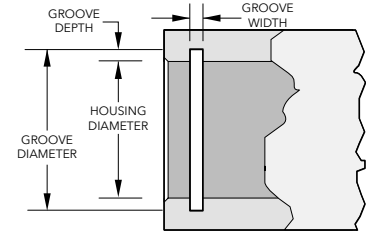
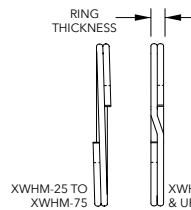
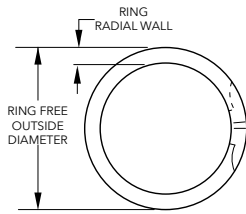




# XWHM Series

## Spirolox® Imperial Heavy Duty Rings Internal

\*Compliance with AS3215, AS4299, MIL-DTL-27426/4



Product Dimensions: All dimensions in inches unless otherwise specified.

TFC Part Number			Housing Diameter		Ring			Groove		Thrust Capacity	
Carbon Steel	Add Suffix		in	mm	Outside Diameter (in)	Radial Wall (in)	Thickness (in)	Diameter (in)	Width (in)	Groove Yield <sup>1</sup> (lb)	Ring Shear <sup>2</sup> (lb)
	302 SS	316 SS									
XWHM-25 <sup>3,4</sup>	-S02	-S16	0,250	6,35	0,270	±0,010/±0,000	0,015	0,268	0,020	159	561
XWHM-31 <sup>3,4</sup>	-S02	-S16	0,312	7,92	0,333	±0,010/±0,000	0,015	0,330	0,020	198	700
XWHM-37 <sup>3,4</sup>	-S02	-S16	0,375	9,53	0,400	±0,012/±0,000	0,025	0,397	0,029	292	1,442
XWHM-43 <sup>4</sup>	-S02	-S16	0,437	11,10	0,464	±0,012/±0,000	0,025	0,461	0,029	371	1,680
XWHM-50	-S02	-S16	0,500	12,70	0,538	±0,013/±0,000	0,035	0,530	±0,002	530	2,530
XWHM-51	-S02	-S16	0,512	13,00	0,550	±0,013/±0,000	0,035	0,542	±0,002	540	2,590
XWHM-56	-S02	-S16	0,562	14,27	0,605	±0,013/±0,000	0,035	0,596	±0,002	680	2,840
XWHM-62	-S02	-S16	0,625	15,88	0,675	±0,013/±0,000	0,035	0,665	±0,002	880	3,160
XWHM-68	-S02	-S16	0,688	17,48	0,743	±0,013/±0,000	0,035	0,732	±0,002	1,070	3,480
XWHM-75	-S02	-S16	0,750	19,05	0,807	±0,013/±0,000	0,035	0,796	±0,002	1,220	3,790
XWHM-77	-S02	-S16	0,777	19,74	0,836	±0,013/±0,000	0,042	0,825	±0,002	1,320	4,720
XWHM-81	-S02	-S16	0,812	20,62	0,873	±0,013/±0,000	0,042	0,862	±0,002	1,440	4,930
XWHM-86	-S02	-S16	0,866	22,00	0,931	±0,013/±0,000	±0,002	0,920	±0,003	1,650	5,260
XWHM-87	-S02	-S16	0,875	22,23	0,943	±0,013/±0,000	±0,002	0,931	±0,003	1,730	5,310
XWHM-90	-S02	-S16	0,901	22,89	0,972	±0,013/±0,000	±0,002	0,959	±0,003	1,850	5,470
XWHM-93	-S02	-S16	0,938	23,83	1,013	±0,013/±0,000	±0,002	1,000	±0,003	2,060	5,690
XWHM-100	-S02	-S16	1,000	25,40	1,080	±0,013/±0,000	±0,002	1,066	±0,003	2,330	6,070
XWHM-102	-S02	-S16	1,023	25,98	1,105	±0,013/±0,000	±0,002	1,091	±0,003	2,460	6,210
XWHM-106	-S02	-S16	1,062	26,97	1,138	±0,013/±0,000	±0,002	1,130	±0,003	2,550	7,010
XWHM-112	-S02	-S16	1,125	28,58	1,205	±0,013/±0,000	±0,002	1,197	±0,003	2,860	7,420
XWHM-118	-S02	-S16	1,188	30,18	1,271	±0,013/±0,000	±0,002	1,262	±0,003	3,110	7,840
XWHM-125	-S02	-S16	1,250	31,75	1,339	±0,013/±0,000	±0,002	1,330	±0,003	3,530	8,250
XWHM-131	-S02	-S16	1,312	33,32	1,406	±0,013/±0,000	±0,002	1,396	±0,003	3,900	8,660
XWHM-137	-S02	-S16	1,375	34,93	1,471	±0,013/±0,000	±0,002	1,461	±0,003	4,180	9,070
