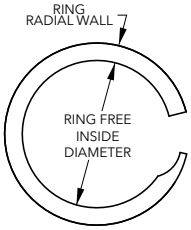
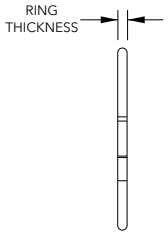
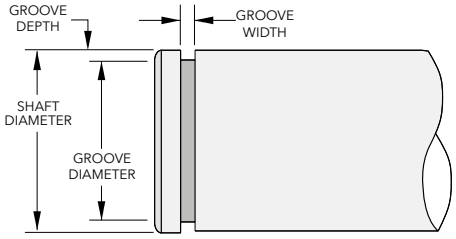
XVSM Series

Spirolox® Metric Light Duty Rings External







Product Dimensions: All dimensions in millimeters unless otherwise specified.

TFC Part Number			Shaft Diameter		Ring			Groove		Thrust Capacity	
Carbon Steel	Add Suffix				Inside Diameter (mm)	Radial Wall (mm)	Thickness (mm)	Diameter (mm)	Width (mm)	Groove Yield[1] (N)	Ring Shear[2] (N)
	302 SS	316 SS	mm	in							
XVSM-6[3,4]	**-S02**	**-S16**	6,00	0,236	5,65 +0,00/-0,25	0,51	0,30	5,70	0,38	439	1,988
XVSM-7[3,4]	**-S02**	**-S16**	7,00	0,276	6,58 +0,00/-0,25	0,51	0,30	6,64	0,38	614	2,234
XVSM-8[3,4]	**-S02**	**-S16**	8,00	0,315	7,52 +0,00/-0,25	0,64	0,38	7,60	0,46	780	3,183
XVSM-9[3,4]	**-S02**	**-S16**	9,00	0,354	8,42 +0,00/-0,25	0,76	0,38	8,50	0,46	1,114	3,580
XVSM-10[3,4]	**-S02**	**-S16**	10,00	0,394	9,32 +0,00/-0,30	0,89	0,38	9,40	0,46	1,462	3,978
XVSM-11[4]	**-S02**	**-S16**	11,00	0,433	10,32 +0,00/-0,30	0,89	0,38	10,40	0,46	1,608	4,376
XVSM-12	**-S02**	**-S16**	12,00	0,472	11,22	1,14	0,46	11,34 ±0,05	0,56	1,930	5,779
XVSM-13	**-S02**	**-S16**	13,00	0,512	12,15	1,14	0,46	12,28	0,56	2,281	6,261
XVSM-14	**-S02**	**-S16**	14,00	0,551	13,15	1,14	0,46	13,28	0,56	2,456	6,742
XVSM-15	**-S02**	**-S16**	15,00	0,591	14,14	1,14	0,46	14,28	0,56	2,632	7,224
XVSM-16	**-S02**	**-S16**	16,00	0,630	15,13	1,14	0,46	15,28	0,56	2,807	7,705
XVSM-17	**-S02**	**-S16**	17,00	0,669	16,13 +0,00/-0,33	1,14	0,46	16,28	0,56	2,983	8,187
XVSM-18	**-S02**	**-S16**	18,00	0,709	17,12	1,14	0,46	17,28	0,56	3,158	8,669
XVSM-19	**-S02**	**-S16**	19,00	0,748	18,11	1,14	0,46 ±0,04	18,28	0,56	3,334	9,150
XVSM-20	**-S02**	**-S16**	20,00	0,787	19,10	1,14	0,46	19,28	0,56	3,509	9,632
XVSM-21	**-S02**	**-S16**	21,00	0,827	19,74	1,65	0,53	19,94	0,66	5,424	11,652
XVSM-22	**-S02**	**-S16**	22,00	0,866	20,73	1,65	0,53	20,94 ±0,08	0,66	5,683	12,207
XVSM-24	**-S02**	**-S16**	24,00	0,945	22,72	1,65	0,53	22,94	0,66	6,199	13,317
XVSM-25	**-S02**	**-S16**	25,00	0,984	23,71	1,65	0,53	23,94	0,66	6,458	13,872
XVSM-26	**-S02**	**-S16**	26,00	1,024	24,63	2,24	0,64	24,88	0,79	7,096	15,138
XVSM-28	**-S02**	**-S16**	28,00	1,102	26,62	2,24	0,64	26,88	0,79	7,642	16,303
XVSM-29	**-S02**	**-S16**	29,00	1,142	27,61	2,24	0,64	27,88	0,79	7,915	16,885
