

Spiral Retaining Rings

Wave Springs

Constant Section Rings



Zhejiang lisheng spring Co., Ltd

Focus on the design and development of wave spring, spiral retaining rings.



Lisprings®
WUERPAI



Company profile

- our company has an inventory of thousands of products in regular size.
- Our company has introduced the wave spring and spiral retaining ring machine from Japan, and wave spring design software system from Germany, so we can produce the non-standard products you need quickly without making extra molds.
- The company has successfully passed ISO9001 and IATF16949 quality management system certification.

Certification

- ISO 9001
- ISO 14001
- IATF 16949



Spiral Retaining Rings

Advantages

Spiral Retaining rings are manufactured by coiling the ring from flat wire. This unique process produces a retaining ring that has no protruding ears or burrs to interfere with your assembly. Because coiling produces a retaining ring with no scrap, the Ring can be economically produced in carbon steel, stainless steel, coppers, and many other alloys.

- No gap - 360° retaining surface
- No protruding ears to interfere with mating components (uniform cross-section)
- Economically produced in stainless steel because the coiling process produces no scrap
- Easy installation and removal

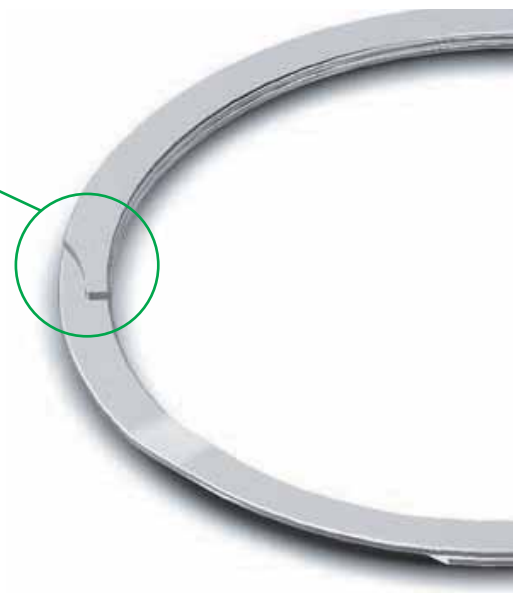


Housing



Shaft

No gap - 360° retaining surface



Spiral retaining rings Material

According to the purpose can be divided into housing and shaft rings.
High carbon tempered spring steel and stainless steel 302 are standard material for spiral retaining rings .

Light Duty Rings



Light Duty Rings
for housing



Light Duty Rings
for shaft

Medium Duty Rings



Medium Duty Rings
for housing



Medium Duty Rings
for shaft

Heavy Duty Rings



Heavy Duty Rings
for housing



Heavy Duty Series
for shaft

Spiral retaining rings Assembly Methods

Housing

Single Turn



2-Turn



Shaft

Single Turn

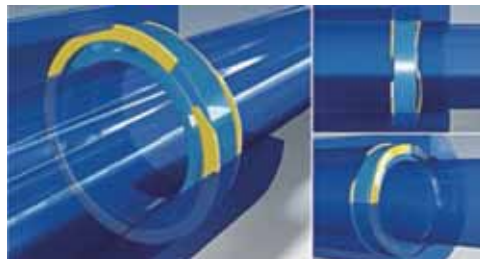
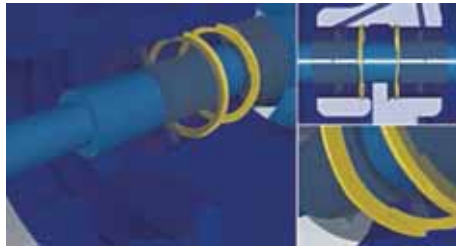


2-Turn



Spiral retaining rings

Ring Applications

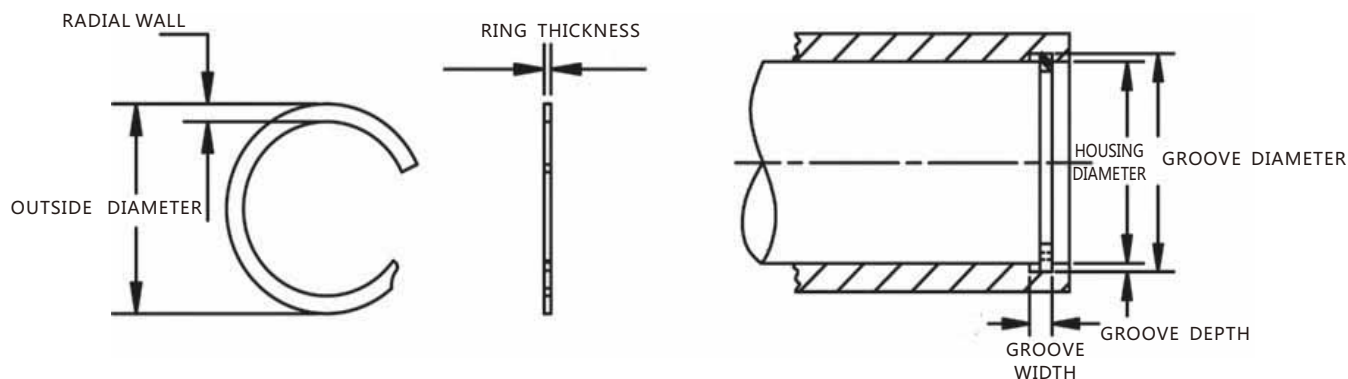


Removal

- Insert a screwdriver or dental pick behind the removal notch.
- Use the tool to pry out the first end of the ring.
- Manually spiral the ring around until it is free from the groove



VKM Series-metric Internal Single Turn Rings-light duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
VKM-6	6.00	6.30	.38	6.35	+.25	.51	439	1,988
VKM-7	7.00	7.32	.38	7.38	/.00	.51	546	2,320
VKM-8	8.00	8.36	.46	8.44		.64	702	3,183
VKM-9	9.00	9.46	.46	9.54		.76	1,003	3,580
VKM-10	10.00	10.50	.46	10.58		.76	1,238	3,978
VKM-11	11.00	11.60	.46	11.68	+.30	.89	1,634	4,388
VKM-12	12.00	12.66	.46	12.74	/.00	.89	1,930	4,774
VKM-13	13.00	13.72	.56	13.80		1.14	2,281	6,261
VKM-14	14.00	14.72	.56	14.80		1.14	2,456	6,742
VKM-15	15.00	15.72	.56	15.80		1.14	2,632	7,224
VKM-16	16.00	16.72	.56	16.80		1.14	2,807	7,705
VKM-17	17.00	17.72	.56	17.82		1.14	2,983	8,187
VKM-18	18.00	18.72	.56	18.82		1.14	3,158	8,669
VKM-19	19.00	19.76	.56	19.86	+.33	1.14	3,519	9,150
VKM-20	20.00	21.06	.66	21.26	/.00	1.65	5,166	11,097
VKM-21	21.00	22.06	.66	22.27		1.65	5,424	11,652
VKM-22	22.00	23.06	.66	23.28		1.65	5,683	12,207
VKM-24	24.00	25.06	.66	25.29		1.65	6,199	13,317
VKM-25	25.00	26.06	.66	26.30		1.65	6,458	13,872
VKM-26	26.00	27.06	.66	27.31		1.65	6,716	14,427
VKM-28	28.00	29.12	.79	29.40		2.24	7,642	16,303
VKM-29	29.00	30.12	.79	30.41		2.24	7,915	16,885
VKM-30	30.00	31.12	.79	31.42		2.24	8,188	17,467
VKM-31	31.00	32.12	.79	32.43		2.24	8,461	18,049
VKM-32	32.00	33.12	.79	33.44	+.38	2.24	8,734	18,632
VKM-34	34.00	35.12	.79	35.45	/.00	2.24	9,279	19,796
VKM-35	35.00	36.12	.79	36.47		2.24	9,552	20,378
VKM-36	36.00	37.12	.79	37.48		2.24	9,825	20,960
VKM-37	37.00	38.12	.79	38.49		2.24	10,098	21,543
VKM-38	38.00	39.12	.79	39.50		2.24	10,371	22,125
VKM-40	40.00	41.48	.99	41.94		3.00	14,426	28,748
VKM-42	42.00	43.48	.99	43.96		3.00	15,147	30,185
VKM-45	45.00	46.48	.99	46.99		3.00	16,229	32,341
VKM-47	47.00	48.48	.99	49.00	+.51	3.00	16,950	33,779
VKM-48	48.00	49.48	.99	50.01	/.00	3.00	17,311	34,497
VKM-50	50.00	51.48	.99	52.04		3.00	18,032	35,935
VKM-52	52.00	53.94	.99	54.55		4.01	24,583	37,372
VKM-55	55.00	56.94	.99	57.57		4.01	26,001	39,528
VKM-56	56.00	57.94	.99	58.58		4.01	26,473	40,247
VKM-58	58.00	59.94	.99	60.60		4.01	27,419	41,684
VKM-60	60.00	61.94	.99	62.64		4.01	28,364	43,122
VKM-62	62.00	63.94	.99	64.67		4.01	29,310	44,559
VKM-63	63.00	64.94	.99	65.69	+.64	4.01	29,783	45,278
VKM-65	65.00	66.94	.99	67.70	/.00	4.01	30,728	46,715
VKM-68	68.00	69.94	.99	70.72		4.01	32,146	48,871
VKM-70	70.00	71.94	.99	72.74		4.01	33,092	50,309
VKM-72	72.00	73.94	.99	74.77		4.01	34,037	51,746
VKM-75	75.00	76.94	.99	77.80		4.01	35,456	53,902

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

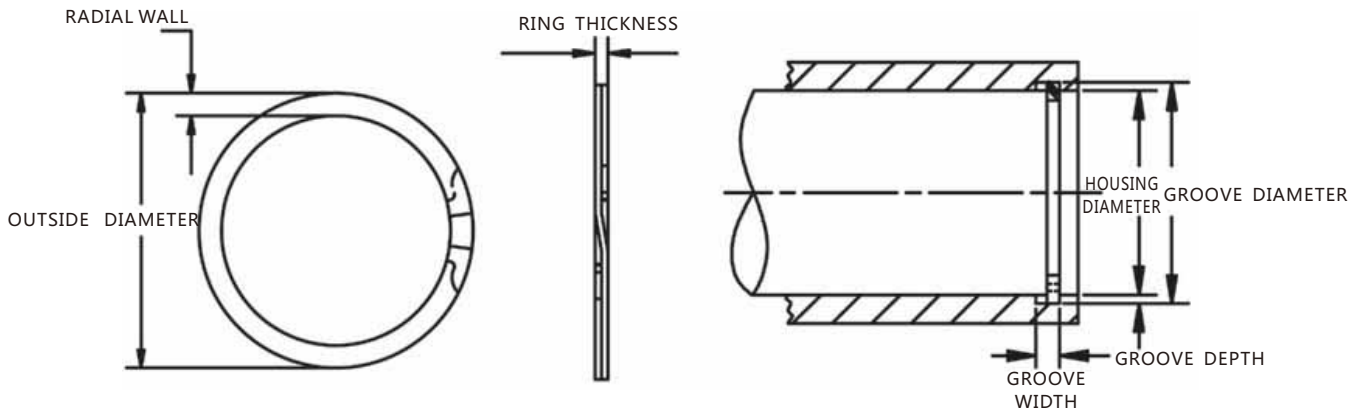
VKM Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
VKM-78	78.00	80.34	1.12	81.20	4.78	.99	44,477	70,250
VKM-80	80.00	82.34	1.12	83.23	4.78	.99	45,617	72,052
VKM-82	82.00	84.34	1.12	85.25	4.78	.99	46,757	73,853
VKM-85	85.00	87.34	1.12	88.29	4.78	.99	48,468	76,555
VKM-88	88.00	90.34	1.12	91.32	4.78	.99	50,179	79,257
VKM-90	90.00	92.34	1.12	93.36	4.78	.99	51,319	81,058
VKM-92	92.00	94.34	1.12	95.37	4.78	.99	52,460	82,859
VKM-95	95.00	97.34	1.12	98.39	4.78	.99	54,170	85,561
VKM-98	98.00	100.34	1.12	101.41	4.78	.99	55,881	88,263
VKM-100	100.00	102.34	1.12	103.43	4.78	.99	57,021	90,064
VKM-102	102.00	104.34	1.12	105.44	4.78	.99	58,162	91,866
VKM-105	105.00	107.80	1.32	108.92	5.72	1.17	71,642	106,440
VKM-110	110.00	112.80	1.32	113.98	5.72	1.17	75,054	111,508
VKM-112	112.00	114.80	1.32	116.01	5.72	1.17	76,418	113,536
VKM-115	115.00	117.88	1.32	119.12	5.72	1.17	80,707	116,577
VKM-120	120.00	123.00	1.32	124.30	5.72	1.17	87,725	121,645
VKM-125	125.00	128.12	1.32	129.47	5.72	1.17	95,036	126,714
VKM-130	130.00	133.26	1.32	134.66	5.72	1.17	103,272	131,783
VKM-135	135.00	138.38	1.70	139.83	5.72	1.55	111,192	181,299
VKM-140	140.00	143.50	1.70	145.00	5.72	1.55	119,404	188,013
VKM-145	145.00	148.62	1.70	150.17	5.72	1.55	127,974	194,907
VKM-150	150.00	153.76	1.70	155.30	6.73	1.55	137,436	201,443
VKM-155	155.00	158.88	1.70	160.46	6.73	1.55	146,361	208,158
VKM-160	160.00	164.00	1.70	165.64	6.73	1.55	155,956	214,872
VKM-165	165.00	169.13	1.70	170.82	6.73	1.55	165,855	221,587
VKM-170	170.00	174.25	1.70	175.99	6.73	1.55	176,059	228,302
VKM-175	175.00	179.38	1.70	181.17	6.73	1.55	186,568	235,017
VKM-180	180.00	184.50	1.70	186.35	6.73	1.55	197,381	241,731
VKM-185	185.00	189.63	1.70	191.52	6.73	1.55	208,499	248,446
VKM-190	190.00	194.75	1.70	196.70	6.73	1.55	219,922	255,161
VKM-195	195.00	199.88	1.70	201.87	7.62	1.55	231,649	261,876
VKM-200	200.00	205.00	1.70	207.05	7.62	1.55	243,681	268,590
VKM-210	210.00	215.25	1.70	217.40	7.62	1.55	268,658	282,020
VKM-220	220.00	225.50	2.08	227.76	8.76	1.93	294,854	367,882
VKM-230	230.00	235.75	2.08	238.11	8.76	1.93	322,268	384,604
VKM-240	240.00	246.00	2.08	248.46	8.76	1.93	350,900	401,326
VKM-250	250.00	256.25	2.08	258.81	8.76	1.93	380,751	418,048
VKM-260	260.00	266.50	2.08	269.17	9.65	1.93	411,821	434,770
VKM-270	270.00	276.75	2.08	279.52	9.65	1.93	444,108	451,492
VKM-280	280.00	287.00	2.08	289.87	9.65	1.93	477,614	468,214
VKM-290	290.00	297.25	2.08	300.22	9.65	1.93	512,339	484,936
VKM-300	300.00	307.50	2.08	310.58	9.65	1.93	548,282	501,658

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

EK Series-Metric Internal 2-Turn Rings Medium-Heavy Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
EK-6	6.00	6.30	.51	6.35	.33 - .53	.38	440	1,880
EK-7	7.00	7.32	.51	7.37	.33 - .53	.38	550	2,190
EK-8	8.00	8.43	.51	8.51	.51 - .71	.38	840	2,500
EK-9	9.00	9.50	.74	9.60	.64 - .84	.64	1,100	4,740
EK-10	10.00	10.52	.74	10.62	.64 - .84	.64	1,270	5,270
EK-11	11.00	11.71	.74	11.79	.76 - .96	.64	1,900	5,790
EK-12	12.00	12.70	.70	12.89	1.02 - 1.22	.60	2,050	7,950
EK-13	13.00	13.75	1.00	13.95	1.02 - 1.22	.89	2,410	12,110
EK-14	14.00	14.85	1.00	15.07	1.27 - 1.47	.89	2,930	13,040
EK-15	15.00	15.90	1.00	16.14	1.27 - 1.47	.89	3,290	13,970
EK-16	16.00	16.95	1.00	17.15	1.27 - 1.47	.89	3,740	14,900
EK-17	17.00	18.05	1.00	18.32	1.52 - 1.73	.89	4,390	15,830
EK-18	18.00	19.10	1.00	19.39	1.52 - 1.73	.89	4,820	16,760
EK-19	19.00	20.17	1.00	20.48	1.52 - 1.73	.89	5,460	17,690
EK-20	20.00	21.22	1.00	21.51	1.78 - 1.98	.89	5,940	18,620
EK-21	21.00	22.27	1.00	22.56	1.78 - 1.98	.89	6,550	19,550
EK-22	22.00	23.37	1.20	23.65	1.78 - 1.98	1.07	7,390	24,630
EK-23	23.00	24.42	1.20	24.69	2.03 - 2.24	1.07	7,950	25,750
EK-24	24.00	25.47	1.20	25.73	2.03 - 2.24	1.07	8,650	26,870
EK-25	25.00	26.67	1.20	27.03	2.03 - 2.24	1.07	10,230	27,990
EK-26	26.00	27.77	1.20	28.07	2.03 - 2.24	1.07	11,270	29,110
EK-27	27.00	28.87	1.40	29.11	2.49 - 2.69	1.27	12,360	31,170
EK-28	28.00	29.87	1.40	30.10	2.49 - 2.69	1.27	12,820	32,330
EK-29	29.00	30.95	1.40	31.21	2.49 - 2.69	1.27	13,840	33,480
EK-30	30.00	32.00	1.40	32.28	2.49 - 2.69	1.27	14,610	34,640
EK-31	31.00	33.05	1.40	33.32	2.49 - 2.69	1.27	15,550	35,790
EK-32	32.00	34.00	1.40	34.23	2.49 - 2.69	1.27	15,880	36,950
EK-34	34.00	36.20	1.40	36.46	2.87 - 3.07	1.27	18,210	39,260
EK-35	35.00	37.30	1.40	37.55	2.87 - 3.07	1.27	19,600	40,410
EK-36	36.00	38.40	1.40	38.68	2.87 - 3.07	1.27	21,040	41,560
EK-37	37.00	39.40	1.40	39.60	2.87 - 3.07	1.27	21,620	42,720
EK-38	38.00	40.50	1.40	40.77	2.87 - 3.07	1.27	23,130	43,870
EK-40	40.00	42.50	1.75	42.91	3.12 - 3.33	1.57	24,350	57,090
EK-42	42.00	44.60	1.75	45.01	3.12 - 3.33	1.57	26,590	59,950
EK-45	45.00	47.70	1.75	48.13	3.12 - 3.33	1.57	29,590	64,230
EK-46	46.00	48.80	1.75	49.28	3.12 - 3.33	1.57	31,370	65,660
EK-47	47.00	49.90	1.75	50.32	3.89 - 4.09	1.57	33,190	67,080
EK-48	48.00	51.00	1.75	51.46	3.89 - 4.09	1.57	35,070	68,510
EK-50	50.00	53.20	1.75	53.66	3.89 - 4.09	1.57	38,960	71,370
EK-52	52.00	53.79	1.42	54.30	3.12 - 3.33	1.25	22,790	59,090
EK-53	53.00	54.79	1.42	55.32	3.12 - 3.33	1.25	23,230	60,230
EK-55	55.00	56.85	1.42	57.38	3.38 - 3.58	1.25	24,910	62,500
EK-56	56.00	57.85	1.42	58.40	3.38 - 3.58	1.25	25,360	63,640
EK-58	58.00	59.85	1.42	60.43	3.38 - 3.58	1.25	26,270	65,910
EK-59	59.00	60.93	1.42	61.54	3.38 - 3.58	1.25	27,870	67,050
EK-60	60.00	61.99	1.42	62.57	3.38 - 3.58	1.25	29,220	68,180

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

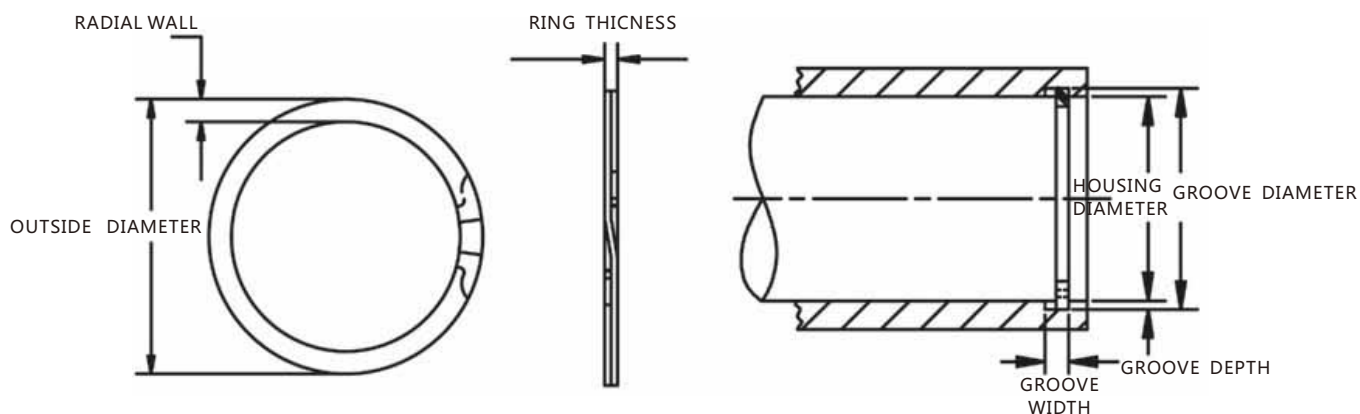
EK Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
EK-61	61.00	63.09	1.42	63.65	3.63 - 3.84	1.25	31,190	69,320
EK-62	62.00	64.09	1.42	64.70	3.63 - 3.84	1.25	31,700	70,460
EK-63	63.00	65.09	1.42	65.70	3.63 - 3.84	1.25	32,220	71,590
EK-64	64.00	66.19	1.42	66.77	3.63 - 3.84	1.25	34,290	72,730
EK-65	65.00	67.19	1.42	67.82	3.63 - 3.84	1.25	34,820	73,870
EK-66	66.00	68.19	1.42	68.80	3.63 - 3.84	1.25	35,360	75,000
EK-67	67.00	69.25	1.42	69.90	3.63 - 3.84	1.25	36,870	76,140
EK-68	68.00	70.29	1.42	70.94	3.89 - 4.09	1.25	38,090	77,270
EK-69	69.00	71.29	1.42	71.94	3.89 - 4.09	1.25	38,650	78,410
EK-70	70.00	72.29	1.42	72.94	3.89 - 4.09	1.25	39,210	79,550
EK-71	71.00	73.29	1.42	73.99	3.89 - 4.09	1.25	39,770	80,680
EK-72	72.00	74.39	1.42	75.04	4.11 - 4.39	1.25	40,910	81,510
EK-75	75.00	77.39	1.42	78.07	4.11 - 4.39	1.25	43,830	85,230
EK-78	78.00	80.45	1.73	81.21	4.11 - 4.39	1.55	46,730	109,910
EK-80	80.00	82.49	1.73	83.22	4.37 - 4.62	1.55	48,700	112,730
EK-82	82.00	84.55	1.73	85.28	4.37 - 4.62	1.55	51,120	115,550
EK-85	85.00	87.65	1.73	88.38	4.62 - 4.88	1.55	55,060	119,780
EK-88	88.00	90.69	1.73	91.45	4.62 - 4.88	1.55	57,860	124,000
EK-90	90.00	92.79	1.73	93.58	4.88 - 5.13	1.55	61,370	126,820
EK-92	92.00	94.85	1.73	95.66	4.88 - 5.13	1.55	64,070	129,640
EK-95	95.00	97.85	1.73	98.69	4.88 - 5.13	1.55	66,160	133,870
EK-98	98.00	100.99	1.73	101.83	5.13 - 5.38	1.55	71,590	138,090
EK-100	100.00	102.99	1.73	103.83	5.13 - 5.38	1.55	73,050	140,910
EK-102	102.00	105.15	1.73	106.00	5.38 - 5.64	1.55	78,490	143,730
EK-105	105.00	108.15	1.73	109.00	5.38 - 5.64	1.55	80,800	147,960
EK-108	108.00	111.31	1.73	112.22	5.64 - 5.89	1.55	87,310	152,190
EK-110	110.00	113.31	1.73	114.25	5.64 - 5.89	1.55	92,140	155,000
EK-112	112.00	115.45	1.73	116.44	5.89 - 6.15	1.55	94,370	157,820
EK-115	115.00	118.45	1.73	119.44	5.89 - 6.15	1.55	96,890	162,050
EK-120	120.00	123.55	2.00	124.54	6.20 - 6.45	1.83	104,030	199,640
EK-125	125.00	128.55	2.00	129.59	6.20 - 6.45	1.83	108,360	207,960
EK-130	130.00	133.65	2.00	134.71	6.20 - 6.45	1.83	115,860	216,280
EK-135	135.00	138.62	2.00	139.74	6.20 - 6.45	1.83	119,000	224,600
EK-140	140.00	143.72	2.00	144.87	6.20 - 6.45	1.83	126,820	232,920
EK-145	145.00	148.82	2.00	150.04	6.20 - 6.45	1.83	134,880	241,230
EK-150	150.00	153.82	2.00	155.07	6.20 - 6.45	1.83	139,530	249,550
EK-155	155.00	159.40	2.40	160.72	7.72 - 8.03	2.18	166,080	307,190
EK-160	160.00	164.40	2.40	165.74	7.72 - 8.03	2.18	171,433	317,100
EK-165	165.00	169.40	2.40	170.77	7.72 - 8.03	2.18	176,790	327,010
EK-170	170.00	174.60	2.40	176.05	7.72 - 8.03	2.18	190,430	336,920
EK-175	175.00	179.60	2.40	181.05	7.72 - 8.03	2.18	196,030	346,830
EK-180	180.00	184.88	2.40	186.38	7.72 - 8.03	2.18	213,900	356,740
EK-185	185.00	189.88	2.40	191.10	7.72 - 8.03	2.18	219,840	366,650
EK-190	190.00	194.88	2.40	196.45	7.72 - 8.03	2.18	225,790	376,560
EK-195	195.00	200.14	2.40	201.74	7.72 - 8.03	2.18	244,070	386,460
EK-200	200.00	205.14	2.40	206.76	7.72 - 8.03	2.18	250,330	396,370
EK-210	210.00	215.40	2.40	217.10	9.32 - 9.63	2.18	276,140	416,490
EK-220	220.00	225.64	2.40	227.40	9.32 - 9.63	2.18	257,150	436,010
EK-230	230.00	235.90	2.40	237.73	9.32 - 9.63	2.18	330,450	455,830
EK-240	240.00	245.90	2.40	247.80	9.32 - 9.63	2.18	344,810	475,650
EK-250	250.00	256.16	2.40	258.10	9.32 - 9.63	2.18	375,010	495,470
EK-260	260.00	266.40	2.40	268.43	9.32 - 9.63	2.18	405,210	515,290
EK-270	270.00	276.40	2.40	278.50	9.32 - 9.63	2.18	420,790	535,100
EK-280	280.00	286.66	2.40	288.82	9.32 - 9.63	2.18	454,100	554,920