XWHM-143	-S02	-S16	1,439	36,55	1,539	±0,013/±0,000	±0,002	1,528	±0,003	4,580	9,490
XWHM-145	-S02	-S16	1,456	36,98	1,559	±0,013/±0,000	±0,002	1,548	±0,003	4,730	9,610
XWHM-150	-S02	-S16	1,500	38,10	1,605	±0,013/±0,000	±0,002	1,594	±0,003	4,980	9,900
XWHM-156	-S02	-S16	1,562	39,67	1,675	±0,013/±0,000	±0,002	1,658	±0,003	5,300	12,780
XWHM-162	-S02	-S16	1,625	41,28	1,742	±0,013/±0,000	±0,002	1,725	±0,003	5,740	13,290
XWHM-165	-S02	-S16	1,653	41,99	1,772	±0,013/±0,000	±0,002	1,755	±0,003	5,960	13,520
XWHM-168	-S02	-S16	1,688	42,88	1,810	±0,013/±0,000	±0,002	1,792	±0,003	6,210	13,810
XWHM-175	-S02	-S16	1,750	44,45	1,876	±0,013/±0,000	±0,002	1,858	±0,003	6,680	14,320
XWHM-181	-S02	-S16	1,812	46,02	1,940	±0,013/±0,000	±0,002	1,922	±0,003	7,050	14,820
XWHM-185	-S02	-S16	1,850	46,99	1,981	±0,013/±0,000	±0,002	1,962	±0,003	7,320	15,130
XWHM-187	-S02	-S16	1,875	47,63	2,008	±0,013/±0,000	±0,002	1,989	±0,003	7,560	15,340
XWHM-193	-S02	-S16	1,938	49,23	2,075	±0,013/±0,000	±0,002	2,056	±0,003	8,080	15,850
XWHM-200	-S02	-S16	2,000	50,80	2,142	±0,013/±0,000	±0,002	2,122	±0,003	8,620	16,360
XWHM-206	-S02	-S16	2,062	52,37	2,201	±0,013/±0,000	±0,002	2,186	±0,003	9,040	21,220
XWHM-212	-S02	-S16	2,125	53,98	2,267	±0,013/±0,000	±0,002	2,251	±0,003	9,460	21,870
XWHM-218	-S02	-S16	2,188	55,58	2,334	±0,013/±0,000	±0,002	2,318	±0,003	10,050	22,520
XWHM-225	-S02	-S16	2,250	57,15	2,399	±0,013/±0,000	±0,002	2,382	±0,003	10,500	23,160
XWHM-231	-S02	-S16	2,312	58,72	2,467	±0,013/±0,000	±0,002	2,450	±0,003	11,280	23,800
XWHM-237	-S02	-S16	2,375	60,33	2,535	±0,013/±0,000	±0,002	2,517	±0,003	11,920	24,440
XWHM-244	-S02	-S16	2,440	61,98	2,602	±0,013/±0,000	±0,002	2,584	±0,003	12,420	25,110
XWHM-250	-S02	-S16	2,500	63,50	2,667	±0,013/±0,000	±0,002	2,648	±0,003	13,080	25,730
XWHM-253	-S02	-S16	2,531	64,29	2,700	±0,013/±0,000	±0,002	2,681	±0,003	13,420	26,050
XWHM-256	-S02	-S16	2,562	65,07	2,733	±0,013/±0,000	±0,002	2,714	±0,003	13,760	29,940
XWHM-262	-S02	-S16	2,625	66,68	2,801	±0,013/±0,000	±0,002	2,781	±0,003	14,470	30,680
XWHM-268	-S02	-S16	2,688	68,28	2,868	±0,013/±0,000	±0,002	2,848	±0,003	15,200	31,410
XWHM-275	-S02	-S16	2,750	69,85	2,934	±0,013/±0,000	±0,002	2,914	±0,003	15,940	32,140

<sup>1</sup> Based on a groove material yield strength of 45000 psi and a safety factor of 2.

<sup>2</sup> Based on a safety factor of 3.

<sup>3</sup> No removal notch.

<sup>4</sup> Square edge wire.

\* Contact TFC for details/information on how to order parts to be in compliance with this specification.



