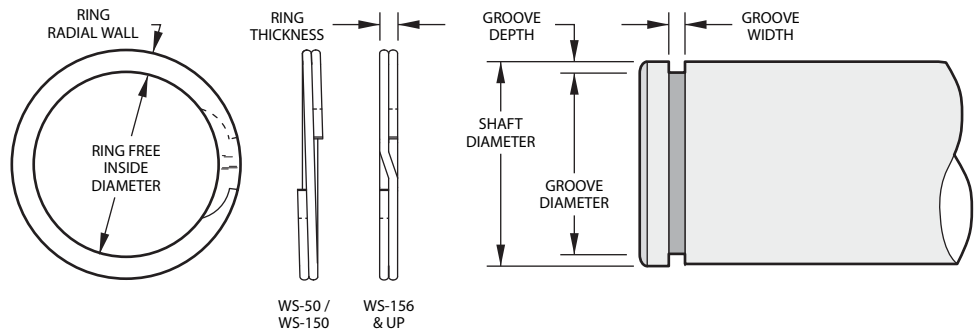


AS 3218, AS 4299
MIL-DTL-27426/1

Product Dimensions

All dimensions are in inches unless otherwise specified.



Stock Items in carbon and stainless steel.

Smalley Part Number ^{1, 4}	Shaft Diameter	RING			GROOVE		THRUST CAPACITY	
		Inside Diameter	Radial Wall	Thickness	Diameter	Width	Groove Yield (lb) ²	Ring Shear (lb) ³
WS-50	.500	.467	.045	.025	.474	.030	460	2,000
WS-53	.531	.498	.045	.025	.505	.030	490	2,130
WS-55	.551	.518	.045	.025	.525	.030	510	2,210
WS-56	.562	.529	.045	.025	.536	.030	520	2,250
WS-59	.594	.561	.045	.025	.569	.030	550	2,380
WS-62	.625	.585	.055	.025	.594	.030	710	2,500
WS-65	.656	.617	.055	.025	.625	.030	740	2,630
WS-66	.669	.629	.055	.025	.638	.030	760	2,680
WS-68	.687	.647	.055	.025	.656	.030	780	2,750
WS-71	.718	.679	.055	.025	.687	.030	810	2,880
WS-75	.750	.710	.065	.031	.719	.036	850	3,360
WS-78	.781	.741	.065	.031	.750	.036	880	3,500
WS-81	.812	.771	.065	.031	.781	.036	920	3,640
WS-84	.843	.803	.065	.031	.812	.036	950	3,780
WS-87	.875	.828	.065	.031	.838	.036	1,180	3,920
WS-90	.906	.860	.065	.031	.869	.036	1,220	4,060
WS-93	.937	.889	.065	.031	.900	.036	1,260	4,200
WS-96	.968	.916	.075	.037	.925	.042	1,440	5,180
WS-98	.984	.930	.075	.037	.941	.042	1,460	5,260
WS-100	1.000	.946	.075	.037	.957	.042	1,480	5,350
WS-102	1.023	.968	.075	.037	.980	.042	1,520	5,470
WS-103	1.031	.978	.075	.037	.988	.042	1,530	5,510
WS-106	1.062	1.007	.075	.037	1.020	.042	1,580	5,680
WS-109	1.093	1.040	.075	.037	1.051	.042	1,620	5,840
WS-112	1.125	1.070	.075	.037	1.083	.042	1,670	6,020
WS-115	1.156	1.102	.075	.037	1.114	.042	1,720	6,180
WS-118	1.188	1.127	.085	.043	1.140	.048	2,020	7,380
WS-121	1.218	1.159	.085	.043	1.170	.048	2,070	7,570
WS-125	1.250	1.188	.085	.043	1.202	.048	2,120	7,770
WS-128	1.281	1.221	.085	.043	1.233	.048	2,170	7,960
WS-131	1.312	1.251	.095	.043	1.264	.048	2,230	8,150
WS-134	1.343	1.282	.095	.043	1.295	.048	2,280	8,350
WS-137	1.375	1.308	.095	.043	1.323	.048	2,530	8,540
WS-140	1.406	1.340	.095	.043	1.354	.048	2,580	8,740
WS-143	1.437	1.370	.095	.043	1.385	.048	2,640	8,930
WS-146	1.468	1.402	.095	.043	1.416	.048	2,700	9,120
WS-150	1.500	1.433	.095	.043	1.448	.048	2,760	9,320
WS-156	1.562	1.490	.108	.049	1.507	.056	3,090	10,100
WS-157	1.575	1.503	.108	.049	1.520	.056	3,120	10,190
WS-162	1.625	1.549	.108	.049	1.566	.056	3,450	10,510
WS-168	1.687	1.610	.118	.049	1.628	.056	3,580	10,910
WS-175	1.750	1.673	.118	.049	1.691	.056	3,710	11,310
WS-177	1.771	1.690	.118	.049	1.708	.056	4,010	11,450
WS-181	1.813	1.730	.118	.049	1.749	.056	4,100	11,720
WS-187	1.875	1.789	.128	.049	1.808	.056	4,510	12,120
WS-193	1.938	1.851	.128	.049	1.871	.056	4,660	12,530
WS-196	1.969	1.882	.128	.049	1.902	.056	4,730	12,730

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.

² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.

³ Based on a safety factor of 3.

⁴ See pages 102-103 for How to Order.

Smalley Part Number ^{1, 4}	Shaft Diameter	RING			GROOVE		THRUST CAPACITY	
		Inside Diameter	Radial Wall	Thickness	Diameter	Width	Groove Yield (lb) ²	Ring Shear (lb) ³
WS-200	2.000	1.909	.128	.049	1.929 ±.005	.056	4,950	12,930
WS-206	2.062	1.971	.128	.049	1.992	.056	5,100	13,330
WS-212	2.125	2.029	.128	.049	2.051	.056	5,560	13,740
WS-215	2.156	2.060	.138	.049	2.082	.056	5,640	13,940
WS-216	2.165	2.070	.138	.049	2.091	.056	5,660	14,000
WS-218	2.188	2.092	.138	.049	2.113	.056	5,720	14,150
WS-225	2.250	2.153	.138	.049	2.176	.056	5,890	14,550
WS-231	2.312	2.211	.138	.049	2.234	.056	6,370	14,950
WS-236	2.362	2.261	.138	.049	2.284	.056	6,510	15,270
WS-237	2.375	2.273	.138	.049	2.297	.056	6,550	15,360
WS-243	2.437	2.331	.148	.049	2.355	.056	7,060	15,760
WS-250	2.500	2.394	.148	.049	2.418	.056	7,250	16,160
WS-255	2.559	2.449	.148	.049	2.473	.056	7,780	16,550
WS-256	2.562	2.452	.148	.049	2.476	.056	7,790	16,560
WS-262	2.625	2.514	.148	.049	2.539	.056	7,980	16,970
WS-268	2.688	2.572	.158	.049	2.597	.056	8,550	17,380
WS-275	2.750	2.635	.158	.049	2.660	.056	8,750	17,780
WS-281	2.813	2.696	.168	.049	2.722	.056	8,950	18,190
WS-287	2.875	2.755	.168	.049	2.781	.056	9,550	18,590
WS-293	2.937	2.817	.168	.049	2.843	.056	9,760	18,990
WS-295	2.952	2.831	.168	.049	2.858	.056	9,810	19,090
WS-300	3.000	2.877	.168	.061	2.904	.068	10,180	24,150
WS-306	3.062	2.938	.168	.061	2.966	.068	10,390	24,650
WS-312	3.125	3.000	.178	.061	3.027	.068	10,820	25,150
WS-314	3.149	3.023	.178	.061	3.051	.068	10,910	25,350
WS-318	3.187	3.061	.178	.061	3.089	.068	11,040	25,650
WS-325	3.250	3.121	.178	.061	3.150	.068	11,490	26,160
WS-331	3.312	3.180	.188	.061	3.208	.068	12,170	26,660
WS-334	3.343	3.210	.188	.061	3.239	.068	12,290	26,910
WS-337	3.375	3.242	.188	.061	3.271	.068	12,410	27,170
WS-343	3.437	3.301	.188	.061	3.331	.068	12,880	27,660
WS-350	3.500	3.363	.188	.061	3.394	.068	13,110	28,170
WS-354	3.543	3.402	.198	.061	3.433	.068	13,770	28,520
WS-356	3.562	3.422	.198	.061	3.452	.068	13,850	28,670
WS-362	3.625	3.483	.198	.061	3.515	.068	14,090	29,180
WS-368	3.687	3.543	.198	.061	3.575	.068	14,600	29,680
WS-374	3.740	3.597	.198	.061	3.628	.068	14,800	30,100
WS-375	3.750	3.606	.198	.061	3.638	.068	14,840	30,180
WS-381	3.812	3.668	.198	.061	3.700	.068	15,090	30,680
WS-387	3.875	3.724	.208	.061	3.757	.068	16,160	31,190
WS-393	3.938	3.784	.208	.061	3.820	.068	16,420	31,700
WS-400	4.000	3.842	.218	.061	3.876	.068	17,530	32,200
WS-406	4.063	3.906	.218	.061	3.939	.068	17,810	32,700
WS-412	4.125	3.967	.218	.061	4.000	.068	18,080	33,200
WS-413	4.134	3.975	.218	.061	4.010	.068	18,120	33,270
WS-418	4.188	4.022	.218	.061	4.058	.068	19,240	33,710
WS-425	4.250	4.084	.228	.061	4.120	.068	19,530	34,210
WS-431	4.312	4.147	.228	.061	4.182	.068	19,810	34,710
WS-433	4.331	4.164	.228	.061	4.200	.068	19,900	34,860
WS-437	4.375	4.208	.228	.061	4.245	.068	20,100	35,210
WS-443	4.437	4.271	.228	.061	4.307	.068	20,390	35,710
WS-450	4.500	4.326	.238	.061	4.364	.068	21,630	36,220
WS-456	4.562	4.384	.250	.072	4.422	.079	22,570	43,340
WS-462	4.625	4.447	.250	.072	4.485	.079	22,890	43,940
WS-468	4.687	4.508	.250	.072	4.547	.079	23,190	44,530
WS-472	4.724	4.546	.250	.072	4.584	.079	23,370	44,880
WS-475	4.750	4.571	.250	.072	4.610	.079	23,500	45,130
WS-481	4.812	4.633	.250	.072	4.672	.079	23,810	45,720
WS-487	4.875	4.695	.250	.072	4.735	.079	24,120	46,310
WS-493	4.937	4.757	.250	.072	4.797	.079	24,430	46,900
WS-500	5.000	4.816	.250	.072	4.856	.079	25,450	47,500
WS-511	5.118	4.934	.250	.072	4.974	.079	26,050	48,620
WS-512	5.125	4.939	.250	.072	4.981	.079	26,080	48,690
WS-525	5.250	5.064	.250	.072	5.107 ±.007	.079	26,720	49,880