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

DNK Series-Metric Internal 2-Turn Rings-Heavy Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE			RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH		OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
DNK-13	13.00	13.60		1.10	13.72	1.40	.99	1,901	13,474
DNK-14	14.00	14.60	+0.11/-0.00	1.10	14.75	1.40	.99	2,047	14,510
DNK-15	15.00	15.70		1.10	15.85	1.40	.99	2,559	15,547
DNK-16	16.00	16.80		1.10	16.97	1.65	.99	3,119	16,583
DNK-17	17.00	17.80		1.10	17.98	1.65	.99	3,314	17,620
DNK-18	18.00	19.00		1.10	19.18	1.91	.99	4,386	18,656
DNK-19	19.00	20.00		1.10	20.19	1.91	.99	4,630	19,693
DNK-20	20.00	21.00	+0.13/-0.00	1.10	21.21	1.91	.99	4,874	20,729
DNK-21	21.00	22.00		1.10	22.23	1.91	.99	5,117	21,766
DNK-22	22.00	23.00		1.10	23.23	1.91	.99	5,361	22,802
DNK-23	23.00	24.10		1.30	24.33	2.18	1.14	6,165	23,853
DNK-24	24.00	25.20		1.30	25.45	2.18	1.14	7,018	24,891
DNK-25	25.00	26.20	+0.21/-0.00	1.30	26.45	2.18	1.14	7,310	25,928
DNK-26	26.00	27.20		1.30	27.48	2.18	1.14	7,603	26,965
DNK-27	27.00	28.40		1.30	28.68	2.41	1.14	9,211	28,002
DNK-28	28.00	29.40		1.30	29.69	2.41	1.14	9,552	29,039
DNK-29	29.00	30.40		1.30	30.71	2.41	1.14	9,893	30,076
DNK-30	30.00	31.40		1.30	31.71	2.41	1.14	10,235	31,113
DNK-31	31.00	32.70		1.30	33.02	2.41	1.14	12,842	32,150
DNK-32	32.00	33.70		1.30	34.04	2.41	1.14	13,256	33,187
DNK-33	33.00	34.70		1.30	35.05	2.41	1.14	13,670	34,224
DNK-34	34.00	35.70		1.60	36.07	3.25	1.44	14,085	44,541
DNK-35	35.00	37.00		1.60	37.38	3.25	1.44	17,058	45,851
DNK-36	36.00	38.00	+0.25/-0.00	1.60	38.39	3.25	1.44	17,545	47,161
DNK-37	37.00	39.00		1.60	39.40	3.25	1.44	18,032	48,471
DNK-38	38.00	40.00		1.60	40.41	3.25	1.44	18,520	49,781
DNK-40	40.00	42.50		1.85	42.93	4.01	1.69	24,368	61,498
DNK-41	41.00	43.50		1.85	43.94	4.01	1.69	24,977	63,036
DNK-42	42.00	44.50		1.85	44.96	4.01	1.69	25,586	64,573
DNK-45	45.00	47.50		1.85	47.98	4.01	1.69	27,414	69,186
DNK-47	47.00	49.50		1.85	49.99	4.01	1.69	28,633	72,261
DNK-48	48.00	50.50		1.85	51.00	4.01	1.69	29,242	73,798
DNK-50	50.00	53.00		2.15	53.54	5.08	1.93	36,552	87,790
DNK-51	51.00	54.00		2.15	54.54	5.08	1.93	37,283	89,546
DNK-52	52.00	55.00		2.15	55.55	5.08	1.93	38,014	91,302
DNK-55	55.00	58.00		2.15	58.57	5.08	1.93	40,207	96,569
DNK-56	56.00	59.00		2.15	59.59	5.08	1.93	40,938	98,325
DNK-57	57.00	60.00	+0.30/-0.00	2.15	60.60	5.08	1.93	41,669	100,081
DNK-58	58.00	61.00		2.15	61.62	5.08	1.93	42,400	101,836
DNK-60	60.00	63.00		2.15	63.63	5.08	1.93	43,863	105,348
DNK-62	62.00	65.00		2.15	65.66	5.08	1.93	45,325	108,860
DNK-63	63.00	66.00		2.15	66.67	5.08	1.93	46,056	110,615
DNK-64	64.00	67.00		2.15	67.67	5.08	1.93	46,787	112,371

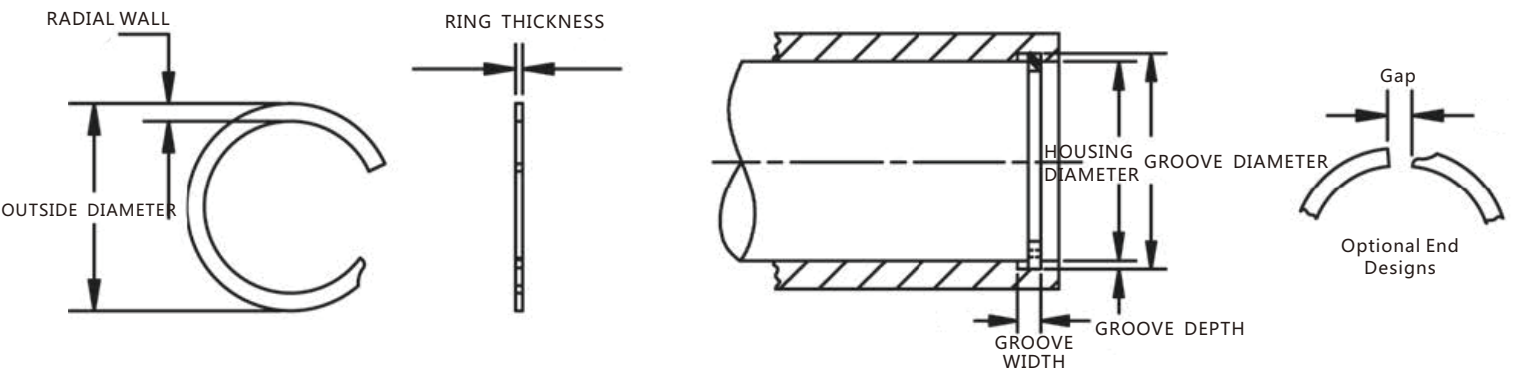
Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

DNK Series

RING NO.	HOUSING DIAMETER	GROOVE SIZE				RING SIZE						THRUST LOAD	
		DIAMETER		WIDTH		OUTSIDE DIAMETER		RADIAL WALL		THICKNESS		GROOVE (N)	RING (N)
DNK-65	65.00	68.00		2.65		68.67		5.08		2.41		47,518	135,725
DNK-67	67.00	70.00		2.65		70.67		5.08		2.41		48,980	139,901
DNK-68	68.00	71.00	+.30 /- .00	2.65		71.67		5.08		2.41		49,711	141,989
DNK-70	70.00	73.00		2.65		73.67		5.08	±.12	2.41		51,173	146,165
DNK-72	72.00	75.00		2.65		75.67		5.08		2.41		52,635	150,341
DNK-75	75.00	78.00		2.65		78.68		5.08		2.41		54,828	156,605
DNK-76	76.00	79.00		2.65		79.68		5.08		2.41		55,559	158,694
DNK-78	78.00	81.00		2.65		81.69		5.08		2.41		57,021	162,870
DNK-80	80.00	83.50		2.65		84.19		6.05		2.41	±.08	68,231	167,046
DNK-82	82.00	85.50		2.65		86.20		6.05		2.41		69,936	171,222
DNK-85	85.00	88.50		3.15		89.20		6.05		2.91		72,495	214,309
DNK-88	88.00	91.50	+.35 /- .00	3.15		92.21		6.05		2.91		75,054	221,873
DNK-90	90.00	93.50		3.15		94.21		6.05		2.91		76,759	226,915
DNK-92	92.00	95.50		3.15		96.22		6.05		2.91		78,465	231,958
DNK-95	95.00	98.50		3.15		99.24		6.05		2.91		81,024	239,522
DNK-98	98.00	101.50		3.15		102.26		6.05		2.91		83,583	247,086
DNK-100	100.00	103.50		3.15		104.29		6.05		2.91		85,288	252,128
DNK-102	102.00	106.00		4.15		106.79		6.73		3.89		99,422	343,778
DNK-105	105.00	109.00		4.15		109.79		6.73		3.89		102,346	353,889
DNK-108	108.00	112.00	+.54 /- .00	4.15		112.80		6.73	±.13	3.89		105,270	364,000
DNK-110	110.00	114.00		4.15		114.83		6.73		3.89		107,220	370,741
DNK-112	112.00	116.00		4.15		116.84		6.73		3.89		109,169	377,482
DNK-115	115.00	119.00		4.15		119.86		6.73		3.89		112,093	387,593
DNK-120	120.00	124.00		4.15		124.92		6.73		3.89		116,967	404,445
DNK-125	125.00	129.00		4.15		129.97		6.73		3.89		121,840	421,297
DNK-127	127.00	131.00		4.15		131.97		6.73		3.89		123,790	428,038
DNK-130	130.00	134.00		4.15		135.00		6.73		3.89		126,714	438,149
DNK-135	135.00	139.00		4.15		140.03		6.73		3.89		131,588	455,001
DNK-140	140.00	144.00		4.15		145.11		6.73		3.89		136,461	471,852
DNK-145	145.00	149.00	+.63 /- .00	4.15		150.11		6.73		3.89	±.10	141,335	488,704
DNK-150	150.00	155.00		4.15		156.13		7.92		3.89		182,761	505,556
DNK-155	155.00	160.00		4.15		161.19		7.92		3.89		188,853	522,408
DNK-160	160.00	165.00		4.15		166.22		7.92		3.89		194,945	539,260
DNK-165	165.00	170.00		4.15		171.27		7.92		3.89		201,037	556,112
DNK-170	170.00	175.00		4.15		176.33		7.92		3.89		207,129	572,964
DNK-175	175.00	180.00		4.15		181.36		7.92		3.89		213,221	589,815
DNK-180	180.00	185.00		4.15		186.39		7.92		3.89		219,313	606,667
DNK-185	185.00	190.00		4.15		191.44		7.92		3.89		225,405	623,519
DNK-190	190.00	195.00		4.15		196.47		7.92	±.15	3.89		231,497	640,371
DNK-195	195.00	200.00		4.15		201.52		7.92		3.89		237,589	657,223
DNK-200	200.00	205.00	+.72 /- .00	4.15		206.58		7.92		3.89		243,681	674,075
DNK-210	210.00	216.00		5.15		217.58		9.53		4.86		307,038	884,268
DNK-220	220.00	226.00		5.15		227.66		9.53	+1.78 /- .00	4.86		321,659	926,376
DNK-230	230.00	236.00		5.15		237.72		9.53		4.86		336,280	968,484
DNK-240	240.00	246.00		5.15		247.80		9.53		4.86		350,900	1,010,592
DNK-250	250.00	256.00		5.15		257.89		9.53		4.86		365,521	1,052,700
DNK-260	260.00	268.00		5.15		269.93		11.18		4.86		506,856	1,094,808
DNK-270	270.00	278.00	+.81 /- .00	5.15		280.01		11.18		4.86		526,351	1,136,916
DNK-280	280.00	288.00		5.15		290.09		11.18		4.86		545,845	1,179,024
DNK-290	290.00	298.00		5.15		300.15		11.18		4.86		565,340	1,221,132
DNK-300	300.00	308.00		5.15		310.24		11.18		4.86		584,834	1,263,241
DNK-310	310.00	320.00		6.20		322.25		12.70		5.87	±.13	755,411	1,576,625
DNK-320	320.00	330.00		6.20		332.33		12.70		5.87		779,779	1,627,484
DNK-330	330.00	340.00		6.20		342.42		12.70		5.87		804,147	1,678,342
DNK-340	340.00	350.00		6.20		352.50		12.70		5.87		828,515	1,729,201
DNK-350	350.00	360.00	+.89 /- .00	6.20		362.56		12.70	±.19	5.87		852,883	1,780,060
DNK-360	360.00	370.00		6.20		372.64		12.70		5.87		877,251	1,830,919
DNK-370	370.00	380.00		6.20		382.73		12.70		5.87		901,619	1,881,778
DNK-380	380.00	390.00		6.20		392.79		12.70		5.87		925,987	1,932,637
DNK-390	390.00	400.00		6.20		402.84		12.70		5.87		950,355	1,983,496
DNK-400	400.00	410.00		6.20		412.93		12.70		5.87		974,723	2,034,354

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

FK Series-Metric Internal Constant Section Rings



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
FK-013	13.00	13.60		13.73	1.40	.94	1,931	10,591
FK-014	14.00	14.60	+0.11	14.74	1.40	.94	2,077	11,396
FK-015	15.00	15.70	-0.00	15.85	1.40	.94	2,602	12,224
FK-016	16.00	16.80		16.90	1.65	.94	3,172	13,029
FK-017	17.00	17.80		17.97	1.65	.94	3,367	13,838
FK-018	18.00	19.00		19.18	1.90	.94	4,457	14,666
FK-019	19.00	20.00		20.25	1.90	.94	4,702	15,471
FK-020	20.00	21.00	+0.13	21.20	1.90	.94	4,951	16,276
FK-021	21.00	22.00	-0.00	22.21	1.90	.94	5,200	17,103
FK-022	22.00	23.00		23.22	1.90	.94	5,445	17,913
FK-023	23.00	24.00		24.23	1.90	.94	5,698	18,736
FK-024	24.00	25.20		25.40	2.15	1.15	6,539	23,927
FK-025	25.00	26.20	+0.21	26.45	2.15	1.15	6,806	24,914
FK-026	26.00	27.20	-0.00	27.46	2.15	1.15	7,082	25,929
FK-027	27.00	28.20		28.47	2.38	1.15	7,353	26,916
FK-028	28.00	29.40		29.68	2.38	1.15	9,702	27,904
FK-029	29.00	30.40		30.69	2.38	1.15	10,053	28,918
FK-030	30.00	31.40		31.79	2.38	1.15	10,395	29,905
FK-031	31.00	32.70		33.01	2.38	1.15	12,660	30,893
FK-032	32.00	33.70		33.93	2.38	1.15	13,073	31,907
FK-033	33.00	34.70		35.03	2.38	1.15	13,478	32,895
FK-034	34.00	35.70	+0.14	36.04	3.25	1.44	13,892	40,319
FK-035	35.00	37.00	-0.00	37.35	3.25	1.44	16,899	41,493
FK-036	36.00	38.00		38.36	3.25	1.44	17,375	42,663
FK-037	37.00	39.00	+0.25	39.37	3.25	1.44	17,869	43,868
FK-038	38.00	40.00	-0.00	40.44	3.25	1.44	18,344	45,043
FK-040	40.00	42.50		42.86	4.01	1.69	24,265	55,621
FK-041	41.00	43.50		43.91	4.01	1.69	24,866	56,995
FK-042	42.00	44.50		44.92	4.01	1.69	25,484	58,410
FK-045	45.00	47.50	+0.51	47.88	4.01	1.69	27,303	62,578
FK-047	47.00	49.50	-0.00	49.97	4.01	1.69	28,504	65,331
FK-048	48.00	50.50		50.98	4.01	1.69	29,118	66,741
FK-050	50.00	53.00		53.50	5.08	1.93	36,529	75,282
FK-051	51.00	54.00		54.43	5.08	1.93	37,249	76,776
FK-052	52.00	55.00		55.52	5.08	1.93	37,974	78,266
FK-055	55.00	58.00		58.55	5.08	1.93	40,163	82,777
FK-056	56.00	59.00	+0.30	59.56	5.08	1.93	40,906	84,307
FK-057	57.00	60.00	-0.00	60.68	5.08	1.93	41,631	85,797
FK-058	58.00	61.00		61.58	5.08	1.93	42,352	87,287
FK-060	60.00	63.00		63.60	5.08	1.93	43,819	90,308
FK-062	62.00	65.00		65.58	5.08	1.93	45,283	93,328
FK-063	63.00	66.00	+0.63	66.63	5.08	1.93	46,008	94,823
FK-064	64.00	67.00	-0.00	67.64	5.08	2.41	46,751	114,742

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

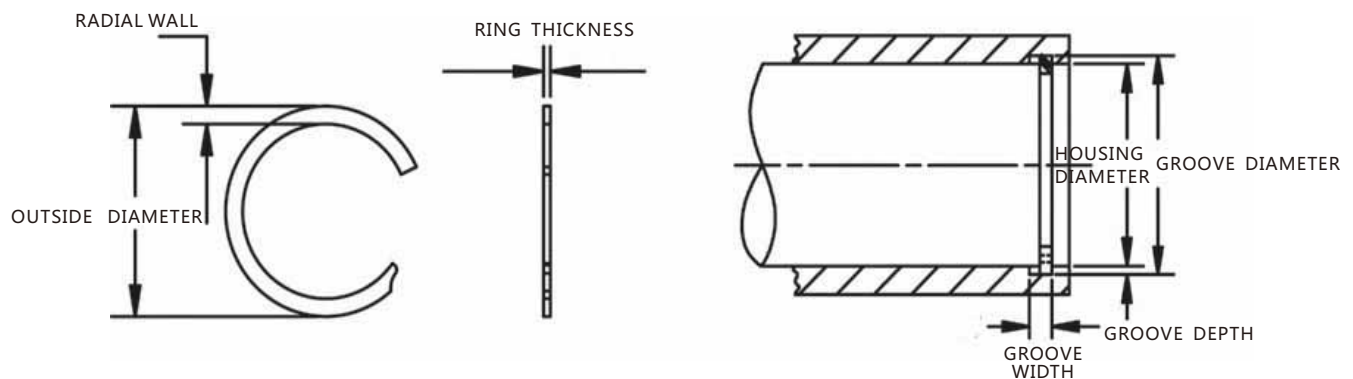
FK Series-Metric Internal Constant Section Rings

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE				RING SIZE					THRUST LOAD		
		DIAMETER		WIDTH		OUTSIDE DIAMETER		RADIAL WALL		THICKNESS	GROOVE (N)	RING (N)	
FK-065	65.00	68.00	+0.30 /-0.00	2.65	+0.14 /-0.00	68.70	+0.76 /-0.00	5.08	±0.08	2.41	47,471	116,517	
FK-067	67.00	70.00		2.65		70.54		5.08		2.41		48,939	120,115
FK-068	68.00	71.00		2.65		71.84		5.08		2.41		49,660	121,890
FK-070	70.00	73.00		2.65		73.64		5.08		2.41		51,128	125,489
FK-072	72.00	75.00		2.65		75.72		5.08		2.41		52,591	129,083
FK-075	75.00	78.00		2.65		78.75		5.08		2.41		54,780	134,456
FK-076	76.00	79.00	+0.35 /-0.00	2.65	+0.89 /-0.00	79.88	±0.13	5.08	±0.10	2.41	55,505	136,231	
FK-078	78.00	81.00		2.65		81.73		5.08		2.41	56,968	139,830	
FK-080	80.00	83.50		2.65		84.30		6.02		2.41	68,342	143,428	
FK-082	82.00	85.50		2.65		86.32		6.02		2.41	70,033	146,978	
FK-085	85.00	88.50		3.15		89.35		6.30		2.91	72,595	175,046	
FK-088	88.00	91.50		3.15		92.38		6.30		2.91	75,175	181,269	
FK-090	90.00	93.50		3.15		94.70		6.30		2.91	76,865	185,353	
FK-092	92.00	95.50		3.15		96.50		6.30		2.91	78,582	189,485	
FK-095	95.00	98.50		3.15		99.62		6.30		2.91	81,140	195,659	
FK-098	98.00	101.50		3.15		102.71		6.30		2.91	83,702	201,829	
FK-100	100.00	103.50	+0.54 /-0.00	3.15	+1.30 /-0.00	104.50	±0.15	6.30	±0.13	2.91	85,415	205,962	
FK-102	102.00	106.00		4.15		107.27		6.73		3.89	87,127	269,224	
FK-105	105.00	109.00		4.15		109.96		6.73		3.89	102,687	277,133	
FK-108	108.00	112.00		4.15		113.09		6.73		3.89	105,619	285,042	
FK-110	110.00	114.00		4.15		115.10		6.73		3.89	107,580	290,340	
FK-112	112.00	116.00		4.15		117.12		6.73		3.89	109,520	295,567	
FK-115	115.00	119.00		4.15		120.15		6.73		3.89	112,473	303,547	
FK-120	120.00	124.00		4.15		125.60		6.73		3.89	117,344	316,687	
FK-125	125.00	129.00		4.15		130.25		6.73		3.89	122,237	329,893	
FK-127	127.00	131.00		4.15		132.27		6.73		3.89	124,199	335,187	
FK-130	130.00	134.00	+0.63 /-0.00	4.15	+1.40 /-0.00	135.30	±0.18	6.73	±0.15	3.89	127,130	343,096	
FK-135	135.00	139.00		4.15		140.35		6.73		3.89	132,023	356,303	
FK-140	140.00	144.00		4.15		145.26		6.73		3.89	136,916	369,509	
FK-145	145.00	149.00		4.15		150.45		6.73		3.89	141,809	382,716	
FK-150	150.00	155.00		4.15		156.50		8.03		3.89	181,986	395,923	
FK-155	155.00	160.00		4.15		161.55		8.03		3.89	188,026	409,063	
FK-160	160.00	165.00		4.15		166.60		8.03		3.89	194,094	422,270	
FK-165	165.00	170.00		4.15		171.70		8.03		3.89	200,166	435,476	
FK-170	170.00	175.00		4.15		176.70		8.03		3.89	206,237	448,683	
FK-175	175.00	180.00		4.15		181.75		8.03		3.89	212,305	461,890	
FK-180	180.00	185.00	+0.72 /-0.00	4.15	+1.78 /-0.00	186.80	±0.18	8.03	±0.13	3.89	218,377	475,097	
FK-185	185.00	190.00		4.15		191.85		8.03		3.89	224,417	488,232	
FK-190	190.00	195.00		4.15		197.15		8.03		3.89	230,489	501,439	
FK-195	195.00	200.00		4.15		201.95		8.03		3.89	236,556	514,646	
FK-200	200.00	205.00		4.15		207.00		8.03		3.89	242,628	527,853	
FK-210	210.00	216.00		5.15		217.93		9.48		4.87	306,763	657,096	
FK-220	220.00	226.00		5.15		228.20		9.48		4.87	321,344	688,327	
FK-230	230.00	236.00		5.15		238.30		9.48		4.87	335,961	719,638	
FK-240	240.00	246.00		5.15		248.40		9.48		4.87	350,578	750,953	
FK-250	250.00	256.00		5.15		258.50		9.48		4.87	365,199	782,264	
FK-260	260.00	268.00	+0.81 /-0.00	5.15	+3.05 /-0.00	270.77	±0.18	11.05	±0.13	4.87	505,300	813,500	
FK-270	270.00	278.00		5.15		280.70		11.05		4.87	524,748	844,811	
FK-280	280.00	288.00		5.15		290.57		11.05		4.87	544,200	876,126	
FK-290	290.00	298.00		5.15		300.90		11.05		4.87	563,599	907,357	
FK-300	300.00	308.00		5.15		311.00		11.05		4.87	583,051	938,673	

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

VK Series-Metric Internal Single Turn Rings-Light Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
VK-25	6.35	6.65	0.38	6.71	0.51	0.30	471	2,138
VK-31	7.92	8.28	0.46	8.36	0.64	0.38	685	3,334
VK-37	9.53	10.03	0.46	10.11	0.76	0.38	1,178	4,005
VK-43	11.10	11.76	0.46	11.84	0.76	0.38	1,787	4,668
VK-50	12.70	13.41	0.56	13.49	1.14	0.46	2,223	5,779
VK-56	14.27	14.99	0.56	15.06	1.14	0.46	2,489	6,490
VK-62	15.88	16.59	0.56	16.66	1.14	0.46	2,756	7,246
VK-68	17.45	18.16	0.56	18.26	1.14	0.46	3,023	7,957
VK-75	19.05	19.79	0.56	19.89	1.14	0.46	3,556	8,668
VK-81	20.62	21.69	0.66	21.89	1.65	0.53	5,379	10,935
VK-87	22.23	23.29	0.66	23.52	1.65	0.53	5,779	11,824
VK-93	23.80	24.87	0.66	25.12	1.65	0.53	6,179	12,625
VK-100	25.40	26.47	0.66	26.72	1.65	0.53	6,579	13,514
VK-106	26.97	28.09	0.79	28.37	2.24	0.64	7,335	15,558
VK-112	28.58	29.69	0.79	29.97	2.24	0.64	7,779	16,492
VK-118	30.15	31.27	0.79	31.55	2.24	0.64	8,224	17,425
VK-125	31.75	32.87	0.79	33.20	2.24	0.64	8,624	18,315
VK-131	33.32	34.44	0.79	34.77	2.24	0.64	9,068	19,248
VK-137	34.93	36.04	0.79	36.40	2.24	0.64	9,513	20,182
VK-143	36.50	37.62	0.79	38.00	2.24	0.64	9,957	21,071
VK-150	38.10	39.22	0.79	39.60	2.24	0.64	10,358	22,004
VK-156	39.67	41.12	0.99	41.58	3.00	0.79	14,225	28,405
VK-162	41.28	42.72	0.99	43.21	3.00	0.79	14,803	29,561
VK-168	42.85	44.3	0.99	44.78	3.00	0.79	15,381	30,672
VK-175	44.45	45.9	0.99	46.41	3.00	0.79	15,959	31,828
VK-181	46.02	47.47	0.99	48.01	3.00	0.79	16,492	32,940
VK-187	47.63	49.07	0.99	49.61	3.00	0.79	17,070	34,095
VK-193	49.20	50.65	0.99	51.21	3.00	0.79	17,648	35,207
VK-200	50.80	52.25	0.99	52.81	3.00	0.79	18,226	36,362
VK-206	52.37	54.31	0.99	54.91	4.01	0.79	24,627	37,474
VK-212	53.98	55.91	0.99	56.54	4.01	0.79	25,383	38,629
VK-218	55.55	57.48	0.99	58.14	4.01	0.79	26,094	39,785
VK-225	57.15	59.08	0.99	59.74	4.01	0.79	26,849	40,897
VK-231	58.72	60.66	0.99	61.34	4.01	0.79	27,605	42,052
VK-237	60.33	62.26	0.99	62.94	4.01	0.79	28,361	43,208
VK-243	61.90	63.83	0.99	64.54	4.01	0.79	29,117	44,319
VK-250	63.50	65.43	0.99	66.17	4.01	0.79	29,872	45,475
VK-256	65.07	67.01	0.99	67.74	4.01	0.79	30,584	46,587
VK-262	66.68	68.61	0.99	69.37	4.01	0.79	31,339	47,742
VK-268	68.25	70.18	0.99	70.97	4.01	0.79	32,095	48,854
VK-275	69.85	71.78	0.99	72.57	4.01	0.79	32,851	50,009
VK-281	71.42	73.36	0.99	74.17	4.01	0.79	33,562	51,121
VK-287	73.03	74.96	0.99	75.77	4.01	0.79	34,318	52,276
VK-293	74.60	76.53	0.99	77.37	4.01	0.79	35,073	53,388
VK-300	76.20	78.13	0.99	78.99	4.01	0.79	35,829	54,544