XVSM-30	**-S02**	**-S16**	30,00	1,181	28,59 +0,00/-0,38	2,24	0,64	28,88	0,79	8,188	17,467
XVSM-32	**-S02**	**-S16**	32,00	1,260	30,57	2,24	0,64	30,88 ±0,10	0,79	8,734	18,632
XVSM-34	**-S02**	**-S16**	34,00	1,339	32,56	2,24	0,64	32,88	0,79	9,279	19,796
XVSM-35	**-S02**	**-S16**	35,00	1,378	33,55	2,24 ±0,10	0,64	33,88	0,79	9,552	20,378
XVSM-36	**-S02**	**-S16**	36,00	1,417	34,54	2,24	0,64	34,88	0,79	9,825	20,960
XVSM-38	**-S02**	**-S16**	38,00	1,496	36,52	2,24	0,64	36,88	0,79	10,371	22,125
XVSM-40	**-S02**	**-S16**	40,00	1,575	38,09	3,00	0,79	38,52	0,99	14,426	28,748
XVSM-42	**-S02**	**-S16**	42,00	1,654	40,07	3,00	0,79	40,52	0,99	15,147	30,185
XVSM-45	**-S02**	**-S16**	45,00	1,772	43,04	3,00	0,79	43,52 ±0,13	0,99	16,229	32,341
XVSM-48	**-S02**	**-S16**	48,00	1,890	46,01	3,00	0,79	46,52	0,99	17,311	34,497
XVSM-50	**-S02**	**-S16**	50,00	1,969	47,99 +0,00/-0,51	3,00	0,79	48,52	0,99	18,032	35,935
XVSM-52	**-S02**	**-S16**	52,00	2,047	49,48	4,01	0,79	50,06	0,99	24,583	37,372
XVSM-55	**-S02**	**-S16**	55,00	2,165	52,46	4,01	0,79	53,06	0,99	26,001	39,528
XVSM-56	**-S02**	**-S16**	56,00	2,205	53,44	4,01	0,79	54,06	0,99	26,473	40,247
XVSM-58	**-S02**	**-S16**	58,00	2,283	55,42	4,01	0,79	56,06	0,99	27,419	41,684
XVSM-60	**-S02**	**-S16**	60,00	2,362	57,40	4,01	0,79	58,06	0,99	28,364	43,122
XVSM-62	**-S02**	**-S16**	62,00	2,441	59,37 +0,00/-0,64	4,01	0,79 ±0,05	60,06	0,99	29,310	44,559
XVSM-63	**-S02**	**-S16**	63,00	2,480	60,35	4,01	0,79	61,06	0,99	29,783	45,278
XVSM-65	**-S02**	**-S16**	65,00	2,559	62,33	4,01	0,79	63,06	0,99	30,728	46,715
XVSM-68	**-S02**	**-S16**	68,00	2,677	65,31	4,01	0,79	66,06 ±0,15	0,99	32,146	48,871
XVSM-70	**-S02**	**-S16**	70,00	2,756	67,29	4,01	0,79	68,06	0,99	33,092	50,309
XVSM-72	**-S02**	**-S16**	72,00	2,835	69,27	4,01	0,79	70,06	0,99	34,037	51,746
XVSM-75	**-S02**	**-S16**	75,00	2,953	72,25	4,01	0,79	73,06	0,99	35,456	53,902
XVSM-78	**-S02**	**-S16**	78,00	3,071	74,85	4,78	0,99	75,66	1,12	44,477	70,250
XVSM-80	**-S02**	**-S16**	80,00	3,150	76,82 +0,00/-0,76	4,78	0,99	77,66	1,12	45,617	72,052
XVSM-82	**-S02**	**-S16**	82,00	3,228	78,79	4,78	0,99	79,66	1,12	46,757	73,853
XVSM-85	**-S02**	**-S16**	85,00	3,346	81,76	4,78	0,99	82,66	1,12	48,468	76,555
XVSM-88	**-S02**	**-S16**	88,00	3,465	84,73	4,78	0,99	85,66	1,12	50,179	79,257