## Spirolox® Imperial Heavy Duty Rings Internal Continued

TFC Part Number			Housing Diameter		Ring			Groove		Thrust Capacity		
Carbon Steel	Add Suffix		in	mm	Outside Diameter (in)	Radial Wall (in)	Thickness (in)	Diameter (in)	Width (in)	Groove Yield <sup>1</sup> (lb)	Ring Shear <sup>2</sup> (lb)	
	302 SS	316 SS										
XWHM-281	-S02	-S16	2,813	71,45	3,001	+0,030/-0,000	0,225	0,093	2,980	0,103	16,700	32,880
XWHM-283	-S02	-S16	2,834	71,98	3,027		0,225	0,093	3,006	0,103	17,230	33,120
XWHM-287	-S02	-S16	2,875	73,03	3,072		0,225	0,093	3,051	0,103	17,880	33,600
XWHM-300	-S02	-S16	3,000	76,20	3,204		0,225	0,093	3,182	0,103	18,300	35,060
XWHM-306	-S02	-S16	3,062	77,77	3,271		0,281	0,111	3,248	0,120	20,130	42,710
XWHM-312	-S02	-S16	3,125	79,38	3,338		0,281	0,111	3,315	0,120	20,990	43,590
XWHM-315	-S02	-S16	3,157	80,19	3,371		0,281	0,111	3,348	0,120	21,420	44,040
XWHM-325	-S02	-S16	3,250	82,55	3,470		0,281	0,111	3,446	0,120	22,510	45,330
XWHM-334	-S02	-S16	3,346	84,99	3,571		0,281	0,111	3,546	0,120	23,650	46,670
XWHM-347	-S02	-S16	3,464	87,99	3,701		0,281	0,111	3,675	0,120	25,710	48,320
XWHM-350	-S02	-S16	3,500	88,90	3,736		0,281	0,111	3,710	0,120	25,980	48,820
XWHM-354	-S02	-S16	3,543	89,99	3,781		0,281	0,111	3,755	0,120	26,550	49,420
XWHM-356	-S02	-S16	3,562	90,47	3,802		0,281	0,111	3,776	0,120	26,940	49,690
XWHM-362	-S02	-S16	3,625	92,08	3,868		0,281	0,111	3,841	0,120	27,670	50,560
XWHM-375	-S02	-S16	3,750	95,25	4,002		0,312	0,111	3,974	0,120	29,690	52,310
XWHM-387	-S02	-S16	3,875	98,43	4,136		0,312	0,111	4,107	0,120	31,770	54,050
XWHM-393	-S02	-S16	3,938	100,03	4,203		0,312	0,111	4,174	0,120	32,850	54,930
XWHM-400	-S02	-S16	4,000	101,60	4,270		0,312	0,111	4,240	0,120	33,930	55,800
XWHM-412	-S02	-S16	4,125	104,78	4,369		0,312	0,111	4,339	0,120	34,990	57,540
XWHM-425	-S02	-S16	4,250	107,95	4,501		0,312	0,111	4,470	0,120	36,050	59,280
XWHM-433	-S02	-S16	4,330	109,98	4,588		0,312	0,111	4,556	0,120	36,730	60,400
XWHM-450	-S02	-S16	4,500	114,30	4,768		0,312	0,111	4,735	0,120	38,170	62,770
XWHM-462	-S02	-S16	4,625	117,48	4,899		0,312	0,111	4,865	0,120	39,230	64,510
XWHM-475	-S02	-S16	4,750	120,65	5,030		0,312	0,111	4,995	0,120	41,300	66,260
XWHM-500	-S02	-S16	5,000	127,00	5,297		0,312	0,111	5,260	0,120	45,950	69,740
XWHM-525	-S02	-S16	5,250	133,35	5,559		0,350	0,127	5,520	0,139	50,100	83,790
XWHM-537	-S02	-S16	5,375	136,53	5,690		0,350	0,127	5,650	0,139	51,290	85,780
XWHM-550	-S02	-S16	5,500	139,70	5,810		0,350	0,127	5,770	0,139	52,480	87,780
XWHM-575	-S02	-S16	5,750	146,05	6,062		0,350	0,127	6,020	0,139	54,870	91,770
XWHM-600	-S02	-S16	6,000	152,40	6,314		0,350	0,127	6,270	0,139	57,260	95,760
XWHM-625	-S02	-S16	6,250	158,75	6,576		0,380	0,156	6,530	0,174	61,850	122,520
XWHM-650	-S02	-S16	6,500	165,10	6,838		0,380	0,156	6,790	0,174	66,620	127,420
XWHM-662	-S02	-S16	6,625	168,28	6,974		0,380	0,156	6,925	0,174	70,240	129,870
XWHM-675	-S02	-S16	6,750	171,45	7,105		0,380	0,156	7,055	0,174	73,000	132,320