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

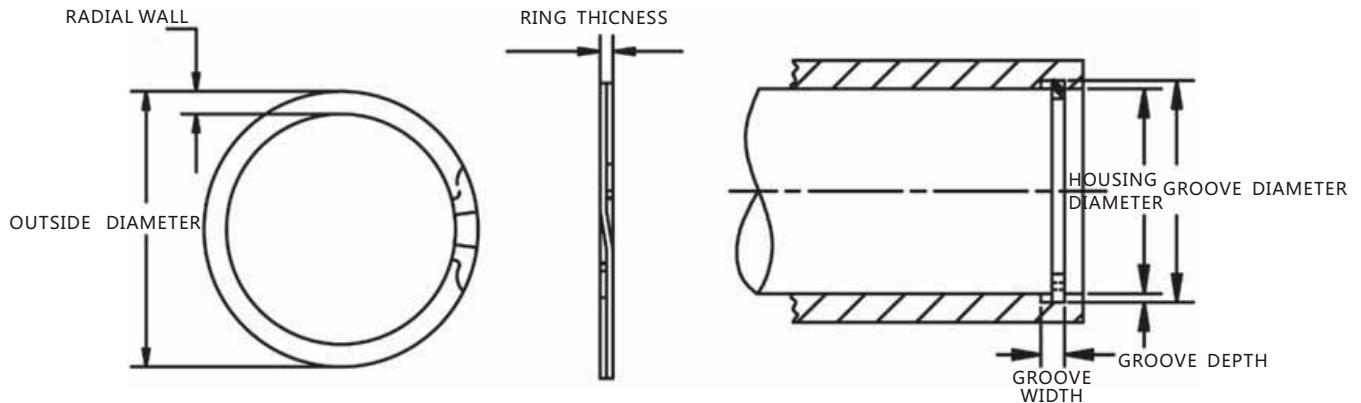
VK Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
VK-306	77.77	80.11	1.12	80.98	4.78	0.99	44,275	70,058
VK-312	79.38	81.71	1.12	82.58	4.78	0.99	45,164	71,480
VK-318	80.95	83.29	1.12	84.18	4.78	0.99	46,053	72,903
VK-325	82.55	84.88	1.12	85.78	4.78	0.99	46,987	74,325
VK-331	84.12	86.46	1.12	87.38	4.78	0.99	47,876	75,748
VK-337	85.73	88.06	1.12	89.00	4.78	0.99	48,765	77,215
VK-343	87.30	89.64	1.12	90.58	4.78	0.99	49,698	78,637
VK-350	88.90	91.24	1.12	92.20	4.78	0.99	50,587	80,059
VK-356	90.47	92.81	1.12	93.78	4.78	0.99	51,476	81,482
VK-362	92.08	94.41	1.12	95.40	4.78	0.99	52,410	82,904
VK-368	93.65	95.99	1.12	97.00	4.78	0.99	53,299	84,327
VK-375	95.25	97.59	1.12	98.60	4.78	0.99	54,188	85,794
VK-381	96.82	99.16	1.12	100.20	4.78	0.99	55,121	87,216
VK-387	98.43	100.76	1.12	101.83	4.78	0.99	56,011	88,639
VK-393	100.00	102.34	1.12	103.40	4.78	0.99	56,900	90,061
VK-400	101.60	103.94	1.12	105.03	4.78	0.99	57,833	91,484
VK-412	104.78	107.57	1.32	108.69	5.72	1.17	71,302	106,020
VK-425	107.95	110.74	1.32	111.89	5.72	1.17	73,436	109,221
VK-437	111.13	113.92	1.32	115.09	5.72	1.17	75,614	112,421
VK-450	114.30	117.09	1.32	118.31	5.72	1.17	77,792	115,622
VK-462	117.48	120.27	1.32	121.51	5.72	1.17	79,926	118,867
VK-475	120.65	123.44	1.32	124.71	5.72	1.17	82,104	122,067
VK-487	123.82	126.62	1.32	127.91	5.72	1.17	84,238	125,268
VK-500	127.00	129.79	1.32	131.14	5.72	1.17	86,416	128,469
VK-525	133.35	136.68	1.70	138.05	5.72	1.55	108,865	178,878
VK-550	139.70	143.21	1.70	144.63	5.72	1.55	119,267	187,413
VK-575	146.05	149.71	1.70	151.21	5.72	1.55	130,069	195,948
VK-600	152.40	156.21	1.70	157.78	6.73	1.55	141,404	204,438
VK-625	158.75	162.71	1.70	164.34	6.73	1.55	153,184	212,973
VK-650	165.10	169.24	1.70	170.94	6.73	1.55	167,498	221,508
VK-675	171.45	175.74	1.70	177.50	6.73	1.55	180,301	229,999
VK-700	177.80	182.25	1.70	184.07	6.73	1.55	193,547	238,534
VK-725	184.15	188.75	1.70	190.63	6.73	1.55	207,328	247,069
VK-750	190.50	195.28	1.70	197.23	6.73	1.55	221,508	255,559
VK-775	196.85	201.78	1.70	203.78	7.62	1.55	236,222	264,094
VK-800	203.20	208.28	1.70	210.36	7.62	1.55	251,381	272,585
VK-825	209.55	214.78	1.70	216.94	7.62	1.55	267,028	281,120
VK-850	215.90	221.31	1.70	223.52	7.62	1.55	285,787	289,654
VK-875	222.25	227.81	2.08	230.10	8.76	1.93	302,457	371,492
VK-900	228.60	234.32	2.08	236.65	8.76	1.93	319,571	382,072
VK-925	234.95	240.82	2.08	243.23	8.76	1.93	337,174	392,696
VK-950	241.30	247.35	2.08	249.81	8.76	1.93	355,222	403,320
VK-975	247.65	253.85	2.08	256.39	8.76	1.93	373,759	413,944
VK-1000	254.00	260.35	2.08	262.97	8.76	1.93	392,785	424,524

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WK Series-Internal 2-Turn Rings-Medium Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WK-50	12.70	13.36	0.76	13.51	1.14	0.64	2,045	8,891
WK-51	13.00	13.67	0.76	13.82	1.14	0.64	2,089	9,113
WK-53	13.49	14.15	0.76	14.33	1.14	0.64	2,178	9,468
WK-56	14.27	14.94	0.76	15.09	1.14	0.64	2,312	10,002
WK-59	15.09	15.72	0.76	15.90	1.14	0.64	2,445	10,580
WK-62	15.88	16.54	0.76	16.71	1.14	0.64	2,534	11,113
WK-65	16.66	17.32	0.76	17.50	1.14	0.64	2,667	11,691
WK-68	17.45	18.11	0.76	18.29	1.14	0.64	2,801	12,225
WK-71	18.24	18.90	0.76	19.08	1.14	0.64	2,934	12,758
WK-75	19.05	19.86	0.91	20.07	1.65	0.79	3,778	14,936
WK-77	19.74	20.52	0.91	20.75	1.65	0.79	3,912	15,470
WK-78	19.84	20.62	0.91	20.85	1.65	0.79	3,912	15,558
WK-81	20.62	21.41	0.91	21.67	1.65	0.79	4,090	16,181
WK-84	21.41	22.35	0.91	22.58	1.65	0.79	5,023	16,803
WK-86	22.00	22.94	0.91	23.19	1.65	0.79	5,157	17,248
WK-87	22.23	23.16	0.91	23.42	1.65	0.79	5,245	17,425
WK-90	23.01	23.85	0.91	24.10	1.65	0.79	5,423	18,048
WK-93	23.83	24.77	0.91	25.04	1.65	0.79	5,601	18,670
WK-96	24.59	25.78	1.07	26.04	1.91	0.94	6,401	23,027
WK-98	25.07	26.16	1.07	26.44	1.91	0.94	6,535	23,471
WK-100	25.40	26.49	1.07	26.77	1.91	0.94	6,579	23,782
WK-102	25.98	27.08	1.07	27.38	1.91	0.94	6,757	24,316
WK-103	26.19	27.28	1.07	27.53	1.91	0.94	6,801	24,493
WK-106	26.97	28.04	1.07	28.37	1.91	0.94	7,024	25,249
WK-109	27.76	28.83	1.07	29.13	1.91	0.94	7,201	25,960
WK-112	28.58	29.64	1.07	29.97	1.91	0.94	7,424	26,761
WK-115	29.36	30.43	1.07	30.73	1.91	0.94	7,646	27,472
WK-118	30.18	31.39	1.22	31.72	2.16	1.09	8,979	32,806
WK-121	30.94	32.16	1.22	32.46	2.16	1.09	9,202	33,651
WK-125	31.75	32.97	1.22	33.32	2.16	1.09	9,424	34,540
WK-128	32.54	33.76	1.22	34.09	2.16	1.09	9,646	35,384
WK-131	33.32	34.54	1.22	34.90	2.16	1.09	9,913	36,229
WK-134	34.11	35.43	1.22	35.76	2.16	1.09	10,980	37,118
WK-137	34.93	36.25	1.22	36.63	2.41	1.09	11,247	37,963
WK-140	35.71	37.03	1.22	37.39	2.41	1.09	11,469	38,852
WK-143	36.50	37.82	1.22	38.20	2.41	1.09	11,736	39,696
WK-145	36.98	38.30	1.22	38.68	2.41	1.09	11,913	40,230
WK-146	37.29	38.61	1.22	38.99	2.41	1.09	12,002	40,541
WK-150	38.10	39.42	1.22	39.80	2.41	1.09	12,269	41,430
WK-156	39.67	41.07	1.42	41.50	2.74	1.24	13,736	44,897
WK-157	39.98	41.48	1.42	41.88	2.74	1.24	14,847	45,253
WK-162	41.28	42.77	1.42	43.21	2.74	1.24	14,892	46,720
WK-165	41.99	43.48	1.42	43.94	2.74	1.24	15,603	47,520
WK-168	42.85	44.45	1.42	44.91	3.00	1.24	16,448	48,498
WK-175	44.45	46.05	1.42	46.58	3.00	1.24	17,070	50,276
WK-181	46.05	47.63	1.42	48.11	3.00	1.24	17,648	52,099
WK-185	46.99	48.69	1.42	49.20	3.00	1.24	19,781	53,166

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WK Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WK-187	47.63	49.33	1.42	49.78	3.00	1.24	20,048	53,877
WK-193	49.23	50.93	1.42	51.44	3.00	1.24	20,715	55,699
WK-200	50.80	52.60	1.42	53.11	3.25	1.24	22,004	57,477
WK-204	51.99	53.80	1.42	54.31	3.25	1.24	22,493	58,856
WK-206	52.37	54.15	1.42	54.71	3.25	1.24	22,671	59,256
WK-212	53.98	55.75	1.42	56.31	3.25	1.24	23,382	61,078
WK-216	54.99	56.87	1.42	57.40	3.51	1.24	25,160	62,234
WK-218	55.58	57.45	1.42	58.01	3.51	1.24	25,427	62,901
WK-225	57.15	59.03	1.42	59.61	3.51	1.24	26,183	64,679
WK-231	58.72	60.71	1.42	61.29	3.51	1.24	28,316	66,457
WK-237	60.33	62.31	1.42	62.89	3.51	1.24	29,117	68,280
WK-243	61.90	63.98	1.42	64.59	3.76	1.24	31,384	70,058
WK-244	61.98	64.06	1.42	64.67	3.76	1.24	31,428	70,147
WK-250	63.50	65.58	1.42	66.19	3.76	1.24	32,228	71,836
WK-253	64.29	66.47	1.42	67.08	3.76	1.24	34,184	72,725
WK-256	65.07	67.26	1.42	67.89	3.76	1.24	34,629	73,614
WK-262	66.68	68.86	1.42	69.49	3.76	1.24	35,473	75,436
WK-267	68.00	70.28	1.42	70.84	4.01	1.24	37,874	76,948
WK-268	68.28	70.56	1.42	71.20	4.01	1.24	38,007	77,259
WK-275	69.85	72.16	1.42	72.77	4.01	1.24	38,896	79,037
WK-281	71.45	73.74	1.42	74.40	4.01	1.24	39,785	80,860
WK-283	71.98	74.37	1.42	75.03	4.27	1.24	42,319	81,438
WK-287	73.03	75.41	1.42	76.07	4.27	1.24	42,452	82,638
WK-293	74.60	76.99	1.42	77.67	4.27	1.24	43,386	84,416
WK-295	74.98	77.37	1.42	78.05	4.27	1.24	43,608	84,860
WK-300	76.20	78.64	1.73	79.30	4.27	1.55	45,253	107,354
WK-306	77.77	80.21	1.73	80.92	4.27	1.55	46,186	109,576
WK-312	79.38	81.86	1.73	82.58	4.52	1.55	47,120	111,799
WK-314	79.98	82.47	1.73	83.21	4.52	1.55	47,476	112,688
WK-318	80.95	83.39	1.73	84.10	4.52	1.55	48,053	114,021
WK-325	82.55	85.09	1.73	85.83	4.52	1.55	51,076	116,289
WK-331	84.12	86.77	1.73	87.53	4.78	1.55	54,099	118,511
WK-334	84.99	87.63	1.73	88.37	4.78	1.55	54,677	119,711
WK-337	85.73	88.37	1.73	89.13	4.78	1.55	55,166	120,778
WK-343	87.30	89.99	1.73	90.78	4.78	1.55	57,255	122,956
WK-350	88.90	91.59	1.73	92.35	4.78	1.55	58,278	125,224
WK-354	89.99	92.79	1.73	93.57	5.03	1.55	61,212	126,779
WK-356	90.47	93.27	1.73	94.06	5.03	1.55	61,567	127,446
WK-362	92.08	94.92	1.73	95.73	5.03	1.55	63,790	129,713
WK-368	93.65	96.49	1.73	97.33	5.03	1.55	64,901	131,936
WK-374	95.00	97.84	1.73	98.68	5.03	1.55	65,790	133,803
WK-375	95.25	98.09	1.73	98.91	5.03	1.55	65,968	134,159
WK-381	96.82	99.82	1.73	100.66	5.28	1.55	70,680	136,381
WK-387	98.43	101.42	1.73	102.24	5.28	1.55	71,836	138,648
WK-393	100.03	103.02	1.73	103.86	5.28	1.55	72,991	140,915
WK-400	101.60	104.75	1.73	105.59	5.54	1.55	77,926	143,138
WK-406	103.20	106.35	1.73	107.24	5.54	1.55	79,170	145,361
WK-412	104.78	107.92	1.73	108.81	5.54	1.55	80,371	147,583
WK-418	106.38	109.50	1.73	110.41	5.54	1.55	81,571	149,850
WK-425	107.95	111.25	1.73	112.17	5.79	1.55	86,816	152,073
WK-431	109.52	112.83	1.73	113.77	5.79	1.55	88,061	154,296
WK-433	109.98	113.28	1.73	114.22	5.79	1.55	88,461	154,918
WK-437	111.13	114.43	1.73	115.39	5.79	1.55	89,350	156,518
WK-443	112.70	116.15	1.73	117.12	6.05	1.55	94,818	158,741
WK-450	114.30	117.75	1.73	118.72	6.05	1.55	96,151	161,008
WK-452	114.99	118.44	1.73	119.41	6.05	1.55	96,729	161,986
WK-456	115.87	119.33	1.73	120.32	6.05	1.55	97,485	163,231
WK-462	117.48	121.03	2.01	122.00	6.35	1.83	101,752	195,326
WK-468	119.05	122.61	2.01	123.62	6.35	1.83	103,086	197,948
WK-472	119.99	123.55	2.01	124.54	6.35	1.83	103,886	199,504
WK-475	120.65	124.21	2.01	125.22	6.35	1.83	104,464	200,615
WK-481	122.22	125.78	2.01	126.82	6.35	1.83	105,842	203,238

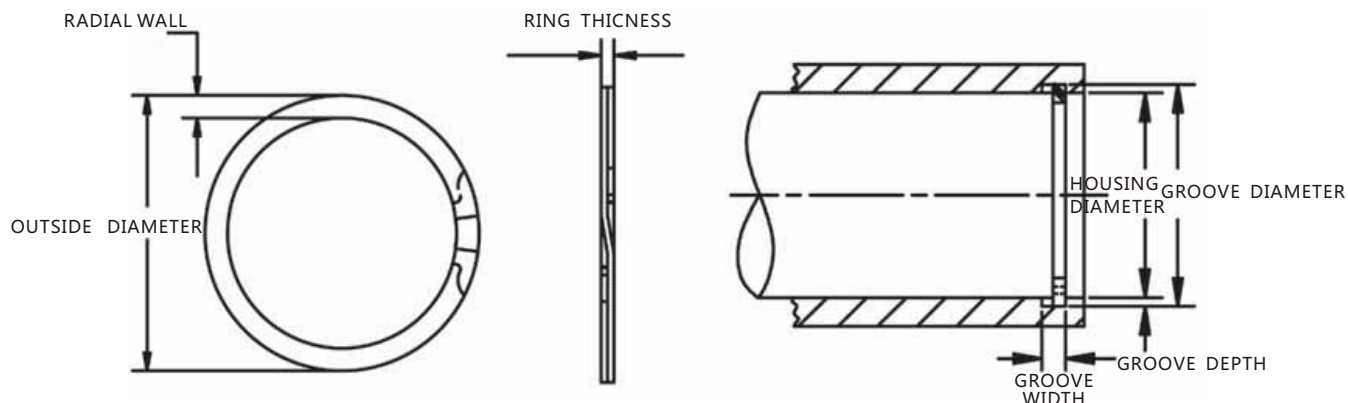
Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WK Series

RING NO.	HOUSING DIAMETER	GROOVE SIZE				RING SIZE					THRUST LOAD	
		DIAMETER		WIDTH		OUTSIDE DIAMETER		RADIAL WALL		THICKNESS	GROOVE (N)	RING (N)
WK-487	123.83	127.38	±1524	2.01	+0.127 /-0.000	128.40	+0.880 /-0.000	6.35	+0.100 /-0.150	1.83	107,220	205,861
WK-492	124.99	128.55		2.01		129.59		6.35		1.83	108,243	207,817
WK-493	125.40	129.06		2.01		130.10		6.35		1.83	111,710	208,484
WK-500	127.00	130.66		2.01		131.70		6.35		1.83	113,132	211,151
WK-511	130.00	133.65		2.01		134.72		6.35		1.83	115,800	216,130
WK-512	130.18	133.83	±1778	2.01	+0.127 /-0.000	134.90	+1.140 /-0.000	6.35	+0.100 /-0.150	1.83	116,022	216,441
WK-525	133.35	136.98		2.01		138.07		6.35		1.83	118,778	221,731
WK-537	136.53	140.26		2.01		141.38		6.35		1.83	125,001	226,976
WK-550	139.70	143.43		2.01		144.60		6.35		1.83	127,891	232,266
WK-551	139.98	143.71		2.01		144.86		6.35		1.83	128,157	232,755
WK-562	142.88	146.61	±2032	2.01	+0.127 /-0.000	147.78	+1.140 /-0.000	6.35	+0.100 /-0.150	1.83	130,691	237,556
WK-570	144.98	148.87		2.01		150.09		6.35		1.83	138,115	241,068
WK-575	146.05	149.94		2.01		151.13		6.35		1.83	139,137	242,846
WK-587	149.23	153.11		2.01		154.36		6.35		1.83	142,160	248,091
WK-590	149.99	153.87		2.01		155.09		6.35		1.83	142,871	249,380
WK-600	152.40	156.29	±2032	2.01	+0.127 /-0.000	157.53	+1.390 /-0.000	6.35	+0.100 /-0.200	1.83	145,183	253,381
WK-612	155.58	159.94		2.39		161.26		7.92		2.18	165,364	308,947
WK-625	158.75	163.12		2.39		164.44		7.92		2.18	168,876	315,259
WK-629	159.99	164.36		2.39		165.71		7.92		2.18	170,210	317,749
WK-637	161.93	166.29		2.39		167.67		7.92		2.18	172,255	321,572
WK-650	165.10	169.47	±2032	2.39	+0.1524 /-0.000	170.84	+1.650 /-0.000	7.92	+0.100 /-0.200	2.18	175,633	327,884
WK-662	168.28	172.90		2.39		174.32		7.92		2.18	189,458	334,196
WK-669	169.98	174.60		2.39		176.05		7.92		2.18	191,369	337,575
WK-675	171.45	176.07		2.39		177.47		7.92		2.18	193,014	340,508
WK-687	174.63	179.25		2.39		180.70		7.92		2.18	196,570	346,776
WK-700	177.80	182.42	±2032	2.39	+0.1524 /-0.000	183.87	+1.650 /-0.000	7.92	+0.100 /-0.200	2.18	200,171	353,089
WK-708	179.98	184.86		2.39		186.36		7.92		2.18	213,729	357,445
WK-712	180.98	185.85		2.39		187.35		7.92		2.18	214,929	359,401
WK-725	184.15	189.03		2.39		190.53		7.92		2.18	218,708	365,713
WK-737	187.33	192.20		2.39		193.75		7.92		2.18	222,486	372,025
WK-748	189.99	194.87	±2032	2.39	+0.1524 /-0.000	196.44	+1.650 /-0.000	7.92	+0.100 /-0.200	2.18	225,642	377,315
WK-750	190.50	195.38		2.39		196.95		7.92		2.18	226,220	378,338
WK-762	193.68	198.81		2.39		200.41		7.92		2.18	242,001	384,606
WK-775	196.85	201.98		2.39		203.56		7.92		2.18	245,957	390,918
WK-787	200.03	205.16		2.39		206.53		7.92		2.18	281,653	397,230
WK-800	203.20	208.33	±2032	2.39	+0.1524 /-0.000	209.96	+1.650 /-0.000	7.92	+0.100 /-0.200	2.18	253,870	403,543
WK-825	209.55	214.93		2.39		216.61		9.53		2.18	274,807	416,167
WK-826	209.98	215.37		2.39		217.07		9.53		2.18	275,341	417,012
WK-846	214.99	220.37		2.39		222.10		9.53		2.18	281,920	426,969
WK-850	215.90	221.28		2.39		223.01		9.53		2.18	283,120	428,747
WK-875	222.25	227.89	±2032	2.39	+0.1524 /-0.000	229.64	+1.650 /-0.000	9.53	+0.100 /-0.200	2.18	305,168	441,372
WK-885	224.99	230.63		2.39		232.44		9.53		2.18	308,947	446,840
WK-900	228.60	234.24		2.39		236.04		9.53		2.18	313,926	453,996
WK-905	230.00	235.89		2.39		237.72		9.53		2.18	330,062	456,753
WK-925	234.95	240.84		2.39		242.70		9.53		2.18	337,174	466,577
WK-944	239.98	245.87	±2032	2.39	+0.1524 /-0.000	247.78	+1.650 /-0.000	9.53	+0.100 /-0.200	2.18	344,376	476,578
WK-950	241.30	247.19		2.39		249.07		9.53		2.18	346,287	479,201
WK-975	247.65	253.80		2.39		255.73		9.53		2.18	370,692	491,826
WK-1000	254.00	260.15		2.39		262.13		9.53		2.18	380,205	504,406
WK-1025	260.35	266.75		2.39		268.78		9.53		2.18	405,810	517,031
WK-1050	266.70	273.10	±2032	2.39	+0.1524 /-0.000	275.18	+1.650 /-0.000	9.53	+0.100 /-0.200	2.18	415,723	529,655
WK-1075	273.05	279.70		2.39		281.81		9.53		2.18	442,483	542,280
WK-1100	279.40	286.05		2.39		288.21		9.53		2.18	452,796	554,860

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WKT Series-Internal spiral retaining rings Medium-Heavy Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE			RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH		OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WKT-50	12.70	13.31	±.0508		13.44	1.14	0.89	1,867	11,247
WKT-51	13.00	13.61			13.74	1.14	0.89	1,911	11,513
WKT-56	14.27	15.04			15.16	1.14	0.89	2,667	12,625
WKT-62	15.88	16.74			16.89	1.14	0.89	3,334	14,047
WKT-68	17.48	18.39			18.54	1.40	0.89	3,912	15,470
WKT-75	19.05	20.07			20.22	1.40	0.89	4,712	16,848
WKT-77	19.74	20.80			20.96	1.65	1.07	5,112	20,982
WKT-81	20.62	21.77	±.0762		21.95	1.65	1.07	5,868	21,915
WKT-86	22.00	23.16			23.34	1.65	1.07	6,268	23,382
WKT-87	22.23	23.42			23.60	1.65	1.07	6,579	23,604
WKT-90	22.89	24.13			24.31	1.65	1.07	7,068	24,316
WKT-93	23.83	25.12			25.32	1.91	1.07	7,646	25,294
WKT-100	25.40	26.80			27.00	1.91	1.07	8,802	26,983
WKT-102	25.98	27.41			27.61	1.91	1.07	9,024	27,605
WKT-106	26.97	28.45			28.68	1.98	1.27	9,691	31,161
WKT-112	28.58	30.10			30.35	1.98	1.27	10,624	32,984
WKT-118	30.18	31.75			32.00	2.24	1.27	11,558	34,851
WKT-125	31.75	33.53			33.78	2.36	1.27	13,736	36,674
WKT-131	33.32	35.18	±.1016		35.43	2.36	1.27	15,247	38,496
WKT-137	34.92	36.83			37.11	2.49	1.27	16,403	40,319
WKT-143	36.53	38.48			38.76	2.62	1.27	17,603	42,186
WKT-145	36.98	38.99			39.27	2.74	1.27	18,315	42,719
WKT-150	38.10	40.13			40.41	2.74	1.27	18,848	44,008
WKT-156	39.67	41.83			42.14	2.87	1.57	21,115	56,811
WKT-162	41.28	43.56			43.87	2.87	1.57	22,982	59,078
WKT-165	41.99	44.32			44.63	3.00	1.57	23,916	60,100
WKT-168	42.88	45.21			45.54	3.00	1.57	24,405	61,389
WKT-175	44.45	46.86			47.19	3.00	1.57	26,405	63,656
WKT-181	46.02	48.51	±.127		48.84	3.12	1.57	27,916	65,879
WKT-185	46.99	49.50			49.86	3.12	1.57	29,072	67,257
WKT-187	47.63	50.17			50.52	3.25	1.57	29,472	68,191
WKT-193	49.23	51.82			52.17	3.25	1.57	31,073	70,458
WKT-200	50.80	53.59			53.98	3.51	1.57	34,584	72,725
WKT-206	52.37	55.25			55.63	3.58	1.98	36,940	94,329
WKT-212	53.98	56.90			57.28	3.58	1.98	38,718	97,218
WKT-218	55.58	58.55			58.95	3.58	1.98	40,585	100,108
WKT-225	57.15	60.20			60.60	3.58	1.98	42,408	102,953
WKT-231	58.72	61.98			62.41	4.78	1.98	46,498	105,798
WKT-237	60.33	63.63			64.06	4.78	1.98	48,498	108,643
WKT-244	61.98	65.28	±.1524		65.74	4.78	1.98	49,832	111,621
WKT-250	63.50	66.93			67.39	4.78	1.98	53,432	114,377
WKT-253	64.29	67.77			68.25	4.78	1.98	54,899	115,800
WKT-256	65.07	68.58			69.09	4.78	2.36	55,566	133,092
WKT-262	66.68	70.23			70.74	4.78	2.36	57,744	136,381

