848	845	837	826	
	740	642	642	642	642	642	641	639	637	635	629	621	
87	1475	1219	1219	1219	1218	1218	1216	1214	1211	1208	1200	1189	
	985	814	814	814	814	813	812	811	809	807	801	794	
	740	611	611	611	611	611	610	609	608	606	602	597	
94	1475	1520	1520	1520	1519	1519	1517	1515	1513	1510	1502	1492	
	985	1015	1015	1015	1015	1014	1013	1012	1010	1008	1003	996	
	740	762	762	762	762	762	761	760	759	758	754	749	

		Thrust (1000 kg)											
Dia (mm)	RPM	1	2	5	7.5	10	15	20	25	30	40	50	
102	985	1309	1309	1309	1309	1309	1308	1307	1305	1303	1299	1293	
	740	984	984	984	983	983	983	982	981	979	976	971	
	590	784	784	784	784	784	783	783	782	781	778	774	
	490	651	651	651	651	651	651	650	649	648	646	643	
108	985	1582	1582	1582	1582	1582	1581	1580	1578	1577	1572	1567	
	740	1189	1189	1189	1189	1188	1188	1187	1186	1185	1181	1177	
	590	948	948	948	948	947	947	946	945	944	942	938	
	490	787	787	787	787	787	786	786	785	784	782	779	
114	985	1891	1891	1891	1891	1890	1890	1889	1887	1886	1881	1876	
	740	1421	1421	1420	1420	1420	1420	1419	1418	1417	1413	1409	
	590	1133	1133	1133	1132	1132	1132	1131	1130	1129	1127	1124	
	490	941	941	941	940	940	940	939	939	938	936	933	
127	740	1971	1971	1971	1970	1970	1970	1969	1968	1967	1964	1961	
	590	1571	1571	1571	1571	1571	1570	1570	1569	1568	1566	1563	
	490	1305	1305	1305	1305	1305	1304	1304	1303	1302	1301	1298	
	420	1118	1118	1118	1118	1118	1118	1118	1117	1116	1115	1113	
140	740	2647	2647	2647	2647	2647	2646	2646	2645	2644	2641	2638	
	590	2110	2110	2110	2110	2110	2110	2109	2109	2108	2106	2103	
	490	1753	1753	1753	1753	1752	1752	1752	1751	1751	1749	1747	
	420	1502	1502	1502	1502	1502	1502	1502	1501	1500	1499	1497	
152	740	3463	3463	3463	3463	3462	3462	3461	3461	3460	3457	3454	
	590	2761	2761	2761	2761	2761	2760	2760	2759	2758	2757	2754	
	490	2293	2293	2293	2293	2293	2292	2292	2291	2291	2289	2287	
	420	1965	1965	1965	1965	1965	1965	1965	1964	1964	1962	1961	

Notes:

- The values presented in this table represent the more stringent limit between the lineshaft or the lineshaft coupling. Values preceded with an asterisk (*) are limited by the lineshaft coupling.
- 81mm and smaller shafting assumes the use of threaded lineshaft couplings. 87mm and larger shafting assumes the use of keyed lineshaft couplings.
- If pump configuration utilizes 81mm or smaller shafting AND keyed lineshaft couplings, reduce the shaft power limit by multiplying the value shown by 0.75. (Since 87mm and larger shafting already assumes keyed lineshaft couplings, no modification is necessary.)
- Total thrust should be considered per D200A08:

$$\text{Total thrust} = \text{Hydraulic Thrust} [\text{Thrust K-Factor} * \text{TDH} * \text{SG}] + \text{Dead Weight} [\text{Total Shaft Weight (D200B02)} + \text{Total Impeller Weight (D200A06)}] + \text{Shaft Thrust} + \text{Sleeve Thrust}$$

- Values in table assume C1045 material. Use the following multipliers for different materials.

Material	Code	Multiplier
C1045	2205	1.00
C1211	2210	1.00
C1018	2242	1.09
416SS	2227	1.33
316SS	2216	0.89
17-4PH	2259	1.80
NITRONIC 50	2270	1.33
NITRONIC 60	2284	1.22
MONEL K-500	2159	1.87
HAST C	2264	0.91



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