

Ring Design

Maximum Allowable RPM for Spirolox Retaining Rings — SAE

Part NUMBER	VS	WS	WST	WSM	FSE	Part NUMBER	VS	WS	WST	WSM	FSE	Part NUMBER	VS	WS	WST	WSM	FSE
25	45,227	-	-	36,651	-	146	-	5,020	-	-	-	334	-	1,840	1,810	1,960	-
31	39,946	-	-	31,364	-	150	5,900	4,940	4,670	6,540	12,178	337	2,630	1,790	-	-	3,433
37	31,161	-	-	23,025	-	156	7,720	5,343	5,160	6,110	9,004	343	3,500	1,750	1,690	1,880	3,334
43	24,067	-	-	18,019	-	157	-	5,240	-	-	-	350	2,440	1,700	2,020	2,090	3,236
46	-	-	28,820	21,450	-	162	7,220	4,880	4,690	5,750	9,118	354	-	1,730	1,960	2,080	-
50	28,030	24,650	20,780	20,600	32,573	168	6,590	4,930	4,110	5,260	8,595	356	2,370	1,680	-	1,970	3,528
56	-	-	-	-	32,410	175	6,200	4,510	3,930	4,970	8,101	362	2,270	1,660	1,860	1,890	2,970
53	-	21,280	-	-	-	177	-	4,410	3,960	4,990	-	368	2,210	1,600	1,860	1,890	2,890
55	-	19,440	18,130	18,260	-	181	5,700	4,290	4,170	4,720	8,470	374	-	1,520	-	-	-
56	21,060	18,520	17,270	17,400	-	187	5,380	4,240	3,850	4,540	6,440	375	2,120	1,530	1,790	1,860	2,964
59	-	17,290	15,200	15,390	-	193	5,100	4,020	-	-	8,047	381	2,060	1,470	-	-	2,701
62	17,850	19,500	15,700	14,730	22,107	196	-	3,860	3,320	4,730	-	387	2,010	1,500	1,620	1,750	2,934
65	-	16,270	-	-	-	200	4,720	3,740	3,410	4,560	7,650	393	1,930	1,510	1,560	1,690	2,529
66	-	16,510	15,600	13,860	-	206	5,970	3,550	3,340	3,810	7,103	400	1,880	1,470	1,560	1,660	2,264
68	15,340	15,470	15,600	13,510	19,520	212	5,550	3,400	3,120	3,560	6,603	406	-	1,400	-	-	-
71	-	13,050	-	-	-	215	-	3,490	3,120	3,450	-	412	2,090	1,350	-	-	2,367
75	12,350	14,290	12,750	12,190	22,451	216	-	3,370	-	-	-	413	-	1,380	-	-	-
78	-	12,960	11,590	11,110	-	218	5,290	3,290	-	-	6,316	418	-	1,360	-	-	-
81	15,380	12,470	11,300	10,150	17,414	225	5,050	3,220	2,820	3,240	6,040	425	1,960	1,360	1,350	1,440	2,350
84	-	10,770	-	-	-	231	4,720	3,020	2,730	3,040	5,786	431	-	1,300	-	-	-
87	12,800	10,570	10,660	10,340	17,374	236	-	2,870	-	-	-	433	-	1,300	-	-	-
90	-	9,180	-	-	-	237	4,520	2,890	2,560	3,380	6,343	437	1,850	1,290	1,250	1,360	2,215
93	11,500	9,400	9,100	8,760	12,757	243	4,240	2,920	2,480	3,180	5,089	443	-	1,230	-	-	-
96	-	8,920	-	-	-	250	4,063	2,750	3,040	3,090	4,994	450	1,750	1,270	1,210	1,300	2,116
98	-	9,530	6,980	8,640	-	255	-	2,600	3,430	2,920	-	456	-	1,280	-	-	-
100	9,800	9,160	7,800	8,940	18,675	256	3,900	2,600	-	-	5,118	462	1,670	1,240	-	-	2,001
102	-	9,070	7,400	8,500	-	262	3,680	2,500	2,780	2,750	4,073	468	-	1,220	-	-	-
103	-	8,080	-	-	-	268	3,540	2,470	2,630	2,680	4,797	472	-	1,180	-	-	-
106	11,490	8,610	8,660	11,260	11,446	275	3,400	2,340	2,560	2,790	3,981	475	1,580	1,180	1,160	1,180	2,193
109	-	7,350	-	-	-	281	3,220	2,380	-	-	4,074	481	-	1,140	-	-	-
112	9,990	7,470	7,960	9,820	12,107	287	3,100	2,260	2,260	2,590	3,927	487	1,520	1,120	-	-	1,816
115	-	6,700	-	-	-	293	2,940	2,140	2,200	2,460	3,727	493	-	1,090	-	-	-
118	9,220	7,350	6,320	9,040	15,056	295	-	2,160	-	-	-	500	1,440	1,050	1,020	1,080	1,724
121	-	6,340	-	-	-	300	2,840	2,080	2,150	2,410	3,537	511	-	1,000	-	-	-
125	8,500	6,750	6,500	8,042	11,970	306	3,670	2,020	2,090	2,290	3,245	512	-	1,020	-	-	-
128	-	5,860	-	-	-	312	3,030	1,980	1,990	2,240	3,853	525	1,310	970	1,280	1,210	-
131	7,880	6,310	5,800	8,280	13,786	314	-	1,980	-	-	-	537	-	900	-	-	-
134	-	5,960	-	-	-	315	-	-	1,990	2,190	-	550	1,190	890	1,170	1,120	-
137	7,030	6,110	6,000	7,430	11,008	318	2,930	1,930	-	-	3,731	551	-	870	-	-	-
140	-	5,580	-	-	-	325	2,790	1,870	1,900	2,100	3,557	562	-	840	-	-	-
143	6,560	5,490	5,160	6,700	11,594	331	2,700	1,840	-	-	3,595	575	1,090	820	1,100	1,030	-