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WKT Series

Product Dimensions All dimensions in millimeters unless otherwise specified

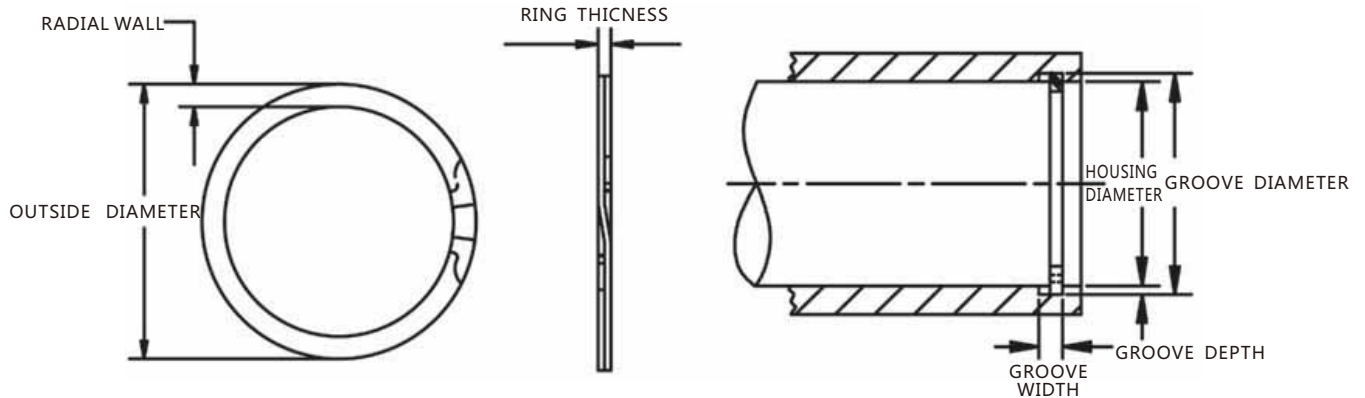
RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WKT-268	68.28	71.98	2.62	72.52	4.78	2.36	61,656	139,626
WKT-275	69.85	73.66	2.62	74.19	+0.630 /-0.000	2.36	64,812	142,871
WKT-281	71.45	75.31	2.62	75.87	4.78	2.36	67,168	146,161
WKT-283	71.98	75.87	2.62	76.43	4.78	2.36	68,591	147,228
WKT-287	73.03	76.96	2.62	77.55	4.78	2.36	70,458	149,361
WKT-300	76.20	80.39	2.62	80.98	4.78	2.36	78,237	155,852
WKT-306	77.77	82.04	3.05	82.63	6.35	2.82	80,815	189,858
WKT-312	79.38	83.69	3.05	84.28	6.35	2.82	83,482	193,770
WKT-315	80.16	84.53	3.05	85.19	6.35	2.82	85,305	195,770
WKT-325	82.55	87.02	3.05	87.63	6.35	±130	89,884	201,505
WKT-334	84.99	89.54	3.05	90.17	6.35	2.82	94,640	207,461
WKT-346	87.99	92.71	3.05	93.35	+0.760 /-0.000	2.82	101,219	214,796
WKT-350	88.90	93.73	3.05	94.39	6.35	2.82	104,464	217,019
WKT-354	89.99	94.87	±1524	95.53	6.35	±076	106,865	219,686
WKT-356	90.47	95.40	3.05	96.09	6.35	2.82	108,554	220,886
WKT-362	92.08	97.08	3.05	97.76	6.35	2.82	112,777	224,753
WKT-375	95.25	100.46	3.05	101.14	6.35	2.82	121,356	232,533
WKT-387	98.43	103.81	3.05	104.52	6.35	2.82	129,046	240,267
WKT-393	100.03	105.41	3.05	106.12	6.35	2.82	131,180	244,179
WKT-400	101.60	107.19	3.05	107.90	6.35	2.82	138,248	248,047
WKT-412	104.78	110.36	3.05	111.07	7.92	2.82	142,560	255,781
WKT-425	107.95	113.54	3.05	114.30	7.92	2.82	146,917	263,516
WKT-433	109.98	115.72	3.05	116.48	+0.880 /-0.000	2.82	153,762	268,495
WKT-450	114.30	120.27	3.05	121.11	7.92	2.82	166,831	279,030
WKT-462	117.48	123.57	3.05	124.38	7.92	2.82	174,388	286,765
WKT-475	120.65	126.87	3.05	127.71	7.92	±150	183,590	294,544
WKT-500	127.00	133.60	3.05	134.49	7.92	2.82	204,261	310,014
WKT-525	133.35	140.21	3.53	141.20	9.53	3.23	222,709	372,470
WKT-537	136.53	143.38	3.53	144.40	9.53	3.23	227,998	381,316
WKT-550	139.70	146.56	±1778	147.57	+1.140 /-0.000	3.23	233,288	390,207
WKT-575	146.05	152.91	3.53	153.97	9.53	3.23	243,913	407,943
WKT-600	152.40	159.26	3.53	160.38	9.53	3.23	254,537	425,680

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

Rings listed below are three-turn construction

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	FREE DIAMETER	RING RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WKT-625	158.75	165.86	4.42	167.03	7.92	4.19	274,941	576,064
WKT-650	165.10	172.47	4.42	173.66	+1.140 /-0.000	4.19	296,145	599,135
WKT-662	168.28	175.90	4.42	177.11	7.92	4.19	312,236	610,648
WKT-675	171.45	179.20	4.42	180.44	7.92	4.19	324,505	622,161
WKT-700	177.80	185.80	4.42	187.10	7.92	4.19	347,532	645,188
WKT-725	184.15	192.41	5.31	193.75	9.53	4.80	371,314	765,433
WKT-750	190.50	199.14	5.31	200.53	9.53	4.80	400,609	791,838
WKT-775	196.85	205.74	±2032	207.16	9.53	±150	426,169	818,243
WKT-800	203.20	212.34	5.31	213.82	9.53	4.80	452,485	844,603
WKT-825	209.55	218.95	5.31	220.47	9.53	4.80	479,557	871,008
WKT-850	215.90	225.55	5.31	227.13	9.53	4.80	507,473	897,413
WKT-875	222.25	232.28	5.31	233.91	+1.178 /-0.000	4.80	544,369	923,818
WKT-900	228.60	238.89	5.31	240.56	9.53	4.80	574,063	950,179
WKT-925	234.95	245.59	5.31	247.29	9.53	4.80	610,381	976,584
WKT-950	241.30	252.22	5.31	253.97	9.53	4.80	641,810	1,002,989
WKT-975	247.65	258.80	5.31	260.60	9.53	4.80	673,993	1,029,393
WKT-1000	254.00	265.43	5.31	268.02	9.53	4.80	706,977	1,055,754
WKT-1050	266.70	278.64	5.31	281.23	9.53	4.80	775,346	1,108,564

WKM Series



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WKM-25	6.35	6.81	0.51	6.86	+0.250 /-0.000	0.38	707	2,494
WKM-31	7.92	8.38	0.51	8.46	0.64	0.38	880	3,112
WKM-37	9.53	10.08	0.74	10.16	0.76	0.64	1,298	6,410
WKM-43	11.10	11.71	0.74	11.79	+0.300 /-0.000	0.89	1,649	7,468
WKM-50	12.70	13.46	0.99	13.67	1.14	0.89	2,356	11,247
WKM-51	13.00	13.77	0.99	13.97	1.14	0.89	2,400	11,513
WKM-56	14.27	15.14	0.99	15.37	1.40	0.89	3,023	12,625
WKM-62	15.88	16.89	0.99	17.15	1.40	0.89	3,912	14,047
WKM-68	17.48	18.59	0.99	18.87	1.65	0.89	4,756	15,470
WKM-75	19.05	20.22	0.99	20.50	1.65	0.89	5,423	16,848
WKM-77	19.74	20.96	1.17	21.23	1.91	1.07	5,868	20,982
WKM-81	20.62	21.89	1.17	22.17	1.91	1.07	6,401	21,915
WKM-86	22.00	23.37	1.17	23.65	1.91	1.07	7,335	23,382
WKM-87	22.23	23.65	1.17	23.95	2.16	1.07	7,690	23,604
WKM-90	22.89	24.36	1.17	24.69	2.16	1.07	8,224	24,316
WKM-93	23.83	25.40	1.17	25.73	2.16	1.07	9,157	25,294
WKM-100	25.40	27.08	1.17	27.43	2.16	1.07	10,358	26,983
WKM-102	25.98	27.71	1.17	28.07	2.16	1.07	10,935	27,605
WKM-106	26.97	28.70	1.42	28.91	2.62	1.27	11,335	31,161
WKM-112	28.58	30.40	1.42	30.61	2.62	1.27	12,714	32,984
WKM-118	30.18	32.05	1.42	32.28	2.62	1.27	13,825	34,851
WKM-125	31.75	33.78	1.42	34.01	2.62	1.27	15,692	36,674
WKM-131	33.32	35.46	1.42	35.71	3.00	1.27	17,337	38,496
WKM-137	34.93	37.11	1.42	37.36	3.00	1.27	18,581	40,319
WKM-143	36.55	38.81	1.42	39.09	3.00	1.27	20,359	42,186
WKM-145	36.98	39.32	1.42	39.60	3.00	1.27	21,026	42,719
WKM-150	38.10	40.49	1.42	40.77	3.00	1.27	22,137	44,008
WKM-156	39.67	42.11	1.73	42.55	3.25	1.57	23,560	56,811
WKM-162	41.28	43.82	1.73	44.25	3.25	1.57	25,516	59,078
WKM-165	41.99	44.58	1.73	45.01	3.25	1.57	26,494	60,100
WKM-168	42.88	45.52	1.73	45.97	3.25	1.57	27,605	61,389
WKM-175	44.45	47.19	1.73	47.65	3.25	1.57	29,694	63,656
WKM-181	46.02	48.82	1.73	49.28	3.25	1.57	31,339	65,879
WKM-185	46.99	49.83	1.73	50.32	4.01	1.57	32,539	67,257
WKM-187	47.63	50.52	1.73	51.00	4.01	1.57	33,606	68,191
WKM-193	49.23	52.22	1.73	52.71	4.01	1.57	35,918	70,458
WKM-200	50.80	53.90	1.73	54.41	4.01	1.57	38,318	72,725
WKM-206	52.37	55.52	2.18	55.91	4.27	1.98	40,185	94,329
WKM-212	53.98	57.18	2.18	57.58	4.27	1.98	42,052	97,218
WKM-218	55.58	58.88	2.18	59.28	4.27	1.98	44,675	100,108
WKM-225	57.15	60.50	2.18	60.93	4.27	1.98	46,675	102,953
WKM-231	58.72	62.23	2.18	62.66	5.08	1.98	50,143	105,798
WKM-237	60.33	63.93	2.18	64.39	5.08	1.98	52,988	108,643
WKM-244	61.98	65.63	2.18	66.09	5.08	1.98	55,210	111,621
WKM-250	63.50	67.26	2.18	67.74	5.08	1.98	58,144	114,377
WKM-253	64.29	68.10	2.18	68.58	5.08	1.98	59,656	115,800
WKM-256	65.07	68.94	2.62	69.42	5.72	2.36	61,167	133,092
WKM-262	66.68	70.64	2.62	71.15	5.72	2.36	64,323	136,381
WKM-268	68.28	72.34	2.62	72.85	5.72	2.36	67,568	139,626
WKM-275	69.85	74.02	2.62	74.52	5.72	2.36	70,858	142,871
WKM-281	71.45	75.69	2.62	76.23	5.72	2.36	74,236	146,161

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

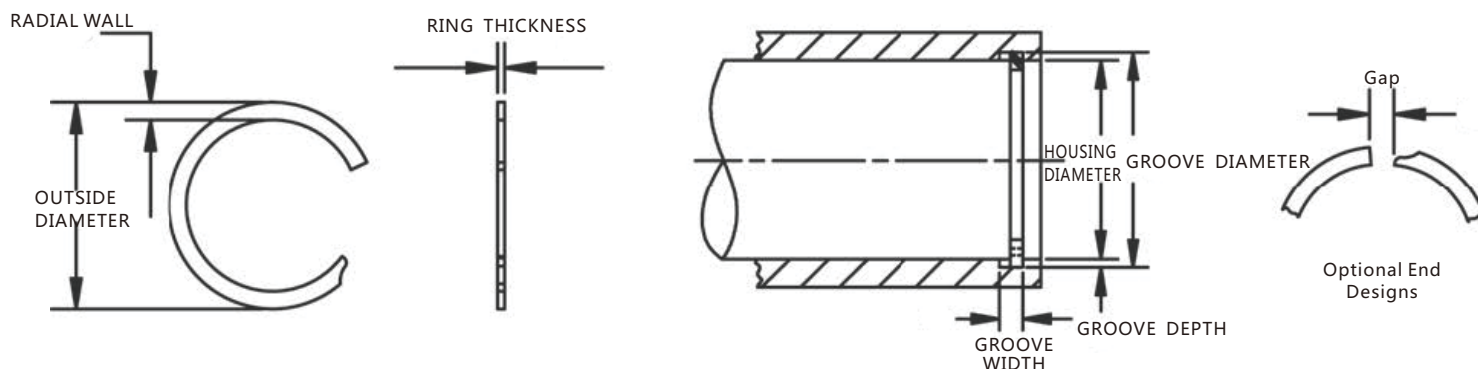
DNK Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE				RING SIZE						THRUST LOAD	
		DIAMETER		WIDTH		OUTSIDE DIAMETER		RADIAL WALL		THICKNESS		GROOVE (N)	RING (N)
WKM-283	71.98	76.35		2.62		76.89		5.72		2.36		76,592	147,228
WKM-287	73.03	77.50		2.62		78.03	+0.760 /-0.000	5.72		2.36		79,482	149,361
WKM-300	76.20	80.82		2.62		81.38		5.72		2.36		81,349	155,852
WKM-306	77.77	82.50		3.05		83.08		7.14		2.82		89,483	189,858
WKM-312	79.38	84.20		3.05		84.79		7.14		2.82		93,306	193,770
WKM-315	80.19	85.04		3.05		85.62		7.14	+0.100 /-0.150	2.82		95,218	195,770
WKM-325	82.55	87.53		3.05		88.14		7.14		2.82		100,063	201,505
WKM-334	84.99	90.07		3.05		90.70		7.14		2.82		105,131	207,461
WKM-347	87.99	93.35		3.05		94.01		7.14		2.82		114,288	214,796
WKM-350	88.90	94.23		3.05		94.89		7.14		2.82		115,488	217,019
WKM-354	89.99	95.38		3.05	+0.127 /-0.000	96.04		7.14		2.82		118,022	219,686
WKM-356	90.47	95.91	±0.1524	3.05		96.57		7.14		2.82	±0.0760	119,756	220,886
WKM-362	92.08	97.56		3.05		98.25		7.14		2.82		123,001	224,753
WKM-375	95.25	100.94		3.05		101.65	+0.880 /-0.000	7.92		2.82		131,980	232,533
WKM-387	98.43	104.32		3.05		105.05		7.92		2.82		141,227	240,267
WKM-393	100.03	106.02		3.05		106.76		7.92		2.82		146,027	244,179
WKM-400	101.60	107.70		3.05		108.46		7.92		2.82		150,828	248,047
WKM-412	104.78	110.21		3.05		110.97		7.92		2.82		155,540	255,781
WKM-425	107.95	113.54		3.05		114.33		7.92		2.82		160,252	263,516
WKM-433	109.98	115.72		3.05		116.84		7.92		2.82		163,275	268,495
WKM-450	114.30	120.27		3.05		121.11		7.92		2.82		169,676	279,030
WKM-462	117.48	123.57		3.05		124.43		7.92		2.82		174,388	286,765
WKM-475	120.65	126.87		3.05		127.76		7.92		2.82		183,590	294,544
WKM-500	127.00	133.60		3.05		134.54		7.92		2.82		204,261	310,014
WKM-525	133.35	140.21		3.53		141.20		8.89		3.23		222,709	372,470
WKM-537	136.53	143.51		3.53	+0.1524 /-0.000	144.53	+0.1270 /-0.000	8.89		3.23		227,998	381,316
WKM-550	139.70	146.56	±0.1778	3.53		147.57		8.89	+0.100 /-0.200	3.23	±0.100	233,288	390,207
WKM-575	146.05	152.91		3.53		153.97		8.89		3.23		243,913	407,943
WKM-600	152.40	159.26		3.53		160.38		8.89		3.23		254,537	425,680
WKM-625	158.75	165.86		4.42		167.03		9.65		3.96		274,941	544,636
WKM-650	165.10	172.47		4.42		173.69	+0.1400 /-0.000	9.65		3.96		296,145	566,418
WKM-662	168.28	175.90		4.42		177.14		9.65		3.96		312,236	577,309
WKM-675	171.45	179.20		4.42		180.47		9.65		3.96		324,505	588,199
WKM-700	177.80	185.80		4.42		187.10		9.65		3.96		347,532	610,026
WKM-725	184.15	192.41		5.31		193.75		10.62		4.75		371,314	757,342
WKM-750	190.50	199.14		5.31		200.53		10.62		4.75		400,609	783,436
WKM-775	196.85	205.74		5.31		207.19		10.62		4.75		426,169	809,574
WKM-800	203.20	212.34		5.31		213.84		10.62		4.75		452,485	835,668
WKM-825	209.55	218.95	±0.2032	5.31		220.47		11.14		4.75		479,557	861,806
WKM-850	215.90	225.55		5.31		227.13		11.14		4.75		507,473	887,900
WKM-875	222.25	232.28		5.31		233.91		11.14		4.75		544,369	914,038
WKM-900	228.60	238.89		5.31		240.56	+0.1780 /-0.000	11.14		4.75		574,063	940,132
WKM-925	234.95	245.59		5.31		247.32		11.14		4.75		610,381	966,271
WKM-950	241.30	252.22		5.31		254.00		12.70		4.75		641,810	992,364
WKM-975	247.65	258.80		5.31		260.60		12.70		4.75		669,548	1,018,503
WKM-1000	254.00	265.43		5.31	+0.2032 /-0.000	267.28		12.70		4.75		706,977	1,044,596
WKM-1025	260.35	272.06		5.31		273.96		12.70		4.75		744,007	1,070,735
WKM-1050	266.70	278.64		5.31		280.59		12.70		4.75	±0.130	775,346	1,096,828
WKM-1075	273.05	285.34		5.31		287.35		12.70		4.75		817,443	1,122,967
WKM-1100	279.40	291.97		5.31		294.01		12.70		4.75		857,183	1,149,060
WKM-1125	285.75	298.60		5.31		300.69		12.70		4.75		894,346	1,175,199
WKM-1150	292.10	305.26	±0.254	5.31		307.39		14.27		4.75		935,909	1,201,292
WKM-1175	298.45	311.89		5.31		314.07	+0.3050 /-0.000	14.27		4.75		978,406	1,227,431
WKM-1200	304.80	318.52		5.31		320.75		14.27	+0.120 /-0.250	4.75		1,018,058	1,253,525
WKM-1225	311.15	325.15		5.31		327.43		14.27		4.75		1,062,377	1,279,618
WKM-1250	317.50	331.80		5.31		334.11		14.27		4.75		1,107,630	1,305,757
WKM-1275	323.85	338.43		5.31		340.79		14.27		4.75		1,149,816	1,331,850
WKM-1300	330.20	345.06		5.31		347.47		16.81		4.75		1,196,847	1,357,989
WKM-1325	336.55	351.69		5.31		354.15		16.81		4.75		1,240,678	1,384,082
WKM-1350	342.90	358.34		5.31		360.86		16.81		4.75		1,289,576	1,410,221
WKM-1375	349.25	364.97		5.31		367.54		16.81		4.75		1,339,363	1,436,314
WKM-1400	355.60	371.60	±0.3048	5.31		374.19	+0.3560 /-0.000	16.81		4.75		1,385,727	1,462,453
WKM-1425	361.95	378.23		5.31		380.87		16.81		4.75		1,437,337	1,488,546
WKM-1450	368.30	384.89		5.31		387.58		19.05		4.75		1,489,880	1,514,685
WKM-1475	374.65	391.52		5.31		394.26		19.05		4.75		1,538,734	1,540,779
WKM-1500	381.00	398.15		5.31		400.94		19.05		4.75		1,593,099	1,566,917

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

FKE Series-Internal Constant Section Rings



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
FKE-0050	12.70	13.31	1.09	13.44	1.40	0.94	1,925	10,556
FKE-0056	14.27	14.88	+1016 /-000	15.01	1.40	0.94	2,166	11,863
FKE-0062	15.88	16.69	1.09	16.89	1.65	0.94	3,210	13,193
FKE-0068	17.45	18.26	1.09	18.44	1.65	0.94	3,528	14,501
FKE-0075	19.05	20.07	1.09	20.24	1.90	0.94	4,812	15,831
FKE-0081	20.62	21.64	+127 /-000	21.84	1.90	0.94	5,212	17,139
FKE-0087	22.23	23.24	1.09	23.47	1.90	0.94	5,616	18,469
FKE-0093	23.80	25.02	1.30	25.40	2.15	1.15	7,219	24,216
FKE-0100	25.40	26.62	+2032 /-000	26.87	2.15	1.15	7,700	25,846
FKE-0106	26.97	28.19	1.30	28.47	2.38	1.15	8,181	27,444
FKE-0112	28.58	30.00	1.30	30.28	2.38	1.15	10,111	29,074
FKE-0118	30.15	31.57	1.30	31.80	2.38	1.15	10,664	30,677
FKE-0125	31.75	33.43	1.30	33.93	2.38	1.15	13,239	32,307
FKE-0131	33.32	35.00	1.30	35.33	2.38	1.15	13,892	33,909
FKE-0137	34.93	36.91	1.60	37.34	3.25	1.45	17,211	42,254
FKE-0143	36.50	38.48	1.60	38.84	3.25	1.45	17,983	44,161
FKE-0150	38.10	40.08	+254 /-000	40.44	3.25	1.45	18,773	46,095
FKE-0156	39.67	42.32	1.85	42.85	4.01	1.70	26,064	56,296
FKE-0162	41.28	43.92	1.85	44.35	4.01	1.70	27,117	58,571
FKE-0168	42.85	45.49	1.85	45.92	4.01	1.70	28,153	60,804
FKE-0175	44.45	47.29	1.85	47.88	4.01	1.70	31,449	63,074
FKE-0181	46.02	48.87	1.85	49.33	4.01	1.70	32,565	65,308
FKE-0187	47.63	50.47	1.85	50.98	4.01	1.70	33,696	67,578
FKE-0193	49.20	52.20	2.16	52.68	5.08	1.93	36,674	75,586
FKE-0200	50.80	53.80	2.16	54.43	5.08	1.93	37,868	78,047
FKE-0206	52.37	55.37	2.16	55.88	5.08	1.93	39,039	80,467
FKE-0212	53.98	56.97	2.16	57.51	5.08	1.93	40,233	82,923
FKE-0218	55.55	58.55	2.16	59.11	5.08	1.93	41,409	85,343
FKE-0225	57.15	60.15	2.16	60.68	5.08	1.93	42,603	87,804
FKE-0231	58.72	61.72	2.16	62.31	5.08	1.93	43,775	90,223
FKE-0237	60.33	63.32	2.16	63.93	5.08	1.93	44,969	92,680
FKE-0243	61.90	64.90	+3048 /-000	65.58	5.08	1.93	46,140	95,099
FKE-0250	63.50	66.50	2.16	67.13	5.08	1.93	47,334	97,556
FKE-0256	65.07	68.07	2.64	68.71	5.08	2.41	48,510	119,062
FKE-0262	66.68	69.67	2.64	70.54	5.08	2.41	49,699	121,990
FKE-0268	68.25	71.25	2.64	71.83	5.08	2.41	50,875	124,868
FKE-0275	69.85	72.85	2.64	73.63	5.08	2.41	52,069	127,796
FKE-0281	71.42	74.42	2.64	75.13	5.08	2.41	53,241	130,679
FKE-0287	73.03	76.02	2.64	76.76	5.08	2.41	54,435	133,608
FKE-0293	74.60	77.60	2.64	78.33	5.08	2.41	55,610	136,486
FKE-0300	76.20	79.20	2.64	79.88	5.08	2.41	56,800	139,414
FKE-0306	77.77	80.87	2.64	81.74	5.08	2.41	59,942	142,297
FKE-0312	79.38	82.88	+3302 /-000	83.67	6.02	2.41	69,199	145,226
FKE-0318	80.95	84.46	2.64	85.27	6.02	2.41	70,570	148,104
FKE-0325	82.55	86.06	2.64	86.87	6.02	2.41	71,964	151,032