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.

² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.

³ Based on a safety factor of 3.

⁴ See pages 102-103 for How to Order.

Smalley Part Number ^{1, 4}	Shaft Diameter	RING			GROOVE		THRUST CAPACITY	
		Inside Diameter	Radial Wall	Thickness	Diameter	Width	Groove Yield (lb) ²	Ring Shear (lb) ³
WS-537	5.375	5.187	.250	.072	5.228	.079	28,120	51,060
WS-550	5.500	5.308	.250	.072	5.353	.079	28,770	52,250
WS-551	5.511	5.320	.250	.072	5.364	.079	28,830	52,360
WS-562	5.625	5.433	.250	.072	5.478	.079	29,420	53,440
WS-575	5.750	5.550	.250	.072	5.597	.079	31,300	54,630
WS-587	5.875	5.674	.250	.072	5.722	.079	31,980	55,810
WS-590	5.905	5.705	.250	.072	5.752	.079	32,140	56,100
WS-600	6.000	5.798	.250	.072	5.847	.079	32,660	57,000
WS-612	6.125	5.903	.312	.086	5.953	.094	37,230	69,500
WS-625	6.250	6.026	.312	.086	6.078	.094	37,990	70,920
WS-629	6.299	6.076	.312	.086	6.127	.094	38,290	71,480
WS-637	6.375	6.152	.312	.086	6.203	.094	38,750	72,340
WS-650	6.500	6.274	.312	.086	6.328	.094	39,510	73,760
WS-662	6.625	6.390	.312	.086	6.443	.094	42,620	75,180
WS-675	6.750	6.513	.312	.086	6.568	.094	43,420	76,600
WS-687	6.875	6.638	.312	.086	6.693	.094	44,220	78,010
WS-700	7.000	6.761	.312	.086	6.818	.094	45,030	79,430
WS-712	7.125	6.877	.312	.086	6.933	.094	48,350	80,850
WS-725	7.250	6.999	.312	.086	7.058	.094	49,200	82,270
WS-737	7.375	7.125	.312	.086	7.183	.094	50,050	83,690
WS-750	7.500	7.250	.312	.086	7.308	.094	50,890	85,110
WS-762	7.625	7.363	.312	.086	7.423	.094	54,440	86,520
WS-775	7.750	7.486	.312	.086	7.548	.094	55,330	87,940
WS-787	7.875	7.611	.312	.086	7.673	.094	56,220	89,360
WS-800	8.000	7.734	.312	.086	7.798	.094	57,110	90,780
WS-825	8.250	7.972	.375	.086	8.038	.094	61,820	93,620
WS-850	8.500	8.220	.375	.086	8.288	.094	63,690	96,450
WS-875	8.750	8.459	.375	.086	8.528	.094	68,650	99,290
WS-900	9.000	8.707	.375	.086	8.778	.094	70,620	102,130
WS-925	9.250	8.945	.375	.086	9.018	.094	75,850	104,960
WS-950	9.500	9.194	.375	.086	9.268	.094	77,900	107,800
WS-975	9.750	9.432	.375	.086	9.508	.094	83,390	110,640
WS-1000	10.000	9.680	.375	.086	9.758	.094	85,530	113,470
WS-1025	10.250	9.918	.375	.086	9.998	.094	91,290	116,310
WS-1050	10.500	10.166	.375	.086	10.248	.094	93,520	119,150
WS-1075	10.750	10.405	.375	.086	10.488	.094	99,540	121,990
WS-1100	11.000	10.653	.375	.086	10.738	.094	101,860	124,820

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.

² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.

³ Based on a safety factor of 3.

⁴ See pages 102-103 for How to Order.