Maximum Allowable RPM for Spirolox Retaining Rings — Metric

Part NUMBER	VSM	ES	DNS	FS	Part NUMBER	VSM	ES	DNS	FS	Part NUMBER	VSM	ES	DNS	FS	Part NUMBER	VSM	ES	DNS	FS
6	51,561	-	-	-	34	7,398	7,982	7,763	10,847	70	3,402	2,315	2,982	4,411	165	1,000	795	753	1,201
7	39,742	-	-	-	35	7,004	7,485	7,628	11,685	71	-	2,309	-	-	170	945	749	715	1,151
8	40,518	-	-	-	36	6,641	6,903	8,474	11,640	72	3,218	2,321	2,805	3,947	175	894	697	671	1,088
9	35,627	-	-	-	37	-	7,227	-	-	75	2,949	2,152	2,537	3,648	180	848	657	636	1,030
10	31,833	-	-	-	38	5,994	7,174	7,556	10,520	77	-	-	2,379	3,467	185	898	631	601	1,115
11	25,202	-	-	-	40	7,573	6,172	7,181	10,841	78	3,158	2,007	2,304	3,731	190	854	591	577	860
12	30,875	22,153	-	-	42	6,888	5,715	6,546	8,972	80	3,025	1,981	2,576	3,747	195	813	569	551	880
13	26,805	20,094	22,915	31,185	45	6,021	5,158	5,740	7,861	82	2,900	1,895	2,425	3,574	200	775	534	518	837
14	22,359	18,471	19,967	21,602	46	-	4,909	5,505	7,006	85	2,703	1,825	2,333	3,476	205	-	-	495	1,068
15	19,625	14,543	17,836	24,273	47	-	5,570	5,283	7,232	88	2,526	1,737	2,143	3,252	210	802	579	466	1,077
16	17,364	14,149	18,132	29,110	48	5,309	5,744	5,075	7,881	90	2,443	1,721	2,029	2,731	220	734	530	425	932
17	14,958	15,923	15,677	19,841	50	4,901	4,084	5,651	7,885	92	-	-	-	-	230	674	482	527	854
18	13,439	12,233	16,195	22,605	52	6,057	3,616	5,251	7,318	95	2,174	1,509	1,777	2,598	240	622	444	486	735
19	12,140	11,685	14,221	20,417	53	-	3,450	-	-	98	-	-	1,659	2,377	250	575	413	451	726
20	11,066	10,810	12,948	18,532	54	-	3,295	4,842	6,811	100	1,955	1,508	1,579	2,542	260	582	381	424	743
21	15,326	9,641	12,475	16,896	55	5,380	3,360	4,680	6,576	102	-	-	1,530	2,746	270	541	354	390	718
22	13,341	10,397	11,421	13,523	56	5,238	3,215	4,525	6,354	105	2,082	1,399	1,435	2,640	280	505	328	363	714
23	-	9,652	10,495	14,213	58	4,890	3,111	4,359	5,942	108	-	-	1,368	2,418	290	472	-	382	624
24	11,035	8,479	10,825	19,083	59	-	2,982	-	-	110	1,902	1,323	1,391	2,279	300	443	-	357	584
25	10,214	8,524	10,020	11,982	60	4,575	2,862	4,050	4,793	115	1,745	1,248	1,280	2,090	310	-	-	342	-
26	12,483	8,642	9,301	12,494	61	-	2,683	-	-	120	1,606	1,176	1,175	1,694	320	-	-	316	-
27	-	11,357	8,721	14,320	62	4,323	2,884	3,738	5,490	125	1,483	1,092	1,088	1,778	330	-	-	299	-
28	10,648	10,259	8,609	15,229	63	4,220	2,773	3,691	5,071	130	1,374	993	1,017	1,647	340	-	-	343	-
29	9,973	9,765	8,060	18,016	64	-	2,780	-	-	135	1,270	934	952	1,530	350	-	-	322	-
30	9,534	9,149	7,562	12,189	65	3,967	2,577	3,430	4,806	140	1,186	870	888	1,519	360	-	-	305	-
31	-	8,495	-	-	66	-	2,526	-	-	145	-	821	835	1,331	370	-	-	291	-
32	8,437	7,778	6,686	14,215	67	-	2,275	3,239	4,463	150	1,022	755	788	1,470	380	-	-	276	-
33	-	-	8,205	9,511	68	3,602	2,486	3,201	3,945	155	961	891	733	1,379	390	-	-	262	-
					69	-	2,438	-	-	160	1,060	831	690	1,296	400	-	-	251	-