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

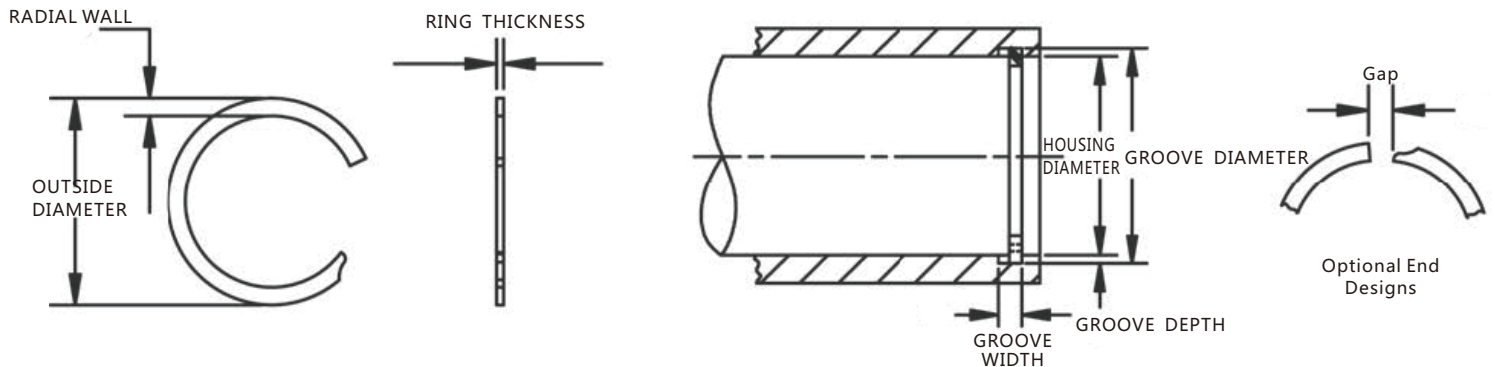
FKE Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE			RING SIZE					THRUST LOAD						
		DIAMETER	WIDTH		OUTSIDE DIAMETER		RADIAL WALL		THICKNESS		GROOVE (N)	RING (N)				
FKE-0331	84.12	87.63	+3302 /-000	3.15	+890 /-000	88.47	+760 /-000	6.30	±.080	2.92	±.130	73,339	176,842			
FKE-0337	85.73	89.23		3.15		90.09		6.30		2.92		74,733	180,206			
FKE-0343	87.30	90.81		3.15		91.67		6.30		2.92		76,104	183,516			
FKE-0350	88.90	92.41		3.15		93.29		6.30		2.92		77,502	186,880			
FKE-0356	90.47	93.98		3.15		94.69		6.30		2.92		78,873	190,190			
FKE-0362	92.08	95.58		3.15		96.49		6.30		2.92		80,267	193,554			
FKE-0368	93.65	97.16		3.15		98.09		6.30		2.92		81,643	196,863			
FKE-0375	95.25	98.76		3.15		99.62		6.30		2.92		83,037	200,228			
FKE-0381	96.82	100.33		3.15		101.30		6.30		2.92		84,408	203,537			
FKE-0387	98.43	101.93		3.15		102.72		6.30		2.92		85,806	206,901			
FKE-0393	100.00	103.51	3.15	104.50		6.30	2.92	87,177	210,211							
FKE-0400	101.60	105.61	+5334 /-000	4.14	+1300 /-000	107.26		6.73	±.100	3.89	±.150	101,410	273,685			
FKE-0412	104.78	108.79		4.14		109.96		6.73		3.89		104,579	282,234			
FKE-0425	107.95	111.96		4.14		113.08		6.73		3.89		107,748	290,787			
FKE-0437	111.13	115.14		4.14		116.23		6.73		3.89		110,917	299,340			
FKE-0450	114.30	118.31	4.14	119.46			6.73	3.89		114,086		307,894				
FKE-0462	117.48	121.49	4.14	122.66			6.73	3.89		117,255		316,447				
FKE-0475	120.65	124.66	4.14	125.60			6.73	3.89		120,424		324,996				
FKE-0487	123.83	127.84	4.14	129.08			6.73	3.89		123,592		333,549				
FKE-0500	127.00	131.01	4.14	132.26			6.73	3.89		126,761		342,103				
FKE-0525	133.35	137.36	+6096 /-000	4.14		+1778 /-000	138.68			6.73		±.100	3.89	±.150	133,099	359,209
FKE-0550	139.70	143.71		4.14	145.26			6.73	3.89	139,437	376,312					
FKE-0575	146.05	150.06		4.14	151.51			6.73	3.89	145,775	393,418					
FKE-0600	152.40	157.38		4.14	158.90			8.03	3.89	188,696	410,525					
FKE-0625	158.75	163.73	4.14	165.30			8.03	3.89	196,559	427,627						
FKE-0650	165.10	170.08	4.14	171.70	+1400 /-000		8.03	3.89	204,423	444,734						
FKE-0675	171.45	176.43	4.14	178.13			8.03	3.89	212,286	461,841						
FKE-0700	177.80	182.78	4.14	184.56			8.03	3.89	220,145	478,943						
FKE-0725	184.15	189.13	4.14	191.54			8.03	3.89	228,008	496,049						
FKE-0750	190.50	195.48	4.14	197.15	+1780 /-000		8.03	3.89	235,871	513,156						
FKE-0775	196.85	201.83	4.14	203.78		8.03	3.89	243,734	530,258							
FKE-0800	203.20	208.18	4.14	210.21		8.03	3.89	251,598	547,365							
FKE-0825	209.55	215.54	5.16	217.93		9.48	4.87	312,411	669,191							
FKE-0850	215.90	221.89	+7112 /-000	5.16	+1780 /-000	224.05		9.48	±.130	4.87	±.180	321,877	689,472			
FKE-0875	222.25	228.24		5.16		230.45	9.48	4.87		331,343		709,747				
FKE-0900	228.60	234.59		5.16		236.88	9.48	4.87		340,809		730,027				
FKE-0925	234.95	240.94		5.16		243.33	9.48	4.87		350,279		750,303				
FKE-0950	241.30	247.29	5.16	249.71		9.48	4.87	359,745		770,583						
FKE-0975	247.65	253.64	5.16	256.11		9.48	4.87	369,211		790,863						
FKE-1000	254.00	261.98	+7874 /-000	5.16		+3050 /-000	264.52			11.05		±.180	4.88	±.180	503,836	811,139
FKE-1025	260.35	268.33		5.16			270.76	11.05		4.88			516,430		831,419	
FKE-1050	266.70	274.68		5.16			277.34	11.05		4.88			529,028		851,699	
FKE-1075	273.05	281.03		5.16			283.74	11.05		4.88			541,622		871,975	
FKE-1100	279.40	287.38	5.16	290.58			11.05	4.88	554,216	892,255						

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

XAK Series-Internal Constant Section Rings

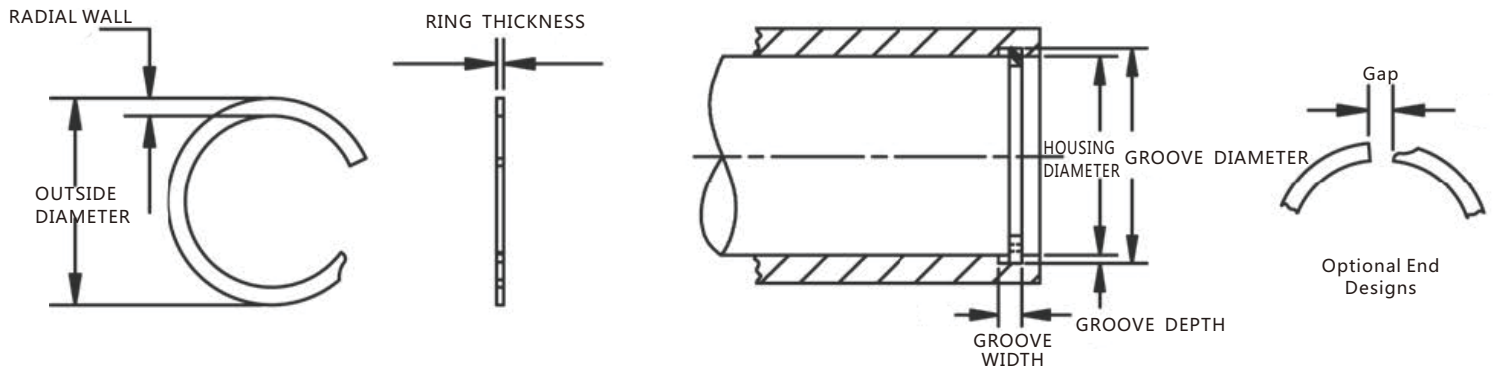


Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
XAK-37	9.53	10.03	0.71	10.16	0.89	0.64	1,203	5,330
XAK-43	11.13	11.73	0.71	11.86	0.89	0.64	1,689	6,224
XAK-50	12.70	13.31	0.99	13.46	1.02	0.89	1,925	9,411
XAK-51	13.00	13.61	0.99	13.77	1.02	0.89	1,970	9,638
XAK-56	14.27	14.99	0.99	15.24	1.22	0.89	2,524	10,583
XAK-62	15.88	16.69	0.99	17.02	1.22	0.89	3,210	11,768
XAK-68	17.48	18.29	0.99	18.62	1.22	0.89	3,532	12,953
XAK-75	19.05	19.96	0.99	20.29	1.22	0.89	4,331	14,119
XAK-77	19.74	20.65	1.17	21.01	1.57	1.07	4,490	17,733
XAK-81	20.62	21.64	1.17	22.02	1.57	1.07	5,212	18,532
XAK-87	22.23	23.34	1.17	23.72	1.57	1.07	6,179	19,967
XAK-90	22.89	24.00	1.17	24.41	1.98	1.07	6,361	20,562
XAK-93	23.83	25.04	1.17	25.48	1.98	1.07	7,223	21,406
XAK-100	25.40	26.72	1.17	27.18	1.98	1.07	7,700	22,823
XAK-102	25.98	27.31	1.17	27.79	2.36	1.07	8,535	23,345
XAK-106	26.97	28.30	1.42	28.80	2.36	1.27	8,862	28,475
XAK-112	28.58	30.00	1.42	30.53	2.36	1.27	10,111	30,164
XAK-118	30.18	31.70	1.42	32.26	2.36	1.27	11,436	31,857
XAK-125	31.75	33.38	1.42	33.96	2.77	1.27	12,835	33,519
XAK-131	33.32	35.05	1.42	35.66	2.77	1.27	14,315	35,180
XAK-137	34.93	36.75	1.42	37.39	2.77	1.27	15,885	36,869
XAK-143	36.53	38.35	1.42	38.99	3.18	1.27	16,612	38,558
XAK-145	36.98	38.91	1.42	39.55	3.18	1.27	17,756	39,039
XAK-150	38.10	40.03	1.42	40.82	3.18	1.27	18,292	40,220
XAK-156	39.67	41.71	1.73	42.37	3.18	1.57	20,049	49,949
XAK-162	41.28	43.41	1.73	44.09	3.58	1.57	21,901	51,965
XAK-165	41.99	44.12	1.73	44.83	3.58	1.57	22,278	52,859
XAK-168	42.88	45.11	1.73	45.82	3.96	1.57	23,835	53,976
XAK-175	44.45	46.79	1.73	47.50	3.96	1.57	25,833	55,960
XAK-181	46.02	48.36	1.73	49.10	3.96	1.57	26,750	57,944
XAK-185	46.99	49.43	1.73	50.17	3.96	1.57	28,498	59,156
XAK-187	47.63	50.06	1.73	50.80	3.96	1.57	28,883	59,955
XAK-193	49.23	51.77	1.73	52.53	3.96	1.57	31,094	61,971
XAK-196	49.99	52.53	1.73	53.29	3.96	1.57	31,576	62,933
XAK-200	50.80	53.34	1.73	54.13	3.96	1.57	32,093	63,955
XAK-206	52.37	55.02	2.18	55.80	3.96	1.98	34,409	79,409
XAK-212	53.98	56.62	2.18	57.40	3.96	1.98	35,462	81,834
XAK-218	55.58	58.32	2.18	59.21	4.34	1.98	37,918	84,258
XAK-225	57.15	59.89	2.18	60.78	4.34	1.98	38,990	86,646
XAK-231	58.72	61.57	2.18	62.46	4.34	1.98	41,550	89,034
XAK-237	60.33	63.17	2.18	64.08	4.34	1.98	42,681	91,458
XAK-244	61.98	64.92	2.18	65.84	4.75	1.98	45,414	93,964
XAK-250	63.50	66.45	2.18	67.39	4.75	1.98	46,530	96,275
XAK-253	64.29	67.34	2.18	68.28	4.75	1.98	48,732	97,469
XAK-256	65.07	68.22	2.62	69.24	4.75	2.36	50,975	118,394
XAK-262	66.68	69.85	2.62	70.87	4.75	2.36	52,228	121,304
XAK-268	68.28	71.53	2.62	72.54	4.75	2.36	53,481	124,219
XAK-271	69.01	72.19	2.62	73.20	4.75	2.36	55,801	125,558

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

XAK Series

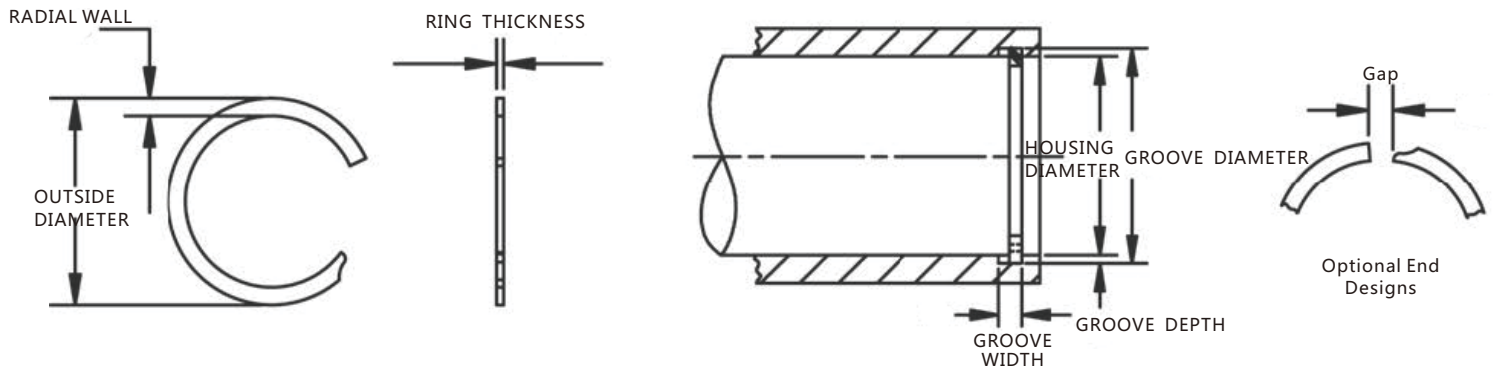


Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
XAK-275	69.85	73.10	2.62	74.12	4.75	2.36	56,482	127,084
XAK-281	71.45	74.80	2.62	75.82	4.75	2.36	59,578	129,994
XAK-283	71.98	75.34	2.62	76.35	4.75	2.36	60,023	130,965
XAK-287	73.03	76.48	2.62	77.62	4.75	2.36	62,738	132,859
XAK-300	76.20	79.65	2.62	80.80	4.75	2.36	65,467	138,633
XAK-306	77.77	81.33	3.05	82.47	5.54	2.77	68,786	158,941
XAK-312	79.38	82.93	3.05	84.10	5.54	2.77	70,202	162,210
XAK-315	80.16	83.72	3.05	84.89	5.54	2.77	70,897	163,821
XAK-325	82.55	86.21	3.05	87.43	5.54	2.77	75,092	168,697
XAK-334	84.99	88.65	3.05	89.89	5.54	2.77	77,312	173,682
XAK-346	88.11	91.77	3.05	93.04	5.54	2.77	80,154	180,065
XAK-350	88.90	92.66	3.05	93.98	6.35	2.77	83,118	181,677
XAK-354	89.99	93.75	3.05	95.12	6.35	2.77	84,140	183,906
XAK-356	90.47	94.23	3.05	95.66	6.35	2.77	84,589	184,892
XAK-362	92.08	95.83	3.05	97.31	6.35	2.77	86,083	188,165
XAK-375	95.25	99.11	3.05	100.63	6.35	2.77	91,458	194,653
XAK-387	98.43	102.29	3.05	103.86	6.35	2.77	94,509	201,140
XAK-393	100.03	103.99	3.05	105.56	6.35	2.77	98,572	204,409
XAK-400	101.60	105.56	3.05	107.21	6.35	2.77	100,125	207,628
XAK-412	104.78	108.84	3.05	110.62	6.35	2.77	105,900	214,115
XAK-425	107.95	112.01	3.05	113.92	6.35	2.77	109,110	220,608
XAK-433	109.98	114.05	3.05	115.95	6.35	2.77	111,166	224,757
XAK-443	112.67	116.74	3.05	118.62	6.35	2.77	113,886	230,260
XAK-450	114.30	118.47	3.05	120.50	6.35	2.77	118,417	233,583
XAK-462	117.48	121.79	3.05	123.83	6.35	2.77	126,158	240,071
XAK-475	120.65	125.12	3.05	127.28	7.14	2.77	134,143	246,558
XAK-500	127.00	131.57	3.05	133.73	7.14	2.77	144,413	259,538
XAK-525	133.35	138.05	3.53	140.46	7.92	3.18	155,000	298,423
XAK-537	136.53	141.35	3.53	143.76	7.92	3.18	163,867	305,528
XAK-550	139.70	144.68	3.53	147.22	7.92	3.18	172,974	312,633
XAK-575	146.05	151.13	3.53	153.67	7.92	3.18	184,524	326,844
XAK-600	152.40	157.58	3.53	160.25	7.92	3.18	196,400	341,054
XAK-625	158.75	164.03	4.42	166.83	8.71	3.96	208,595	427,350
XAK-650	165.10	170.48	4.42	173.53	8.71	3.96	221,112	444,443
XAK-662	168.28	173.86	4.42	177.17	8.71	3.96	233,864	452,992
XAK-675	171.45	177.04	4.42	180.34	8.71	3.96	238,277	461,536
XAK-700	177.80	183.39	4.42	186.69	8.71	3.96	247,103	478,634
XAK-725	184.15	190.50	5.31	193.80	9.53	4.75	290,828	561,389
XAK-750	190.50	196.85	5.31	200.41	9.53	4.75	300,857	580,748
XAK-800	203.20	209.55	5.31	213.36	9.53	4.75	320,914	619,465
XAK-825	209.55	216.92	5.31	220.09	11.10	4.75	383,893	642,310
XAK-850	215.90	223.27	5.31	226.44	11.10	4.75	395,525	661,778
XAK-875	222.25	230.63	5.31	233.81	12.70	4.75	463,321	681,241
XAK-900	228.60	236.98	5.31	240.16	12.70	4.75	476,555	700,704
XAK-905	230.00	238.35	5.31	241.53	12.70	4.75	479,469	704,985
XAK-950	241.30	249.68	5.31	252.86	12.70	4.75	503,032	739,634
XAK-984	249.94	258.32	5.31	261.49	12.70	4.75	521,038	766,102
XAK-1000	254.00	262.38	5.31	265.56	12.70	4.75	529,509	778,560

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

XDH Series-Internal Constant Section Rings

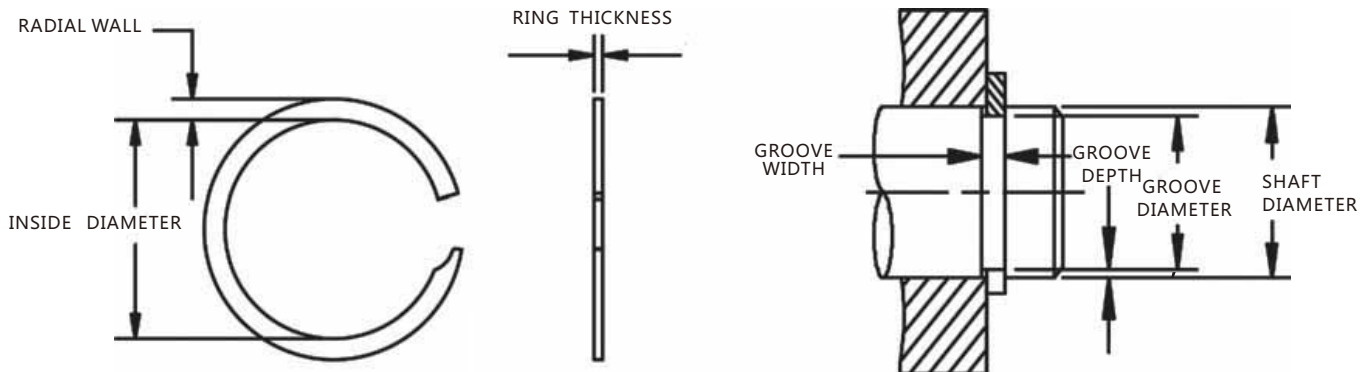


Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE				RING SIZE						THRUST LOAD		
		DIAMETER		WIDTH		OUTSIDE DIAMETER		RADIAL WALL		THICKNESS		GROOVE (N)	RING (N)	
XDK-112	28.58	30.00	±127	1.17	+0762 /-0.00	30.38	+380 /-0.00	2.36	±100	1.07	±050	10,111	25,674	
XDK-125	31.75	33.27		1.17		33.78	2.36	1.07		12,036		28,525		
XDK-137	34.93	36.45		1.17		37.08	2.36	1.07		13,239		31,380		
XDK-150	38.10	40.13		1.17		40.64	+330 /-0.00	3.18		1.07		19,254	34,232	
XDK-162	41.28	43.31		1.17		43.82	+510 /-0.00	3.18		1.07		20,861	37,083	
XDK-175	44.45	46.48	1.17	47.12	3.18	1.07		22,464	39,934					
XDK-187	47.63	49.91	±1524	1.17	+1016 /-0.00	50.55	+630 /-0.00	3.96	±130	1.07	±080	27,077	42,790	
XDK-200	50.80	53.09		1.17		53.72		3.96		1.07		28,883	45,641	
XDK-206	52.37	54.66		1.17		55.30		3.96		1.07		29,778	47,057	
XDK-218	55.55	57.84		1.17		58.47		3.96		1.07		31,585	49,908	
XDK-231	58.72	61.01		1.17		61.77		3.96		1.07		33,387	52,759	
XDK-243	61.90	64.19	±1778	1.17	+127 /-0.00	64.95	+760 /-0.00	3.96	±130	1.07	±080	35,194	55,615	
XDK-256	65.07	67.36		1.17		68.12		3.96		1.07		36,996	58,466	
XDK-300	76.20	79.35		1.73		80.11		4.75		1.57		59,692	95,930	
XDK-325	82.55	85.70		1.73		86.46		4.75		1.57		64,663	103,925	
XDK-350	88.90	92.05		1.73		92.81		4.75		1.57		69,639	111,920	
XDK-375	95.25	98.40	±2032	1.73	+127 /-0.00	99.16	+890 /-0.00	4.75	±130	1.57	±080	74,610	119,915	
XDK-400	101.60	104.78		1.73		105.54		4.75		1.57		80,226	127,910	
XDK-425	107.95	111.61		2.18		112.50		5.54		1.98		98,200	163,667	
XDK-450	114.30	117.96		2.18		118.85		5.54		1.98		103,975	173,292	
XDK-475	120.65	124.31		2.18		125.20		5.54		1.98		109,755	182,921	
XDK-500	127.00	130.66	±1778	2.18	+127 /-0.00	131.67	+1,300 /-0.00	5.54	±130	1.98	±080	115,529	192,550	
XDK-525	133.35	137.01		2.18		138.02		5.54		1.98		121,304	202,175	
XDK-575	146.05	149.71		2.18		150.72		5.54		1.98		132,859	221,429	
XDK-600	152.40	156.46		2.62		157.99		6.35		2.36		154,038	277,271	
XDK-650	165.10	169.16		2.62		170.94		+1,400 /-0.00		6.35		2.36	166,877	300,375
XDK-700	177.80	181.86	±2032	2.62	+127 /-0.00	183.90	+1,400 /-0.00	6.35	±130	2.36	±080	179,711	323,480	
XDK-725	184.15	188.21		2.62		190.50		6.35		2.36		186,131	335,034	
XDK-750	190.50	194.56		2.62		197.10		+1,780 /-0.00		6.35		2.36	192,550	346,588
XDK-800	203.20	207.26		2.62		210.44		6.35		2.36		205,385	369,692	

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

VZM Series-Metric External Single Turn Rings-Light Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
VZM-6	6.00	5.70	.38	5.65	.51	.30	439	1,988
VZM-7	7.00	6.64	.38	6.58	.51	.30	614	2,234
VZM-8	8.00	7.60	.46	7.52	.64	.38	780	3,183
VZM-9	9.00	8.50	.46	8.42	.76	.38	1,114	3,580
VZM-10	10.00	9.40	.46	9.32	.89	.38	1,462	3,978
VZM-11	11.00	10.40	.46	10.32	.89	.38	1,608	4,376
VZM-12	12.00	11.34	.56	11.22	1.14	.46	1,930	5,779
VZM-13	13.00	12.28	.56	12.15	1.14	.46	2,281	6,261
VZM-14	14.00	13.28	.56	13.15	1.14	.46	2,456	6,742
VZM-15	15.00	14.28	.56	14.14	1.14	.46	2,632	7,224
VZM-16	16.00	15.28	.56	15.13	1.14	.46	2,807	7,705
VZM-17	17.00	16.28	.56	16.13	1.14	.46	2,983	8,187
VZM-18	18.00	17.28	.56	17.12	1.14	.46	3,158	8,669
VZM-19	19.00	18.28	.56	18.11	1.14	.46	3,334	9,150
VZM-20	20.00	19.28	.56	19.10	1.14	.46	3,509	9,632
VZM-21	21.00	19.94	.66	19.74	1.65	.53	5,424	11,652
VZM-22	22.00	20.94	.66	20.73	1.65	.53	5,683	12,207
VZM-24	24.00	22.94	.66	22.72	1.65	.53	6,199	13,317
VZM-25	25.00	23.94	.66	23.71	1.65	.53	6,458	13,872
VZM-26	26.00	24.88	.79	24.63	2.24	.64	7,096	15,138
VZM-28	28.00	26.88	.79	26.62	2.24	.64	7,642	16,303
VZM-29	29.00	27.88	.79	27.61	2.24	.64	7,915	16,885
VZM-30	30.00	28.88	.79	28.59	2.24	.64	8,188	17,467
VZM-32	32.00	30.88	.79	30.57	2.24	.64	8,734	18,632
VZM-34	34.00	32.88	.79	32.56	2.24	.64	9,279	19,796
VZM-35	35.00	33.88	.79	33.55	2.24	.64	9,552	20,378
VZM-36	36.00	34.88	.79	34.54	2.24	.64	9,825	20,960
VZM-38	38.00	36.88	.79	36.52	2.24	.64	10,371	22,125
VZM-40	40.00	38.52	.99	38.09	3.00	.79	14,426	28,748
VZM-42	42.00	40.52	.99	40.07	3.00	.79	15,147	30,185
VZM-45	45.00	43.52	.99	43.04	3.00	.79	16,229	32,341
VZM-48	48.00	46.52	.99	46.01	3.00	.79	17,311	34,497
VZM-50	50.00	48.52	.99	47.99	3.00	.79	18,032	35,935
VZM-52	52.00	50.06	.99	49.48	4.01	.79	24,583	37,372
VZM-55	55.00	53.06	.99	52.46	4.01	.79	26,001	39,528
VZM-56	56.00	54.06	.99	53.44	4.01	.79	26,473	40,247
VZM-58	58.00	56.06	.99	55.42	4.01	.79	27,419	41,684
VZM-60	60.00	58.06	.99	57.40	4.01	.79	28,364	43,122
VZM-62	62.00	60.06	.99	59.37	4.01	.79	29,310	44,559
VZM-63	63.00	61.06	.99	60.35	4.01	.79	29,783	45,278
VZM-65	65.00	63.06	.99	62.33	4.01	.79	30,728	46,715
VZM-68	68.00	66.06	.99	65.31	4.01	.79	32,146	48,871
VZM-70	70.00	68.06	.99	67.29	4.01	.79	33,092	50,309
VZM-72	72.00	70.06	.99	69.27	4.01	.79	34,037	51,746
VZM-75	75.00	73.06	.99	72.25	4.01	.79	35,456	53,9027