XWHM-700	-S02	-S16	7,000	177,80	7,366		0,380	0,156	7,315	0,174	78,180	137,230
XWHM-725	-S02	-S16	7,250	184,15	7,628		0,418	0,187	7,575	0,209	83,530	170,370
XWHM-750	-S02	-S16	7,500	190,50	7,895		0,418	0,187	7,840	0,209	90,120	176,240
XWHM-775	-S02	-S16	7,750	196,85	8,157		0,418	0,187	8,100	0,209	95,870	182,120
XWHM-800	-S02	-S16	8,000	203,20	8,419		0,418	0,187	8,360	0,209	101,790	187,990
XWHM-825	-S02	-S16	8,250	209,55	8,680		0,437	0,187	8,620	0,209	107,880	193,870
XWHM-850	-S02	-S16	8,500	215,90	8,942		0,437	0,187	8,880	0,209	114,160	199,740
XWHM-875	-S02	-S16	8,750	222,25	9,209		0,437	0,187	9,145	0,209	122,460	205,620
XWHM-900	-S02	-S16	9,000	228,60	9,471		0,437	0,187	9,405	0,209	129,140	211,490
XWHM-925	-S02	-S16	9,250	234,95	9,737		0,437	0,187	9,669	0,209	137,310	217,370
XWHM-950	-S02	-S16	9,500	241,30	10,000		0,500	0,187	9,930	0,209	144,380	223,240
XWHM-975	-S02	-S16	9,750	247,65	10,260		0,500	0,187	10,189	0,209	150,620	229,120
XWHM-1000	-S02	-S16	10,000	254,00	10,523		0,500	0,187	10,450	0,209	159,040	234,990
XWHM-1025	-S02	-S16	10,250	260,35	10,786		0,500	0,187	10,711	0,209	167,370	240,870
XWHM-1050	-S02	-S16	10,500	266,70	11,047		0,500	0,187	10,970	0,209	174,420	246,740
XWHM-1075	-S02	-S16	10,750	273,05	11,313		0,500	0,187	11,234	0,209	183,890	252,620
XWHM-1100	-S02	-S16	11,000	279,40	11,575		0,500	0,187	11,495	0,209	192,830	258,490
XWHM-1125	-S02	-S16	11,250	285,75	11,838		0,500	0,187	11,756	0,209	201,190	264,370
XWHM-1150	-S02	-S16	11,500	292,10	12,102		0,562	0,187	12,018	0,209	210,540	270,240
XWHM-1175	-S02	-S16	11,750	298,45	12,365		0,562	0,187	12,279	0,209	220,100	276,120
XWHM-1200	-S02	-S16	12,000	304,80	12,628		0,562	0,187	12,540	0,209	229,020	281,990
XWHM-1225	-S02	-S16	12,250	311,15	12,891		0,562	0,187	12,801	0,209	238,990	287,860
XWHM-1250	-S02	-S16	12,500	317,50	13,154		0,562	0,187	13,063	0,209	249,170	293,740
XWHM-1275	-S02	-S16	12,750	323,85	13,417		0,562	0,187	13,324	0,209	258,660	299,610
XWHM-1300	-S02	-S16	13,000	330,20	13,680		0,662	0,187	13,585	0,209	269,240	305,490
XWHM-1325	-S02	-S16	13,250	336,55	13,943		0,662	0,187	13,846	0,209	279,100	311,360
XWHM-1350	-S02	-S16	13,500	342,90	14,207		0,662	0,187	14,108	0,209	290,100	317,240
XWHM-1375	-S02	-S16	13,750	349,25	14,470		0,662	0,187	14,369	0,209	301,300	323,110
XWHM-1400	-S02	-S16	14,000	355,60	14,732		0,662	0,187	14,630	0,209	311,730	328,990
XWHM-1425	-S02	-S16	14,250	361,95	14,995		0,662	0,187	14,891	0,209	323,340	334,860
XWHM-1450	-S02	-S16	14,500	368,30	15,259		0,750	0,187	15,153	0,209	335,160	340,740
XWHM-1475	-S02	-S16	14,750	374,65	15,522		0,750	0,187	15,414	0,209	346,150	346,610
XWHM-1500	-S02	-S16	15,000	381,00	15,785		0,750	0,187	15,675	0,209	358,380	352,490

<sup>1</sup> Based on a groove material yield strength of 45000 psi and a safety factor of 2.<sup>2</sup> Based on a safety factor of 3.

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