[1] Based on a groove material yield strength of 310 N/mm² and a safety factor of 2.
[2] Based on a safety factor of 3.
[3] No removal notch.
[4] Square edge wire.

XVSM Series

Spirolox® Metric Light Duty Rings External Continued

TFC Part Number			Shaft Diameter		Ring			Groove		Thrust Capacity	
Carbon Steel	Add Suffix				Inside Diameter (mm)	Radial Wall (mm)	Thickness (mm)	Diameter (mm)	Width (mm)	Groove Yield[1] (N)	Ring Shear[2] (N)
	302 SS	316 SS	mm	in							
XVSM-90	**-S02**	**-S16**	90,00	3,543	86,69	4,78	0,99	87,66	1,12	51,319	81,058
XVSM-95	**-S02**	**-S16**	95,00	3,740	91,66	4,78	0,99	92,66	1,12	54,170	85,561
XVSM-100	**-S02**	**-S16**	100,00	3,937	96,62	4,78	0,99	97,66	1,12	57,021	90,064
XVSM-105	**-S02**	**-S16**	105,00	4,134	101,13	5,72	1,17	102,20	1,32	71,642	106,440
XVSM-110	**-S02**	**-S16**	110,00	4,331	106,08	5,72	1,17	107,20	1,32	75,054	111,508
XVSM-115	**-S02**	**-S16**	115,00	4,528	111,03	5,72	1,17	112,20	1,32	78,465	116,577
XVSM-120	**-S02**	**-S16**	120,00	4,724	115,98	5,72	1,17	117,20	1,32	81,877	121,645
XVSM-125	**-S02**	**-S16**	125,00	4,921	120,93	5,72	1,17	122,20	1,32	85,288	126,714
XVSM-130	**-S02**	**-S16**	130,00	5,118	125,88	5,72	1,17	127,20	1,32	88,700	131,783
XVSM-135	**-S02**	**-S16**	135,00	5,315	130,31	5,72	1,55	131,63	1,70	111,027	181,299
XVSM-140	**-S02**	**-S16**	140,00	5,512	135,13	5,72	1,55	136,50	1,70	119,404	188,013
XVSM-145	**-S02**	**-S16**	145,00	5,709	139,95	5,72	1,55	141,37	1,70	127,974	194,907
XVSM-150	**-S02**	**-S16**	150,00	5,906	144,83	5,72	1,55	146,25	1,70	137,070	201,443
XVSM-155	**-S02**	**-S16**	155,00	6,102	149,66	5,72	1,55	151,13	1,70	146,361	208,158
XVSM-160	**-S02**	**-S16**	160,00	6,299	154,44	6,73	1,55	156,00	1,70	155,956	214,872
XVSM-165	**-S02**	**-S16**	165,00	6,496	159,27	6,73	1,55	160,88	1,70	165,855	221,587
XVSM-170	**-S02**	**-S16**	170,00	6,693	164,09	6,73	1,55	165,75	1,70	176,059	228,302
XVSM-175	**-S02**	**-S16**	175,00	6,890	168,92	6,73	1,55	170,63	1,70	186,568	235,017
XVSM-180	**-S02**	**-S16**	180,00	7,087	173,75	6,73	1,55	175,50	1,70	197,381	241,731
XVSM-185	**-S02**	**-S16**	185,00	7,283	178,57	7,62	1,55	180,38	1,70	208,499	248,446
XVSM-190	**-S02**	**-S16**	190,00	7,480	183,40	7,62	1,55	185,25	1,70	219,922	255,161
XVSM-195	**-S02**	**-S16**	195,00	7,677	188,22	7,62	1,55	190,13	1,70	231,649	261,876
XVSM-200	**-S02**	**-S16**	200,00	7,874	193,05	7,62	1,55	195,00	1,70	243,681	268,590
XVSM-210	**-S02**	**-S16**	210,00	8,268	202,70	8,76	1,93	204,75	2,08	268,658	351,160
XVSM-220	**-S02**	**-S16**	220,00	8,661	212,36	8,76	1,93	214,50	2,08	294,854	367,882
XVSM-230	**-S02**	**-S16**	230,00	9,055	222,01	8,76	1,93	224,25	2,08	322,268	384,604
XVSM-240	**-S02**	**-S16**	240,00	9,449	231,66	8,76	1,93	234,00	2,08	350,900	401,326
XVSM-250	**-S02**	**-S16**	250,00	9,843	241,31	8,76	1,93	243,75	2,08	380,751	418,048
XVSM-260	**-S02**	**-S16**	260,00	10,236	250,97	9,65	1,93	253,50	2,08	411,821	434,770
XVSM-270	**-S02**	**-S16**	270,00	10,630	260,62	9,65	1,93	263,25	2,08	444,108	451,492
XVSM-280	**-S02**	**-S16**	280,00	11,024	270,27	9,65	1,93	273,00	2,08	477,614	468,214
XVSM-290	**-S02**	**-S16**	290,00	11,417	279,92	9,65	1,93	282,75	2,08	512,339	484,936
XVSM-300	**-S02**	**-S16**	300,00	11,811	289,58	9,65	1,93	292,50	2,08	548,282	501,658

+0,00/-0,76 | +0,00/-0,89 | +0,00/-1,14 | +0,00/-1,52 | +0,00/-1,78 | ±0,13 | ±0,15 | ±0,05 | ±0,15 | ±0,18 | ±0,20 | +0,08/-0,00 | +0,10/-0,00 | +0,13/-0,00

[1] Based on a groove material yield strength of 310 N/mm² and a safety factor of 2.
[2] Based on a safety factor of 3.