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

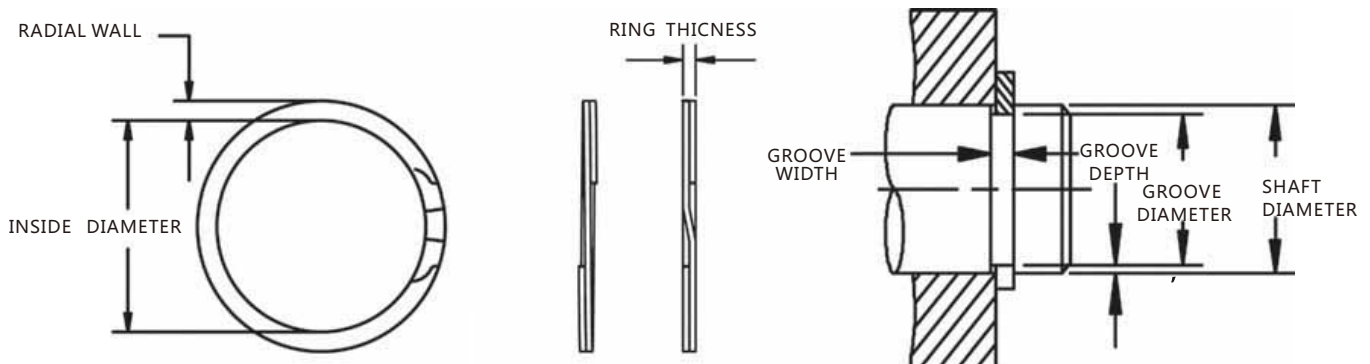
VZM Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
VZM-78	78.00	75.66	1.12	74.85	4.78	.99	44,477	70,250
VZM-80	80.00	77.66	1.12	76.82	4.78	.99	45,617	72,052
VZM-82	82.00	79.66	1.12	78.79	4.78	.99	46,757	73,853
VZM-85	85.00	82.66	1.12	81.76	4.78	.99	48,468	76,555
VZM-88	88.00	85.66	1.12	84.73	4.78	.99	50,179	79,257
VZM-90	90.00	87.66	1.12	86.69	4.78	.99	51,319	81,058
VZM-95	95.00	92.66	1.12	91.66	4.78	.99	54,170	85,561
VZM-100	100.00	97.66	1.12	96.62	4.78	.99	57,021	90,064
VZM-105	105.00	102.20	1.32	101.13	5.72	1.17	71,642	106,440
VZM-110	110.00	107.20	1.32	106.08	5.72	1.17	75,054	111,508
VZM-115	115.00	112.20	1.32	111.03	5.72	1.17	78,465	116,577
VZM-120	120.00	117.20	1.32	115.98	5.72	1.17	81,877	121,645
VZM-125	125.00	122.20	1.32	120.93	5.72	1.17	85,288	126,714
VZM-130	130.00	127.20	1.32	125.88	5.72	1.17	88,700	131,783
VZM-135	135.00	131.63	1.70	130.31	5.72	1.55	111,027	181,299
VZM-140	140.00	136.50	1.70	135.13	5.72	1.55	119,404	188,013
VZM-145	145.00	141.37	1.70	139.95	5.72	1.55	127,974	194,907
VZM-150	150.00	146.25	1.70	144.83	5.72	1.55	137,070	201,443
VZM-155	155.00	151.13	1.70	149.66	5.72	1.55	146,361	208,158
VZM-160	160.00	156.00	1.70	154.44	6.73	1.55	155,956	214,872
VZM-165	165.00	160.88	1.70	159.27	6.73	1.55	165,855	221,587
VZM-170	170.00	165.75	1.70	164.09	6.73	1.55	176,059	228,302
VZM-175	175.00	170.63	1.70	168.92	6.73	1.55	186,568	235,017
VZM-180	180.00	175.50	1.70	173.75	6.73	1.55	197,381	241,731
VZM-185	185.00	180.38	1.70	178.57	7.62	1.55	208,499	248,446
VZM-190	190.00	185.25	1.70	183.40	7.62	1.55	219,922	255,161
VZM-195	195.00	190.13	1.70	188.22	7.62	1.55	231,649	261,876
VZM-200	200.00	195.00	1.70	193.05	7.62	1.55	243,681	268,590
VZM-210	210.00	204.75	2.08	202.70	8.76	1.93	268,658	351,160
VZM-220	220.00	214.50	2.08	212.36	8.76	1.93	294,854	367,882
VZM-230	230.00	224.25	2.08	222.01	8.76	1.93	322,268	384,604
VZM-240	240.00	234.00	2.08	231.66	8.76	1.93	350,900	401,326
VZM-250	250.00	243.75	2.08	241.31	8.76	1.93	380,751	418,048
VZM-260	260.00	253.50	2.08	250.97	9.65	1.93	411,821	434,770
VZM-270	270.00	263.25	2.08	260.62	9.65	1.93	444,108	451,492
VZM-280	280.00	273.00	2.08	270.27	9.65	1.93	477,614	468,214
VZM-290	290.00	282.75	2.08	279.92	9.65	1.93	512,339	484,936
VZM-300	300.00	292.50	2.08	289.58	9.65	1.93	548,282	501,658

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

EZ Series-Metric External 2-Turn Rings-Medium Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		INSIDE DIAMETER	RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH		RADIAL WALL	THICKNESS		GROOVE (N)	RING (N)
	6.00	5.66	.74	5.61	.38 - .58	.64		500	3,160
EZ-7	7.00	6.58	.74	6.53	.51 - .71	.64		720	3,690
EZ-8	8.00	7.57	.74	7.49	.51 - .71	.64		840	4,210
EZ-9	9.00	8.48	.74	8.41	.64 - .84	.64		1,140	4,740
EZ-10	10.00	9.50	.74	9.40	.64 - .84	.64		1,220	5,270
EZ-11	11.00	10.46	.74	10.39	.76 - .96	.64		1,450	5,790
EZ-12	12.00	11.29	.70	11.18	1.02 - 1.22	.60		2,100	7,950
EZ-13	13.00	12.24	1.00	12.13	1.14 - 1.35	.89		2,410	12,100
EZ-14	14.00	13.19	1.00	13.06	1.14 - 1.35	.89		2,800	13,040
EZ-15	15.00	14.09	1.00	13.98	1.14 - 1.35	.89		3,360	13,970
EZ-16	16.00	15.02	1.00	14.90	1.27 - 1.48	.89		3,820	14,900
EZ-17	17.00	16.02	1.00	15.82	1.27 - 1.48	.89		4,060	15,830
EZ-18	18.00	16.92	1.20	16.80	1.52 - 1.73	1.07		4,730	20,150
EZ-19	19.00	17.87	1.20	17.73	1.52 - 1.73	1.07		5,270	21,270
EZ-20	20.00	18.77	1.20	18.62	1.52 - 1.73	1.07		6,040	22,390
EZ-21	21.00	19.72	1.20	19.57	1.52 - 1.73	1.07		6,550	23,510
EZ-22	22.00	20.62	1.20	20.45	1.78 - 1.98	1.07		7,390	24,630
EZ-23	23.00	21.57	1.20	21.39	1.78 - 1.98	1.07		8,070	25,750
EZ-24	24.00	22.52	1.20	22.35	1.78 - 1.98	1.07		8,650	26,870
EZ-25	25.00	23.42	1.20	23.25	2.03 - 2.24	1.07		9,620	27,990
EZ-26	26.00	24.42	1.20	24.21	2.03 - 2.24	1.07		10,000	29,110
EZ-27	27.00	25.35	1.40	25.04	2.49 - 2.69	1.27		10,910	31,170
EZ-28	28.00	26.30	1.40	26.00	2.49 - 2.69	1.27		11,590	32,330
EZ-29	29.00	27.27	1.40	26.95	2.49 - 2.69	1.27		12,290	33,480
EZ-30	30.00	28.25	1.40	27.92	2.49 - 2.69	1.27		12,860	34,640
EZ-31	31.00	29.17	1.40	28.84	2.49 - 2.69	1.27		13,890	35,790
EZ-32	32.00	30.09	1.40	29.77	2.49 - 2.69	1.27		14,960	36,950
EZ-34	34.00	31.90	1.40	31.54	2.87 - 3.07	1.27		17,390	39,260
EZ-35	35.00	32.80	1.40	32.44	2.87 - 3.07	1.27		18,750	40,410
EZ-36	36.00	33.75	1.40	33.40	2.87 - 3.07	1.27		19,810	41,560
EZ-37	37.00	34.67	1.40	34.24	2.87 - 3.07	1.27		21,080	42,720
EZ-38	38.00	35.66	1.40	35.18	2.87 - 3.07	1.27		21,650	43,870
EZ-40	40.00	37.55	1.75	37.15	3.12 - 3.33	1.57		23,960	57,090
EZ-42	42.00	39.45	1.75	39.02	3.12 - 3.33	1.57		26,180	59,990
EZ-45	45.00	42.25	1.75	41.77	3.12 - 3.33	1.57		30,240	64,230
EZ-46	46.00	43.15	1.75	42.67	3.12 - 3.33	1.57		32,040	65,660
EZ-47	47.00	44.31	1.75	43.81	3.89 - 4.09	1.57		30,900	67,080
EZ-48	48.00	45.05	1.75	44.48	3.89 - 4.09	1.57		34,600	68,510
EZ-50	50.00	47.05	1.75	46.69	3.89 - 4.09	1.57		36,040	71,370
EZ-52	52.00	50.15	1.42	49.62	3.12 - 3.33	1.25		23,550	59,090
EZ-53	53.00	51.15	1.42	50.62	3.12 - 3.33	1.25		24,000	60,230
EZ-54	54.00	52.15	1.42	51.62	3.12 - 3.33	1.25		24,460	61,370
EZ-55	55.00	53.15	1.42	52.62	3.38 - 3.58	1.25		24,910	62,500
EZ-56	56.00	54.15	1.42	53.62	3.38 - 3.58	1.25		25,370	63,640
EZ-58	58.00	56.01	1.42	55.43	3.38 - 3.58	1.25		28,250	65,910
EZ-59	59.00	57.01	1.42	56.43	3.38 - 3.58	1.25		28,730	67,050

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

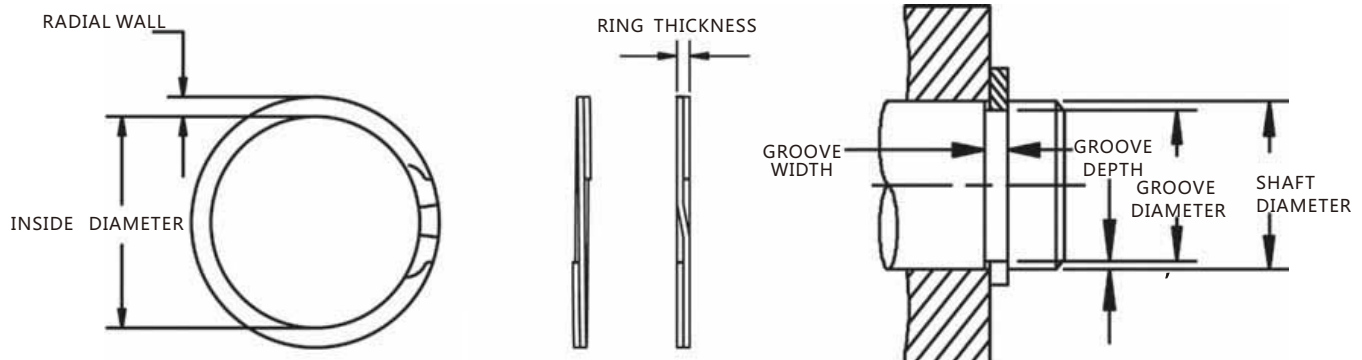
EZ Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
EZ-60	60.00	58.01	1.42	57.43	3.38 - 3.58	1.25	29,220	68,180
EZ-61	61.00	58.91	1.42	58.36	3.38 - 3.58	1.25	31,190	69,320
EZ-62	62.00	59.91	1.42	59.30	3.63 - 3.84	1.25	31,710	70,460
EZ-63	63.00	60.91	1.42	60.30	3.63 - 3.84	1.25	32,220	71,590
EZ-64	64.00	61.91	1.42	61.25	3.63 - 3.84	1.25	32,730	72,730
EZ-65	65.00	62.81	1.42	62.20	3.63 - 3.84	1.25	34,820	73,870
EZ-66	66.00	63.79	1.42	63.16	3.63 - 3.84	1.25	35,680	75,000
EZ-67	67.00	64.71	1.42	64.16	3.63 - 3.84	1.25	37,530	76,140
EZ-68	68.00	65.71	1.42	65.08	3.89 - 4.09	1.25	38,090	77,270
EZ-69	69.00	66.71	1.42	66.06	3.89 - 4.09	1.25	38,650	78,410
EZ-70	70.00	67.71	1.42	67.08	3.89 - 4.09	1.25	39,210	79,550
EZ-71	71.00	68.71	1.42	68.04	3.89 - 4.09	1.25	39,770	80,680
EZ-72	72.00	69.65	1.42	69.00	4.11 - 4.37	1.25	41,380	81,820
EZ-75	75.00	72.61	1.42	71.93	4.11 - 4.37	1.25	43,830	85,230
EZ-78	78.00	75.55	1.73	74.84	4.11 - 4.37	1.55	46,730	109,910
EZ-80	80.00	77.51	1.73	76.80	4.37 - 4.62	1.55	48,700	112,730
EZ-82	82.00	79.45	1.73	78.72	4.37 - 4.62	1.55	51,120	115,550
EZ-85	85.00	82.35	1.73	81.62	4.62 - 4.88	1.55	55,060	119,780
EZ-88	88.00	85.31	1.73	84.53	4.62 - 4.88	1.55	57,860	124,000
EZ-90	90.00	87.21	1.73	86.43	4.88 - 5.13	1.55	61,370	126,820
EZ-95	95.00	92.15	1.73	91.37	4.88 - 5.13	1.55	66,160	133,870
EZ-100	100.00	97.01	1.73	96.10	5.13 - 5.38	1.55	73,050	140,910
EZ-105	105.00	101.85	1.73	100.94	5.38 - 5.64	1.55	80,780	147,960
EZ-110	110.00	106.69	1.73	105.75	5.64 - 5.89	1.55	88,930	155,000
EZ-115	115.00	111.55	1.73	110.59	5.89 - 6.15	1.55	96,890	162,050
EZ-120	120.00	116.45	2.00	115.49	6.20 - 6.45	1.83	104,030	199,640
EZ-125	125.00	121.45	2.00	120.44	6.20 - 6.45	1.83	108,360	207,960
EZ-130	130.00	126.35	2.00	125.34	6.20 - 6.45	1.83	115,860	216,280
EZ-135	135.00	131.27	2.00	130.20	6.20 - 6.45	1.83	122,950	224,600
EZ-140	140.00	136.25	2.00	135.14	6.20 - 6.45	1.83	128,190	232,920
EZ-145	145.00	141.17	2.00	140.00	6.20 - 6.45	1.83	135,590	241,230
EZ-150	150.00	146.17	2.00	145.00	6.20 - 6.45	1.83	140,260	249,550
EZ-155	155.00	150.60	2.40	149.33	7.72 - 8.03	2.18	166,080	307,190
EZ-160	160.00	155.60	2.40	154.31	7.72 - 8.03	2.18	171,430	317,100
EZ-165	165.00	160.60	2.40	159.23	7.72 - 8.03	2.18	176,790	327,010
EZ-170	170.00	165.40	2.40	164.00	7.72 - 8.03	2.18	190,430	336,920
EZ-175	175.00	170.40	2.40	169.00	7.72 - 8.03	2.18	196,030	346,830
EZ-180	180.00	175.20	2.40	173.78	7.72 - 8.03	2.18	210,400	356,740
EZ-185	185.00	180.20	2.40	178.70	7.72 - 8.03	2.18	216,240	366,650
EZ-190	190.00	185.20	2.40	183.70	7.72 - 8.03	2.18	220,080	376,560
EZ-195	195.00	190.00	2.40	188.43	7.72 - 8.03	2.18	237,420	386,460
EZ-200	200.00	195.00	2.40	193.43	7.72 - 8.03	2.18	243,510	396,370
EZ-210	210.00	204.60	2.40	202.93	9.32 - 9.63	2.18	276,140	416,190
EZ-220	220.00	214.40	2.40	212.65	9.32 - 9.63	2.18	300,010	436,010
EZ-230	230.00	224.40	2.40	222.60	9.32 - 9.63	2.18	313,640	455,830
EZ-240	240.00	234.20	2.40	232.32	9.32 - 9.63	2.18	328,970	475,650
EZ-250	250.00	243.80	2.40	241.83	9.32 - 9.63	2.18	377,440	495,470
EZ-260	260.00	253.60	2.40	251.57	9.32 - 9.63	2.18	405,210	515,290
EZ-270	270.00	263.40	2.40	261.30	9.32 - 9.63	2.18	433,940	535,100
EZ-280	280.00	273.20	2.40	271.04	9.32 - 9.63	2.18	463,650	554,920

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

DNZ Series-Metric External 2-Turn Rings-Heavy Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
DNZ-13	13.00	12.40	1.10	12.27	1.40	.99	1,901	13,474
DNZ-14	14.00	13.40	1.10	13.26	1.40	.99	2,047	14,510
DNZ-15	15.00	14.30	1.10	14.15	1.40	.99	2,559	15,547
DNZ-16	16.00	15.20	+0.00 /-0.11	15.04	1.65	.99	3,119	16,583
DNZ-17	17.00	16.20	1.10	16.04	1.65	.99	3,314	17,620
DNZ-18	18.00	17.00	1.30	16.83	1.91	1.14	4,386	18,668
DNZ-19	19.00	18.00	1.30	17.83	1.91	1.14	4,630	19,705
DNZ-20	20.00	19.00	1.30	18.82	1.91	1.14	4,874	20,742
DNZ-21	21.00	20.00	+0.00 /-0.13	19.79	1.91	1.14	5,117	21,779
DNZ-22	22.00	21.00	1.30	20.78	1.91	1.14	5,361	22,816
DNZ-23	23.00	22.00	1.30	21.77	1.91	1.14	5,605	23,853
DNZ-24	24.00	22.90	1.30	22.66	2.18	1.14	6,433	24,891
DNZ-25	25.00	23.90	1.30	23.65	2.18	1.14	6,701	25,928
DNZ-26	26.00	24.90	1.30	24.64	2.18	1.14	6,969	26,965
DNZ-27	27.00	25.60	+0.00 /-0.21	25.34	2.18	1.14	9,211	28,002
DNZ-28	28.00	26.60	1.60	26.34	2.39	1.44	9,552	36,681
DNZ-29	29.00	27.60	1.60	27.33	2.39	1.44	9,893	37,991
DNZ-30	30.00	28.60	1.60	28.32	2.39	1.44	10,235	39,301
DNZ-32	32.00	30.30	1.60	30.00	3.25	1.44	13,256	41,921
DNZ-33	33.00	31.30	1.60	30.99	3.25	1.44	13,670	43,231
DNZ-34	34.00	32.30	1.60	31.98	3.25	1.44	14,085	44,541
DNZ-35	35.00	33.00	1.60	32.66	3.25	1.44	17,058	45,851
DNZ-36	36.00	34.00	1.85	33.65	4.01	1.69	17,545	55,349
DNZ-38	38.00	36.00	1.85	35.64	4.01	1.69	18,520	58,424
DNZ-40	40.00	37.50	1.85	37.11	4.01	1.69	24,368	61,498
DNZ-42	42.00	39.50	+0.00 /-0.25	39.09	4.01	1.69	25,586	64,573
DNZ-45	45.00	42.50	1.85	42.06	4.01	1.69	27,414	69,186
DNZ-46	46.00	43.50	1.85	43.05	4.01	1.69	28,023	70,723
DNZ-47	47.00	44.50	1.85	44.04	4.01	1.69	28,633	72,261
DNZ-48	48.00	45.50	1.85	45.03	4.01	1.69	29,242	73,798
DNZ-50	50.00	47.00	2.15	46.53	5.08	1.93	36,552	87,790
DNZ-52	52.00	49.00	2.15	48.51	5.08	1.93	38,014	91,302
DNZ-54	54.00	51.00	2.15	50.50	5.08	1.93	39,476	94,813
DNZ-55	55.00	52.00	2.15	51.49	5.08	1.93	40,207	96,569
DNZ-56	56.00	53.00	2.15	52.48	5.08	1.93	40,938	98,325
DNZ-58	58.00	55.00	2.15	54.43	5.08	1.93	42,400	101,836
DNZ-60	60.00	57.00	2.15	56.42	5.08	1.93	43,863	105,348
DNZ-62	62.00	59.00	2.15	58.42	5.08	1.93	45,325	108,860
DNZ-63	63.00	60.00	+0.00 /-0.30	59.39	5.08	1.93	46,056	110,615
DNZ-65	65.00	62.00	2.65	61.39	5.08	2.41	47,518	135,725
DNZ-67	67.00	64.00	2.65	63.37	5.08	2.41	48,980	139,901
DNZ-68	68.00	65.00	2.65	64.34	5.08	2.41	49,711	141,989
DNZ-70	70.00	67.00	2.65	66.34	5.08	2.41	51,173	146,165
DNZ-72	72.00	69.00	2.65	68.33	5.08	2.41	52,635	150,341
DNZ-75	75.00	72.00	2.65	71.33	5.08	2.41	54,828	156,605

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

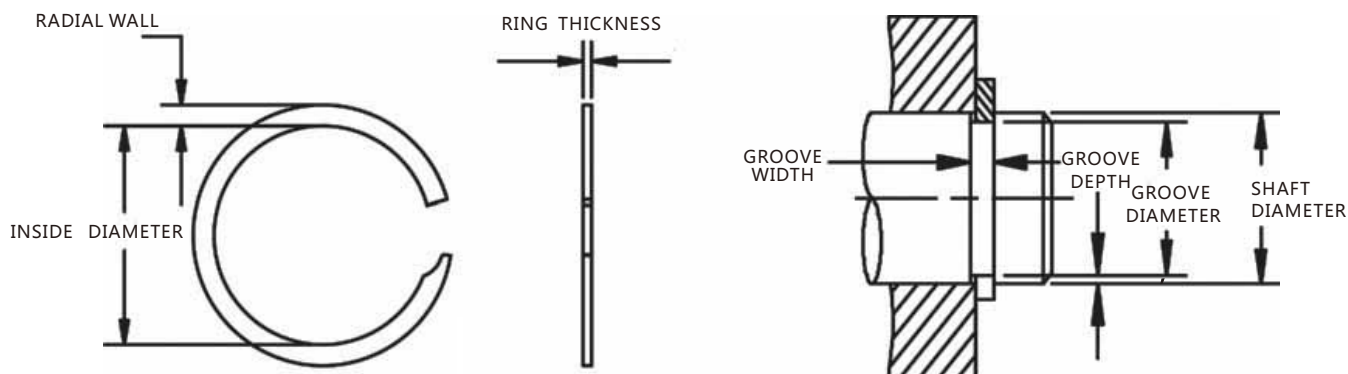
DNZ Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE			RING SIZE					THRUST LOAD	
		DIAMETER	WIDTH		INSIDE DIAMETER	RADIAL WALL	THICKNESS			GROOVE (N)	RING (N)
DNZ-77	77.00	74.00		2.65	73.33	5.08	2.41			56,290	160,782
DNZ-78	78.00	75.00	+0.00	2.65	74.33	5.08	2.41			57,021	162,870
DNZ-80	80.00	76.50	-0.30	2.65	75.81	6.05	2.41			68,231	167,046
DNZ-82	82.00	78.50		2.65	77.81	6.05	2.41			69,936	171,222
DNZ-85	85.00	81.50		3.15	80.80	6.27	2.91			72,495	214,309
DNZ-88	88.00	84.50		3.15	83.80	6.27	2.91			75,054	221,873
DNZ-90	90.00	86.50	+0.00	3.15	85.80	6.27	2.91			76,759	226,915
DNZ-95	95.00	91.50	-0.35	3.15	90.80	6.27	2.91			81,024	239,522
DNZ-98	98.00	94.50		3.15	93.79	6.27	2.91			83,583	247,086
DNZ-100	100.00	96.50		3.15	95.79	6.27	2.91			85,288	252,128
DNZ-102	102.00	98.00		4.15	97.29	6.73	3.89			99,422	343,778
DNZ-105	105.00	101.00	+0.00	4.15	100.28	6.73	3.89			102,346	353,889
DNZ-108	108.00	104.00	-0.54	4.15	103.25	6.73	3.89			105,270	364,000
DNZ-110	110.00	106.00		4.15	105.23	6.73	3.89			107,220	370,741
DNZ-115	115.00	111.00		4.15	110.19	6.73	3.89			112,093	387,593
DNZ-120	120.00	116.00		4.15	115.16	6.73	3.89			116,967	404,445
DNZ-125	125.00	121.00		4.15	120.12	6.73	3.89			121,840	421,297
DNZ-130	130.00	126.00		4.15	125.07	6.73	3.89			126,714	438,149
DNZ-135	135.00	131.00		4.15	130.02	6.73	3.89			131,588	455,001
DNZ-140	140.00	136.00		4.15	134.98	6.73	3.89			136,461	471,852
DNZ-145	145.00	141.00	+0.00	4.15	139.93	6.73	3.89			141,335	488,704
DNZ-150	150.00	145.00	-0.63	4.15	143.91	7.92	3.89			182,761	505,556
DNZ-155	155.00	150.00		4.15	148.89	7.92	3.89			188,853	522,408
DNZ-160	160.00	155.00		4.15	153.85	7.92	3.89			194,945	539,260
DNZ-165	165.00	160.00		4.15	158.80	7.92	3.89			201,037	556,112
DNZ-170	170.00	165.00		4.15	163.75	7.92	3.89			207,129	572,964
DNZ-175	175.00	170.00		4.15	168.73	7.92	3.89			213,221	589,815
DNZ-180	180.00	175.00		4.15	173.69	7.92	3.89			219,313	606,667
DNZ-185	185.00	180.00		4.15	178.66	7.92	3.89			225,405	623,519
DNZ-190	190.00	185.00		4.15	183.59	7.92	3.89			231,497	640,371
DNZ-195	195.00	190.00		4.15	188.54	7.92	3.89			237,589	657,223
DNZ-200	200.00	195.00		4.15	193.54	7.92	3.89			243,681	674,075
DNZ-205	205.00	199.00	+0.00	5.15	197.54	11.14	4.86			299,727	863,214
DNZ-210	210.00	204.00	-0.72	5.15	202.54	11.14	4.86			307,038	884,268
DNZ-220	220.00	214.00		5.15	212.47	11.14	4.86			321,659	926,376
DNZ-230	230.00	224.00		5.15	222.40	11.14	4.86			336,280	968,484
DNZ-240	240.00	234.00		5.15	232.33	11.14	4.86			350,900	1,010,592
DNZ-250	250.00	244.00		5.15	242.24	11.14	4.86			365,521	1,052,700
DNZ-260	260.00	252.00		5.15	250.19	12.70	4.86			506,856	1,094,808
DNZ-270	270.00	262.00		5.15	260.15	12.70	4.86			526,351	1,136,916
DNZ-280	280.00	272.00	+0.00	5.15	270.08	12.70	4.86			545,845	1,179,024
DNZ-290	290.00	282.00	-0.81	5.15	279.98	12.70	4.86			565,340	1,221,132
DNZ-300	300.00	292.00		5.15	289.92	12.70	4.86			584,834	1,263,241
DNZ-310	310.00	300.00		6.20	297.84	15.88	5.87			755,411	1,576,625
DNZ-320	320.00	310.00		6.20	307.84	15.88	5.87			779,779	1,627,484
DNZ-330	330.00	320.00		6.20	317.75	15.88	5.87			804,147	1,678,342
DNZ-340	340.00	330.00		6.20	327.69	15.88	5.87			828,515	1,729,201
DNZ-350	350.00	340.00		6.20	337.64	15.88	5.87			852,883	1,780,060
DNZ-360	360.00	350.00	+0.00	6.20	347.57	15.88	5.87			877,251	1,830,919
DNZ-370	370.00	360.00	-0.89	6.20	357.48	15.88	5.87			901,619	1,881,778
DNZ-380	380.00	370.00		6.20	367.41	15.88	5.87			925,987	1,932,637
DNZ-390	390.00	380.00		6.20	377.34	15.88	5.87			950,355	1,983,496
DNZ-400	400.00	390.00		6.20	387.25	15.88				974,723	2,034,354

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

FZ Series-Metric External Constant Section Rings



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
FZ-013	13.00	12.40	1.10	12.27	1.40	.94	1,931	10,591
FZ-014	14.00	13.40	1.10	13.31	1.40	.94	2,077	11,396
FZ-015	15.00	14.30	1.10	14.15	1.40	.94	2,602	12,224
FZ-016	16.00	15.20	1.10	14.98	1.65	.94	3,172	13,029
FZ-017	17.00	16.20	1.10	16.06	1.65	.94	3,367	13,838
FZ-018	18.00	17.00	1.30	16.82	1.90	1.15	4,457	17,953
FZ-019	19.00	18.00	1.30	17.81	1.90	1.15	4,702	18,941
FZ-020	20.00	19.00	1.30	18.80	1.90	1.15	4,951	19,928
FZ-021	21.00	20.00	1.30	19.79	1.90	1.15	5,200	20,942
FZ-022	22.00	21.00	1.30	20.83	1.90	1.15	5,445	21,930
FZ-023	23.00	22.00	1.30	21.77	1.90	1.15	5,698	22,939
FZ-024	24.00	22.90	1.30	22.50	2.15	1.15	6,539	23,927
FZ-025	25.00	23.90	1.30	23.70	2.15	1.15	6,806	24,914
FZ-026	26.00	24.90	1.30	24.64	2.15	1.15	7,082	25,929
FZ-027	27.00	25.90	1.30	25.50	2.15	1.15	7,353	26,916
FZ-028	28.00	26.60	1.60	26.32	3.25	1.44	9,702	33,179
FZ-029	29.00	27.60	1.60	27.15	3.25	1.44	10,053	34,385
FZ-030	30.00	28.60	1.60	28.35	3.25	1.44	10,395	35,559
FZ-032	32.00	30.30	1.60	29.87	3.25	1.44	13,073	37,939
FZ-033	33.00	31.30	1.60	31.07	3.25	1.44	13,478	39,113
FZ-034	34.00	32.30	1.60	31.96	3.25	1.44	13,892	40,319
FZ-035	35.00	33.00	1.60	32.57	3.25	1.44	16,899	41,493
FZ-036	36.00	34.00	1.85	33.64	4.01	1.69	17,375	50,038
FZ-038	38.00	36.00	1.85	35.62	4.01	1.69	18,344	52,827
FZ-040	40.00	37.50	1.85	37.02	4.01	1.69	24,265	55,621
FZ-042	42.00	39.50	1.85	39.08	4.01	1.69	25,484	58,410
FZ-045	45.00	42.50	1.85	42.05	4.01	1.69	27,303	62,578
FZ-046	46.00	43.50	1.85	43.10	4.01	1.69	27,904	63,952
FZ-047	47.00	44.50	1.85	44.03	4.01	1.69	28,504	65,331
FZ-048	48.00	45.50	1.85	44.89	4.01	1.69	29,118	66,741
FZ-050	50.00	47.00	2.15	46.50	5.08	1.93	36,529	75,282
FZ-052	52.00	49.00	2.15	48.48	5.08	1.93	37,974	78,266
FZ-054	54.00	51.00	2.15	50.46	5.08	1.93	39,438	81,287
FZ-055	55.00	52.00	2.15	51.45	5.08	1.93	40,163	82,777
FZ-056	56.00	53.00	2.15	52.44	5.08	1.93	40,906	84,307
FZ-058	58.00	55.00	2.15	54.42	5.08	1.93	42,352	87,287
FZ-060	60.00	57.00	2.15	56.55	5.08	1.93	43,819	90,308
FZ-062	62.00	59.00	2.15	58.32	5.08	1.93	45,283	93,328
FZ-063	63.00	60.00	2.15	59.37	5.08	1.93	46,008	94,823
FZ-065	65.00	62.00	2.65	61.35	5.08	2.41	47,471	116,641
FZ-067	67.00	64.00	2.65	63.35	5.08	2.41	48,939	120,240
FZ-068	68.00	65.00	2.65	64.45	5.08	2.41	49,660	122,019
FZ-070	70.00	67.00	2.65	66.22	5.08	2.41	51,128	125,618
FZ-072	72.00	69.00	2.65	68.28	5.08	2.41	52,591	129,221
FZ-075	75.00	72.00	2.65	71.25	5.08	2.41	54,780	134,599

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

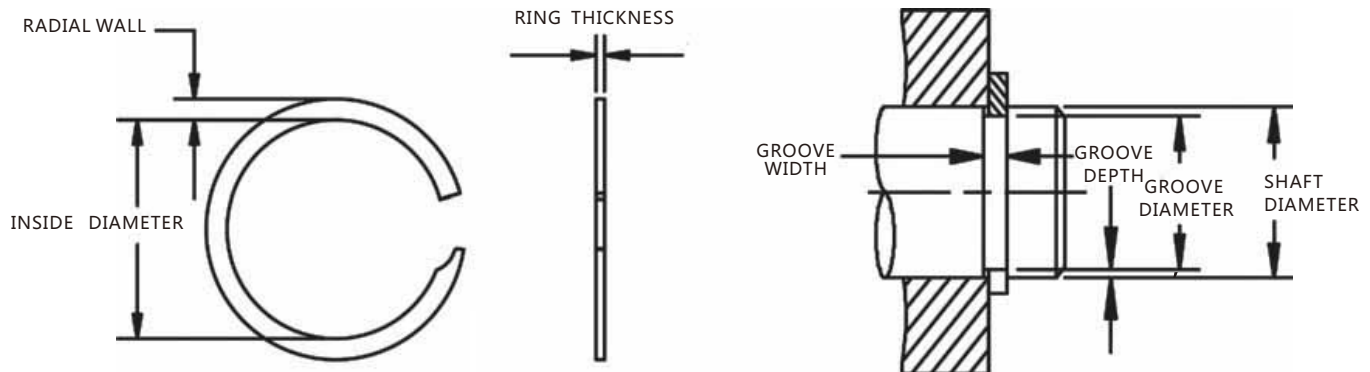
DNZ Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE			RING SIZE				THRUST LOAD		
		DIAMETER	WIDTH		INSIDE DIAMETER	RADIAL WALL		THICKNESS	GROOVE (N)	RING (N)	
FZ-077	77.00	74.00		2.65	73.23	5.08		2.41	56,230	138,153	
FZ-078	78.00	75.00	+0.00 /-0.30	2.65	74.06	+0.00 /-0.76	5.08	2.41	56,968	139,977	
FZ-080	80.00	76.50		2.65	75.70		6.02	2.41	68,342	143,575	
FZ-082	82.00	78.50		2.65	77.68		6.02	2.41	70,033	147,134	
FZ-085	85.00	81.50		3.15	80.65		6.30	2.91	72,595	175,656	
FZ-088	88.00	84.50		3.15	83.60		6.30	2.91	75,175	181,906	
FZ-090	90.00	86.50	+0.00 /-0.35	3.15	85.80	+0.00 /-0.89	6.30	2.91	76,865	185,998	
FZ-095	95.00	91.50		3.15	90.68		6.30	2.91	81,140	196,340	
FZ-098	98.00	94.50		3.15	93.70		6.30	2.91	83,702	202,536	
FZ-100	100.00	96.50		3.15	95.50		6.30	2.91	85,415	206,682	
FZ-102	102.00	98.50		3.15	97.23		6.30	2.91	87,127	210,828	
FZ-105	105.00	101.00	+0.00 /-0.54	4.15	99.83		6.73	3.89	102,687	276,951	
FZ-108	108.00	104.00		4.15	102.87		6.73	3.89	105,619	284,855	
FZ-110	110.00	106.00		4.15	104.90		6.73	3.89	107,580	290,149	
FZ-115	115.00	111.00		4.15	109.85		6.73	3.89	112,473	303,346	
FZ-120	120.00	116.00		4.15	115.06	+0.00 /-1.30	6.73	3.89	117,344	316,478	
FZ-125	125.00	121.00		4.15	119.75		6.73	3.89	122,237	329,676	
FZ-130	130.00	126.00		4.15	124.70		6.73	3.89	127,130	342,873	
FZ-135	135.00	131.00		4.15	129.65		6.73	3.89	132,023	356,071	
FZ-140	140.00	136.00		4.15	134.42		6.73	3.89	136,916	369,269	
FZ-145	145.00	141.00		4.15	139.55		6.73	3.89	141,809	382,467	
FZ-150	150.00	145.00	+0.00 /-0.63	4.15	143.50		8.03	3.89	181,986	395,665	
FZ-155	155.00	150.00		4.15	148.45		8.03	3.89	188,026	408,796	
FZ-160	160.00	155.00		4.15	153.40	+0.00 /-1.52	8.03	3.89	194,094	421,994	
FZ-165	165.00	160.00		4.15	158.40		8.03	3.89	200,166	435,192	
FZ-170	170.00	165.00		4.15	163.30		8.03	3.89	206,237	448,683	
FZ-175	175.00	170.00		4.15	168.25		8.03	3.89	212,305	461,890	
FZ-180	180.00	175.00		4.15	173.20		8.03	3.89	218,377	475,097	
FZ-185	185.00	180.00		4.15	177.62		8.03	3.89	224,417	488,232	
FZ-190	190.00	185.00		4.15	183.35		8.03	3.89	230,489	501,439	
FZ-195	195.00	190.00		4.15	188.05		8.03	3.89	236,556	514,646	
FZ-200	200.00	195.00		4.15	193.00	+0.00 /-1.78	8.03	3.89	242,628	527,853	
FZ-205	205.00	199.00		5.15	196.95		11.05	4.87	299,454	641,438	
FZ-210	210.00	204.00	+0.00 /-0.72	5.15	201.67		11.05	4.87	306,763	657,096	
FZ-220	220.00	214.00		5.15	211.80		11.05	4.87	321,344	688,327	
FZ-230	230.00	224.00		5.15	221.70		11.05	4.87	335,961	719,638	
FZ-240	240.00	234.00		5.15	231.89		11.05	4.87	350,578	750,953	
FZ-250	250.00	244.00		5.15	241.50		11.05	4.87	365,199	782,264	
FZ-260	260.00	252.00		5.15	249.59		12.70	4.87	505,300	813,500	
FZ-270	270.00	262.00	+0.00 /-0.81	5.15	259.30	+0.00 /-2.30	12.70	4.87	524,748	844,811	
FZ-280	280.00	272.00		5.15	268.83		12.70	4.87	544,200	876,126	
FZ-290	290.00	282.00		5.15	279.10		12.70	4.87	563,599	907,357	
FZ-300	300.00	292.00		5.15	289.00		12.70	4.87	583,051	938,673	

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

VZ Series-Single Turn Rings-Light Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
VZ-25	6.35	6.05	0.38	5.99	0.51	0.30	471	2,138
VZ-31	7.92	7.54	0.46	7.47	0.64	0.38	733	3,334
VZ-37	9.53	8.92	0.46	8.84	0.64	0.38	1,414	4,005
VZ-43	11.10	10.49	0.46	10.41	0.89	0.38	1,649	4,668
VZ-50	12.70	11.99	0.56	11.86	1.14	0.46	2,223	5,779
VZ-56	14.27	13.56	0.56	13.44	1.14	0.46	2,489	6,490
VZ-62	15.88	15.16	0.56	15.01	1.14	0.46	2,756	7,246
VZ-68	17.45	16.74	0.56	16.56	1.14	0.46	3,023	7,957
VZ-75	19.05	18.34	0.56	18.16	1.14	0.46	3,290	8,668
VZ-81	20.62	19.56	0.66	19.35	1.65	0.53	5,379	10,935
VZ-87	22.23	21.16	0.66	20.96	1.65	0.53	5,779	11,824
VZ-93	23.80	22.73	0.66	22.50	1.65	0.53	6,179	12,625
VZ-100	25.40	24.33	0.66	24.10	1.65	0.53	6,579	13,514
VZ-106	26.97	25.86	0.79	25.60	2.24	0.64	7,335	15,558
VZ-112	28.58	27.46	0.79	27.20	2.24	0.64	7,779	16,492
VZ-118	30.15	29.03	0.79	28.75	2.24	0.64	8,224	17,425
VZ-125	31.75	30.63	0.79	30.33	2.24	0.64	8,624	18,315
VZ-131	33.32	32.21	0.79	31.88	2.24	0.64	9,068	19,248
VZ-137	34.93	33.81	0.79	33.48	2.24	0.64	9,513	20,182
VZ-143	36.50	35.38	0.79	35.03	2.24	0.64	9,957	21,071
VZ-150	38.10	36.98	0.79	36.63	2.24	0.64	10,358	22,004
VZ-156	39.67	38.23	0.99	37.80	3.00	0.79	14,225	28,405
VZ-162	41.28	39.83	0.99	39.37	3.00	0.79	14,803	29,561
VZ-168	42.85	41.40	0.99	40.94	3.00	0.79	15,381	30,672
VZ-175	44.45	43.00	0.99	42.52	3.00	0.79	15,959	31,828
VZ-181	46.02	44.58	0.99	44.09	3.00	0.79	16,492	32,940
VZ-187	47.63	46.18	0.99	45.67	3.00	0.79	17,070	34,095
VZ-193	49.20	47.75	0.99	47.22	3.00	0.79	17,648	35,207
VZ-200	50.80	49.35	0.99	48.82	3.00	0.79	18,226	36,362
VZ-206	52.37	50.44	0.99	49.86	4.01	0.79	24,627	37,474
VZ-212	53.98	52.04	0.99	51.46	4.01	0.79	25,383	38,629
VZ-218	55.55	53.62	0.99	53.01	4.01	0.79	26,094	39,785
VZ-225	57.15	55.22	0.99	54.58	4.01	0.79	26,849	40,897
VZ-231	58.72	56.79	0.99	56.16	4.01	0.79	27,605	42,052
VZ-237	60.33	58.39	0.99	57.73	4.01	0.79	28,361	43,208
VZ-243	61.90	59.97	0.99	59.31	4.01	0.79	29,117	44,319
VZ-250	63.50	61.57	0.99	60.88	4.01	0.79	29,872	45,475
VZ-256	65.07	63.14	0.99	62.43	4.01	0.79	30,584	46,587
VZ-262	66.68	64.74	0.99	64.03	4.01	0.79	31,339	47,742
VZ-268	68.25	66.32	0.99	65.58	4.01	0.79	32,095	48,854
VZ-275	69.85	67.92	0.99	67.16	4.01	0.79	32,851	50,009
VZ-281	71.42	69.49	0.99	68.73	4.01	0.79	33,562	51,121
VZ-287	73.03	71.09	0.99	70.31	4.01	0.79	34,318	52,276
VZ-293	74.60	72.67	0.99	71.88	4.01	0.79	35,073	53,388
VZ-300	76.20	74.27	0.99	73.46	4.01	0.79	35,829	54,544

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

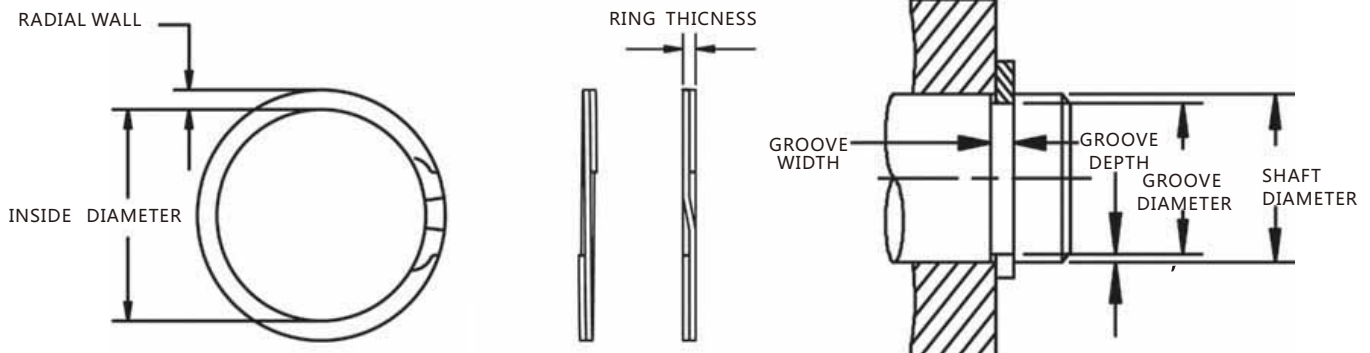
VZ Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
VZ-306	77.77	75.44	1.12	74.63	4.78	0.99	44,275	70,058
VZ-312	79.38	77.04	1.12	76.23	4.78	0.99	45,164	71,480
VZ-318	80.95	78.61	1.12	77.77	4.78	0.99	46,053	72,903
VZ-325	82.55	80.21	1.12	79.38	4.78	0.99	46,987	74,325
VZ-331	84.12	81.79	1.12	80.92	4.78	0.99	47,876	75,748
VZ-337	85.73	83.39	1.12	82.50	4.78	0.99	48,765	77,215
VZ-343	87.30	84.96	1.12	84.07	4.78	0.99	49,698	78,637
VZ-350	88.90	86.56	1.12	85.65	4.78	0.99	50,587	80,059
VZ-356	90.47	88.14	1.12	87.20	4.78	0.99	51,476	81,482
VZ-362	92.08	89.74	1.12	88.80	4.78	0.99	52,410	82,904
VZ-368	93.65	91.31	1.12	90.35	4.78	0.99	53,299	84,327
VZ-375	95.25	92.91	1.12	91.95	4.78	0.99	54,188	85,794
VZ-381	96.82	94.49	1.12	93.50	4.78	0.99	55,121	87,216
VZ-387	98.43	96.09	1.12	95.07	4.78	0.99	56,011	88,639
VZ-393	100.00	97.66	1.12	96.65	4.78	0.99	56,900	90,061
VZ-400	101.60	99.26	1.12	98.22	4.78	0.99	57,833	91,484
VZ-412	104.78	101.98	1.32	100.91	5.72	1.17	71,302	106,020
VZ-425	107.95	105.16	1.32	104.06	5.72	1.17	73,436	109,221
VZ-437	111.13	108.33	1.32	107.21	5.72	1.17	75,614	112,421
VZ-450	114.30	111.51	1.32	110.36	5.72	1.17	77,792	115,622
VZ-462	117.48	114.68	1.32	113.49	5.72	1.17	79,926	118,867
VZ-475	120.65	117.86	1.32	116.64	5.72	1.17	82,104	122,067
VZ-487	123.83	121.03	1.32	119.76	5.72	1.17	84,238	125,268
VZ-500	127.00	124.21	1.32	122.91	5.72	1.17	86,416	128,469
VZ-525	133.35	130.02	1.70	128.70	5.72	1.55	108,865	178,878
VZ-550	139.70	136.22	1.70	134.85	5.72	1.55	119,267	187,413
VZ-575	146.05	142.39	1.70	140.97	5.72	1.55	130,069	195,948
VZ-600	152.40	148.59	1.70	147.12	5.72	1.55	141,404	204,438
VZ-625	158.75	154.79	1.70	153.24	6.73	1.55	153,184	212,973
VZ-650	165.10	160.99	1.70	159.39	6.73	1.55	165,453	221,508
VZ-675	171.45	167.16	1.70	165.48	6.73	1.55	180,301	229,999
VZ-700	177.80	173.36	1.70	171.63	6.73	1.55	193,547	238,534
VZ-725	184.15	179.55	1.70	177.75	7.62	1.55	207,328	247,069
VZ-750	190.50	185.75	1.70	183.90	7.62	1.55	221,508	255,559
VZ-775	196.85	191.92	1.70	189.99	7.62	1.55	236,222	264,094
VZ-800	203.20	198.12	1.70	196.14	7.62	1.55	251,381	272,585
VZ-825	209.55	204.32	2.08	202.29	8.76	1.93	267,028	350,244
VZ-850	215.90	210.52	2.08	208.41	8.76	1.93	283,120	360,868
VZ-875	222.25	216.69	2.08	214.53	8.76	1.93	302,457	371,492
VZ-900	228.60	222.89	2.08	220.65	8.76	1.93	319,571	382,072
VZ-925	234.95	229.08	2.08	226.80	8.76	1.93	337,174	392,696
VZ-950	241.30	235.28	2.08	232.92	8.76	1.93	355,222	403,320
VZ-975	247.65	241.45	2.08	239.04	8.76	1.93	373,759	413,944
VZ-1000	254.00	247.65	2.08	245.19	8.76	1.93	392,785	424,524

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WZ Series-External 2-Turn Rings-Medium Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WZ-50	12.70	12.04	0.76	11.86	1.14	0.64	2,045	8,891
WZ-53	13.49	12.83	0.76	12.65	1.14	0.64	2,178	9,468
WZ-55	14.00	13.34	0.76	13.16	1.14	0.64	2,267	9,824
WZ-56	14.27	13.61	0.76	13.44	1.14	0.64	2,312	10,002
WZ-59	15.09	14.45	0.76	14.25	1.14	0.64	2,445	10,580
WZ-62	15.88	15.09	0.76	14.86	1.40	0.64	3,156	11,113
WZ-65	16.66	15.88	0.76	15.67	1.40	0.64	3,290	11,691
WZ-66	16.99	16.21	0.76	15.98	1.40	0.64	3,378	11,913
WZ-68	17.45	16.66	0.76	16.43	1.40	0.64	3,467	12,225
WZ-71	18.24	17.45	0.76	17.25	1.40	0.64	3,601	12,802
WZ-75	19.05	18.26	0.91	18.03	1.65	0.79	3,778	14,936
WZ-78	19.84	19.05	0.91	18.82	1.65	0.79	3,912	15,558
WZ-81	20.62	19.84	0.91	19.58	1.65	0.79	4,090	16,181
WZ-84	21.41	20.62	0.91	20.40	1.65	0.79	4,223	16,803
WZ-87	22.23	21.29	0.91	21.03	1.65	0.79	5,245	17,425
WZ-90	23.01	22.07	0.91	21.84	1.65	0.79	5,423	18,048
WZ-93	23.80	22.86	0.91	22.58	1.65	0.79	5,601	18,670
WZ-96	24.59	23.50	1.07	23.27	1.91	0.94	6,401	23,027
WZ-98	24.99	23.90	1.07	23.62	1.91	0.94	6,490	23,382
WZ-100	25.40	24.31	1.07	24.03	1.91	0.94	6,579	23,782
WZ-102	25.98	24.89	1.07	24.59	1.91	0.94	6,757	24,316
WZ-103	26.19	25.10	1.07	24.84	1.91	0.94	6,801	24,493
WZ-106	26.97	25.91	1.07	25.58	1.91	0.94	7,024	25,249
WZ-109	27.76	26.70	1.07	26.42	1.91	0.94	7,201	25,960
WZ-112	28.58	27.51	1.07	27.18	1.91	0.94	7,424	26,761
WZ-115	29.36	28.30	1.07	27.99	1.91	0.94	7,646	27,472
WZ-118	30.18	28.96	1.22	28.63	2.16	1.09	8,979	32,806
WZ-121	30.94	29.72	1.22	29.44	2.16	1.09	9,202	33,651
WZ-125	31.75	30.53	1.22	30.18	2.16	1.09	9,424	34,540
WZ-128	32.54	31.32	1.22	31.01	2.16	1.09	9,646	35,384
WZ-131	33.32	32.11	1.22	31.78	2.41	1.09	9,913	36,229
WZ-134	34.11	32.89	1.22	32.56	2.41	1.09	10,135	37,118
WZ-137	34.93	33.60	1.22	33.22	2.41	1.09	11,247	37,963
WZ-140	35.71	34.39	1.22	34.04	2.41	1.09	11,469	38,852
WZ-143	36.50	35.18	1.22	34.80	2.41	1.09	11,736	39,696
WZ-146	37.29	35.97	1.22	35.61	2.41	1.09	12,002	40,541
WZ-150	38.10	36.78	1.22	36.40	2.41	1.09	12,269	41,430
WZ-156	39.67	38.28	1.42	37.85	2.74	1.24	13,736	44,897
WZ-157	40.01	38.61	1.42	38.18	2.74	1.24	13,869	45,297
WZ-162	41.28	39.78	1.42	39.34	2.74	1.24	15,336	46,720
WZ-168	42.85	41.35	1.42	40.89	3.00	1.24	15,914	48,498
WZ-175	44.45	42.95	1.42	42.49	3.00	1.24	16,492	50,276
WZ-177	44.98	43.38	1.42	42.93	3.00	1.24	17,826	50,898
WZ-181	46.05	44.42	1.42	43.94	3.00	1.24	18,226	52,099

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WZ Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE			RING SIZE						THRUST LOAD		
		DIAMETER	WIDTH		INSIDE DIAMETER		RADIAL WALL		THICKNESS		GROOVE (N)	RING (N)	
WZ-187	47.63	45.92	±.127	1.42		45.44	+0.000 /-0.508	3.25		1.24		20,048	53,877
WZ-193	49.23	47.52		1.42		46.84		3.25		1.24		20,715	55,699
WZ-196	50.01	48.31		1.42		47.80		3.25		1.24		21,026	56,588
WZ-200	50.80	49.00		1.42		48.49		3.25		1.24		22,004	57,477
WZ-206	52.37	50.60		1.42		50.06		3.25		1.24		22,671	59,256
WZ-212	53.98	52.10		1.42		51.54		3.25		1.24		24,716	61,078
WZ-215	54.76	52.88		1.42		52.32		3.51		1.24		25,071	61,967
WZ-216	54.99	53.11		1.42		52.58		3.51		1.24		25,160	62,234
WZ-218	55.58	53.67		1.42		53.14	+0.080 /-0.130	3.51		1.24		25,427	62,901
WZ-225	57.15	55.27		1.42		54.69		3.51		1.24		26,183	64,679
WZ-231	58.72	56.74		1.42		56.16		3.51		1.24		28,316	66,457
WZ-236	59.99	58.01		1.42		57.43		3.51		1.24		28,939	67,879
WZ-237	60.33	58.34		1.42		57.73	+0.000 /-0.635	3.51		1.24		29,117	68,280
WZ-243	61.90	59.82		1.42		59.21		3.76		1.24		31,384	70,058
WZ-250	63.50	61.42		1.42		60.81		3.76		1.24		32,228	71,836
WZ-255	65.00	62.81		1.42		62.20		3.76		1.24		34,584	73,569
WZ-256	65.07	62.89		1.42		62.28		3.76		1.24		34,629	73,614
WZ-262	66.68	64.49		1.42		63.86		3.76		1.24		35,473	75,436
WZ-268	68.28	65.96		1.42		65.33		4.01		1.24		38,007	77,259
WZ-275	69.85	67.56		1.42		66.93		4.01		1.24		38,896	79,037
WZ-281	71.45	69.14		1.42		68.48		4.27		1.24		39,785	80,860
WZ-287	73.03	70.64		1.42		69.98		4.27		1.24		42,452	82,638
WZ-293	74.60	72.21		1.42		71.55		4.27		1.24		43,386	84,416
WZ-295	74.98	72.59		1.42		71.91		4.27		1.24		43,608	84,860
WZ-300	76.20	73.76		1.73		73.08		4.27		1.55		45,253	107,354
WZ-306	77.77	75.34		1.73		74.63		4.27		1.55		46,186	109,576
WZ-312	79.38	76.89		1.73		76.20		4.52		1.55		48,098	111,799
WZ-314	79.98	77.50		1.73		76.78		4.52		1.55		48,498	112,688
WZ-318	80.95	78.46		1.73		77.75		4.52		1.55	±.080	49,076	114,021
WZ-325	82.55	80.01		1.73		79.27		4.52		1.55		51,076	116,289
WZ-331	84.12	81.48		1.73		80.77		4.78		1.55		54,099	118,511
WZ-334	84.91	82.27		1.73		81.53		4.78		1.55		54,632	119,622
WZ-337	85.73	83.08		1.73		82.35		4.78		1.55		55,166	120,778
WZ-343	87.30	84.61		1.73		83.85		4.78		1.55		57,255	122,956
WZ-350	88.90	86.21		1.73		85.42		4.78		1.55		58,278	125,224
WZ-354	89.99	87.20		1.73		86.41		5.03		1.55		61,212	126,779
WZ-356	90.47	87.68		1.73		86.92		5.03		1.55		61,567	127,446
WZ-362	92.08	89.28		1.73		88.47		5.03		1.55		62,634	129,713
WZ-368	93.65	90.81		1.73		89.99		5.03		1.55		64,901	131,936
WZ-374	95.00	92.15		1.73		91.36		5.03		1.55		65,790	133,803
WZ-375	95.25	92.41		1.73		91.59		5.03	+0.100 /-0.150	1.55		65,968	134,159
WZ-381	96.82	93.98		1.73		93.17		5.03		1.55		67,079	136,381
WZ-387	98.43	95.43		1.73		94.59		5.28		1.55		71,836	138,648
WZ-393	100.03	97.03		1.73		96.11		5.28		1.55		72,991	140,915
WZ-400	101.60	98.45		1.73		97.59		5.54		1.55		77,926	143,138
WZ-406	103.20	100.05		1.73		99.21		5.54		1.55		79,170	145,361
WZ-412	104.78	101.60		1.73		100.76		5.54		1.55		80,371	147,583
WZ-413	105.00	101.85		1.73		100.97		5.54		1.55		80,548	147,894
WZ-418	106.38	103.07		1.73		102.36	+0.000 /-1.016	5.54		1.55		85,527	149,850
WZ-425	107.95	104.65		1.73		103.73		5.79		1.55		86,816	152,073
WZ-431	109.52	106.22		1.73		105.33		5.79		1.55		88,061	154,296
WZ-433	110.01	106.68		1.73		105.77		5.79		1.55		88,461	154,962
WZ-437	111.13	107.82		1.73		106.88		5.79		1.55		89,350	156,518
WZ-443	112.70	109.40		1.73		108.48		5.79		1.55		90,639	158,741
WZ-450	114.30	110.85		1.73		109.88		6.05		1.55		96,151	161,008
WZ-456	115.87	112.32		2.01		111.35		6.35		1.83		100,330	192,658
WZ-462	117.48	113.92		2.01		112.95		6.35		1.83		101,752	195,326
WZ-468	119.05	115.49		2.01		114.50		6.35		1.83		103,086	197,948
WZ-472	119.99	116.43		2.01		115.47		6.35		1.83		103,886	199,504
WZ-475	120.65	117.09		2.01		116.10		6.35		1.83		104,464	200,615
WZ-481	122.22	118.67		2.01		117.68		6.35		1.83		105,842	203,238
WZ-487	123.83	120.27		2.01		119.25		6.35		1.83		107,220	205,861

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

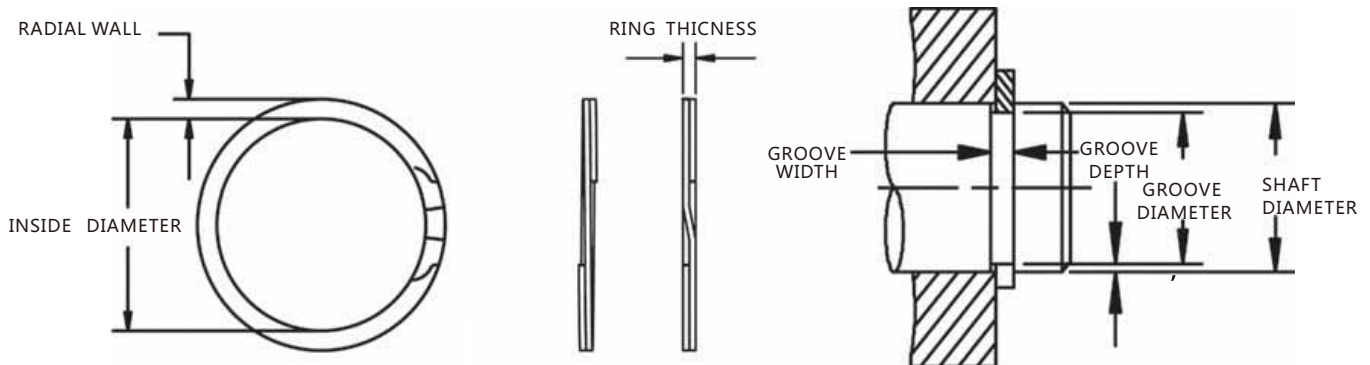
WZ Series-External 2-Turn Rings-Medium Duty

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE			RING SIZE					THRUST LOAD	
		DIAMETER	WIDTH		INSIDE DIAMETER		RADIAL WALL		THICKNESS	GROOVE (N)	RING (N)
WZ-493	125.40	121.84	±.1524	2.01	120.83	+0.000 /-1.27	6.35	+100 /-150	1.83	108,598	208,484
WZ-500	127.00	123.34		2.01	122.43		6.35		1.83	113,132	211,151
WZ-511	130.00	126.34		2.01	125.32		6.35		1.83	115,800	216,130
WZ-512	130.18	126.52		2.01	125.45		6.35		1.83	115,933	216,441
WZ-525	133.35	129.72	±.1778	2.01	128.63	+0.000 /-1.27	6.35	+100 /-150	1.83	118,778	221,731
WZ-537	136.53	132.79		2.01	131.75		6.35		1.83	125,001	226,976
WZ-550	139.70	135.97		2.01	134.82		6.35		1.83	127,891	232,266
WZ-551	139.98	136.25		2.01	135.13		6.35		1.83	128,157	232,755
WZ-562	142.88	139.14	±.1778	2.01	138.00	+0.000 /-1.27	6.35	+100 /-150	1.83	130,780	237,556
WZ-575	146.05	142.16		2.01	140.97		6.35		1.83	139,137	242,846
WZ-587	149.23	145.34		2.01	144.12		6.35		1.83	142,160	248,091
WZ-590	149.99	146.10		2.01	144.91		6.35		1.83	142,871	249,380
WZ-600	152.40	148.51	±.1778	2.01	147.27	+0.000 /-1.27	6.35	+100 /-150	1.83	145,183	253,381
WZ-612	155.58	151.21		2.39	149.94		7.92		2.18	165,498	308,947
WZ-625	158.75	154.38		2.39	153.06		7.92		2.18	168,876	315,259
WZ-629	159.99	155.63		2.39	154.33		7.92		2.18	170,210	317,749
WZ-637	161.93	157.56	±.1778	2.39	156.26	+0.000 /-1.524	7.92	+100 /-200	2.18	172,255	321,572
WZ-650	165.10	160.73		2.39	159.36		7.92		2.18	175,633	327,884
WZ-662	168.28	163.65		2.39	162.31		7.92		2.18	189,458	334,196
WZ-675	171.45	166.83		2.39	165.43		7.92		2.18	193,014	340,508
WZ-687	174.63	170.00	±.1778	2.39	168.61	+0.000 /-1.524	7.92	+100 /-200	2.18	196,570	346,776
WZ-700	177.80	173.18		2.39	171.73		7.92		2.18	200,171	353,089
WZ-712	180.98	176.10		2.39	174.68		7.92		2.18	214,929	359,401
WZ-725	184.15	179.27		2.39	177.77		7.92		2.18	218,708	365,713
WZ-737	187.33	182.45	±.1778	2.39	180.98	+0.000 /-1.524	7.92	+100 /-200	2.18	222,486	372,025
WZ-750	190.50	185.62		2.39	184.15		7.92		2.18	226,220	378,338
WZ-762	193.68	188.54		2.39	187.02		7.92		2.18	242,001	384,606
WZ-775	196.85	191.72		2.39	190.14		7.92		2.18	245,957	390,918
WZ-787	200.03	194.89	±.2032	2.39	193.32	+0.000 /-1.778	7.92	+100 /-200	2.18	249,914	397,230
WZ-800	203.20	198.07		2.39	196.44		7.92		2.18	253,870	403,543
WZ-825	209.55	204.17		2.39	202.49		9.53		2.18	274,807	416,167
WZ-850	215.90	210.52		2.39	208.79		9.53		2.18	283,120	428,747
WZ-875	222.25	216.61	±.2032	2.39	214.86	+0.000 /-1.778	9.53	+100 /-200	2.18	305,168	441,372
WZ-900	228.60	222.96		2.39	221.16		9.53		2.18	313,926	453,996
WZ-925	234.95	229.06		2.39	227.20		9.53		2.18	337,174	466,577
WZ-950	241.30	235.41		2.39	233.53		9.53		2.18	346,287	479,201
WZ-975	247.65	241.50	±.2032	2.39	239.57	+0.000 /-1.778	9.53	+100 /-200	2.18	370,692	491,826
WZ-1000	254.00	247.85		2.39	245.87		9.53		2.18	380,205	504,406
WZ-1025	260.35	253.95		2.39	251.92		9.53		2.18	405,810	517,031
WZ-1050	266.70	260.30		2.39	258.22		9.53		2.18	415,723	529,655
WZ-1075	273.05	266.40	±.2032	2.39	264.29	+0.000 /-1.778	9.53	+100 /-200	2.18	442,483	542,280
WZ-1100	279.40	272.67		2.39	270.59		9.53		2.18	452,796	554,860

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WZT Series-External spiral retaining rings-Medium-Heavy Duty



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE			RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH		INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WZT-46	11.91	11.25	±.0508	0.74	11.07	1.14	0.64	1,911	8,002
WZT-50	12.70	12.04	±.0508	0.99	11.91	1.14	0.89	2,045	11,247
WZT-55	14.00	13.31	±.0508	0.99	13.16	1.14	0.89	2,445	12,402
WZT-56	14.27	13.59	±.0508	0.99	13.44	1.14	0.89	2,489	12,625
WZT-59	15.09	14.35	±.0508	0.99	14.20	1.14	0.89	2,801	13,336
WZT-62	15.88	15.14	±.0508	0.99	14.99	1.40	0.89	2,934	14,047
WZT-66	16.99	16.21	±.0508	0.99	16.00	1.40	0.89	3,378	15,025
WZT-68	17.48	16.64	±.0508	1.17	16.46	1.65	1.07	3,690	18,581
WZT-75	19.05	18.16	±.0762	1.17	17.98	1.65	1.07	4,223	20,226
WZT-78	19.84	18.92	±.0762	1.17	18.75	1.65	1.07	4,401	21,071
WZT-81	20.62	19.71	±.0762	1.17	19.51	1.65	1.07	4,579	21,915
WZT-87	22.23	21.21	±.0762	1.17	21.01	1.91	1.07	5,512	23,604
WZT-93	23.83	22.71	±.0762	1.17	22.50	1.91	1.07	6,490	25,294
WZT-98	24.99	23.88	±.0762	1.17	23.72	1.91	1.07	6,801	26,538
WZT-100	25.40	24.26	±.0762	1.17	24.05	1.91	1.07	7,246	26,983
WZT-102	25.98	24.82	±.0762	1.17	24.61	1.91	1.07	7,379	27,605
WZT-106	26.97	25.78	±.0762	1.42	25.53	2.24	1.27	8,002	31,161
WZT-112	28.58	27.31	±.0762	1.42	27.03	2.24	1.27	8,846	32,984
WZT-118	30.18	28.83	±.0762	1.42	28.60	2.24	1.27	10,091	32,762
WZT-125	31.75	30.35	±.1016	1.42	30.07	2.36	1.27	10,980	36,674
WZT-131	33.32	31.75	±.1016	1.42	31.50	2.49	1.27	12,802	38,496
WZT-137	34.93	33.27	±.1016	1.42	32.97	2.62	1.27	14,269	40,319
WZT-143	36.53	34.80	±.1016	1.42	34.52	2.62	1.27	15,381	42,186
WZT-150	38.10	36.32	±.1016	1.42	36.04	2.62	1.27	16,492	44,008
WZT-156	39.67	37.85	±.1016	1.73	37.49	2.87	1.57	17,692	56,811
WZT-162	41.28	39.37	±.1016	1.73	39.04	3.00	1.57	19,426	59,078
WZT-168	42.85	40.89	±.1016	1.73	40.59	3.00	1.57	20,671	61,345
WZT-175	44.45	42.42	±.1016	1.73	42.09	3.00	1.57	22,004	63,656
WZT-177	44.98	42.90	±.1016	1.73	42.57	3.12	1.57	22,804	64,412
WZT-181	46.02	43.94	±.1016	1.73	43.54	3.12	1.57	23,338	65,879
WZT-187	47.63	45.47	±.1016	1.73	45.06	3.12	1.57	25,338	68,191
WZT-196	50.01	47.73	±.1016	1.73	47.35	3.12	1.57	27,827	71,613
WZT-200	50.80	48.51	±.1016	1.73	48.11	3.25	1.57	28,272	72,725
WZT-206	52.37	50.04	±.1016	2.18	49.66	3.58	1.98	29,828	94,329
WZT-212	53.98	51.49	±.1016	2.18	51.10	3.58	1.98	32,717	97,218
WZT-215	54.76	52.25	±.1016	2.18	51.84	3.58	1.98	33,873	98,641
WZT-225	57.15	54.48	±.1016	2.18	54.08	3.58	1.98	37,474	102,953
WZT-231	58.72	56.01	±.1016	2.18	55.58	3.58	1.98	39,252	105,798
WZT-237	60.33	57.53	±.1016	2.18	57.10	3.58	1.98	41,030	108,643
WZT-243	61.90	59.06	±.1016	2.18	58.60	3.58	1.98	42,897	111,488
WZT-250	63.50	60.58	±.1016	2.18	60.10	4.78	1.98	45,564	114,377
WZT-255	65.00	62.05	±.1016	2.18	61.57	4.78	1.98	46,631	117,089
WZT-262	66.68	63.63	±.1016	2.18	63.12	4.78	1.98	49,476	120,111
WZT-268	68.25	65.15	±.1016	2.18	64.64	4.78	1.98	51,521	122,956

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WZT Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WZT-275	69.85	66.68	2.62	66.14	4.78	2.36	54,455	142,871
WZT-287	73.03	69.65	2.62	69.14	4.78	2.36	60,545	149,361
WZT-293	74.60	71.15	2.62	70.61	4.78	2.36	62,767	152,562
WZT-300	76.20	72.64	2.62	72.09	4.78	2.36	65,968	155,852
WZT-306	77.77	74.17	2.62	73.58	+0.000 /-0.762	2.36	68,324	159,097
WZT-312	79.38	75.69	2.62	75.11	4.78	2.36	71,702	162,342
WZT-315	80.16	76.45	2.62	75.84	4.78	2.36	72,414	163,942
WZT-325	82.55	78.74	2.62	78.11	4.78	2.36	76,592	168,832
WZT-334	84.94	81.03	2.62	80.37	4.78	2.36	80,904	173,722
WZT-343	87.30	83.31	2.62	82.65	4.78	2.36	85,305	178,567
WZT-350	88.90	84.84	3.05	84.20	6.35	2.82	87,972	217,019
WZT-354	89.99	85.88	3.05	85.24	6.35	2.82	90,195	219,686
WZT-362	92.08	87.83	3.05	87.20	6.35	2.82	95,662	224,753
WZT-368	93.65	89.33	3.05	88.65	6.35	2.82	98,463	228,621
WZT-375	95.25	90.86	3.05	90.17	6.35	2.82	102,508	232,533
WZT-387	98.43	93.88	3.05	93.22	6.35	2.82	109,576	240,267
WZT-393	100.03	95.40	3.05	94.74	+0.000 /-1.106	2.82	112,599	244,179
WZT-400	101.60	96.90	3.05	96.19	6.35	2.82	116,911	248,047
WZT-425	107.95	103.25	3.05	102.41	6.35	2.82	124,201	263,516
WZT-437	111.13	106.43	3.05	105.71	6.35	2.82	127,846	271,295
WZT-450	114.30	109.47	3.05	108.71	6.35	2.82	134,336	279,030
WZT-475	120.65	115.57	3.05	114.68	6.35	2.82	149,273	294,544
WZT-500	127.00	121.67	3.05	120.78	6.35	2.82	164,964	310,014
WZT-525	133.35	127.76	3.53	126.87	9.53	3.23	181,456	372,470
WZT-550	139.70	133.73	3.53	132.82	+0.000 /-1.27	3.23	203,949	390,207
WZT-575	146.05	139.83	3.53	138.84	9.53	3.23	222,220	407,943
WZT-600	152.40	145.92	3.53	144.91	9.53	3.23	241,334	425,680

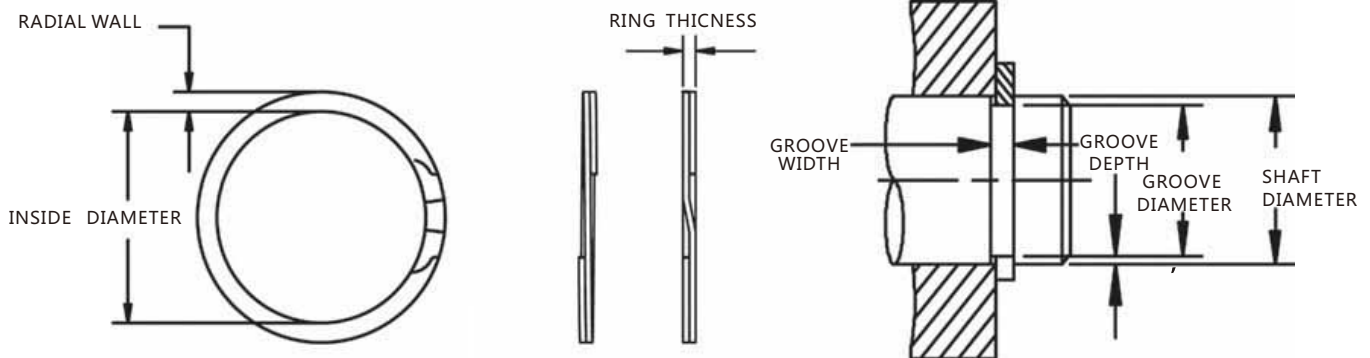
Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	HOUSING DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	OUTSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WZT-625	158.75	152.02	4.42	150.93	7.92	4.19	261,205	576,064
WZT-650	165.10	158.12	4.42	157.02	+0.000 /-1.524	4.19	281,875	599,135
WZT-675	171.45	164.21	4.42	163.07	7.92	4.19	303,301	622,161
WZT-700	177.80	170.31	4.42	169.11	7.92	4.19	325,528	645,188
WZT-725	184.15	176.33	4.42	175.11	7.92	4.19	348,021	765,433
WZT-750	190.50	182.37	5.31	181.10	9.53	4.80	377,049	791,838
WZT-775	196.85	188.47	5.31	187.15	9.53	4.80	401,809	818,243
WZT-800	203.20	194.56	5.31	193.22	9.53	4.80	427,325	844,603
WZT-825	209.55	200.66	5.31	199.26	9.53	4.80	453,641	871,008
WZT-850	215.90	206.76	5.31	205.31	+0.000 /-1.778	4.80	480,757	897,413
WZT-875	222.25	212.93	5.31	211.35	9.53	4.80	505,873	923,818
WZT-900	228.60	218.95	5.31	217.42	9.53	4.80	537,301	950,179
WZT-925	234.95	225.04	5.31	223.47	9.53	4.80	566,773	976,584
WZT-950	241.30	231.14	5.31	229.51	9.53	4.80	597,001	1,002,989
WZT-975	247.65	237.19	5.31	235.53	9.53	4.80	631,096	1,029,393
WZT-1000	254.00	243.21	5.31	241.50	9.53	4.80	669,281	1,055,754

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

WZM Series-External 2-Turn Rings-External



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WZM-25	6.35	5.84	0.74	5.79	+0.000 /-0.254	0.51	787	4,272
WZM-31	7.92	7.37	0.74	7.29	0.64	0.64	1,080	5,334
WZM-37	9.53	8.94	0.74	8.86	0.76	0.64	1,356	6,410
WZM-43	11.10	10.46	±0.058	10.39	+0.000 /-0.304	0.89	1,716	7,468
WZM-46	11.91	11.25	0.74	11.15	1.14	0.64	1,911	8,357
WZM-50	12.70	11.89	0.99	11.79	1.27	0.89	2,534	11,247
WZM-55	14.00	13.18	0.99	13.06	1.27	0.89	2,756	12,402
WZM-56	14.27	13.46	0.99	13.34	1.27	0.89	2,845	12,625
WZM-59	15.09	14.20	0.99	14.07	1.27	0.89	3,378	13,336
WZM-62	15.88	14.94	0.99	14.81	1.40	0.89	3,734	14,047
WZM-66	16.99	15.98	0.99	15.82	1.40	0.89	4,223	15,025
WZM-68	17.48	16.41	1.17	16.28	1.65	1.07	4,534	18,581
WZM-75	19.05	17.88	1.17	17.73	1.65	1.07	5,423	20,226
WZM-78	19.84	18.62	±0.0762	18.47	1.65	1.07	5,912	21,071
WZM-81	20.62	19.35	1.17	19.20	1.65	1.07	6,401	21,915
WZM-87	22.23	20.85	1.17	20.68	+0.000 /-0.330	1.07	7,424	23,604
WZM-93	23.83	22.40	1.17	22.23	1.91	1.07	8,268	25,294
WZM-98	24.99	23.52	1.17	23.34	2.16	1.07	8,979	26,538
WZM-100	25.40	23.88	1.17	23.67	2.16	1.07	9,424	26,983
WZM-102	25.98	24.41	1.17	24.21	2.16	1.07	9,957	27,605
WZM-106	26.97	25.35	1.42	25.04	2.62	1.27	10,669	31,161
WZM-112	28.58	26.90	1.42	26.59	2.62	1.27	11,647	32,984
WZM-118	30.18	28.40	1.42	28.07	2.62	1.27	13,069	34,851
WZM-125	31.75	29.87	±0.1016	29.54	2.62	1.27	14,536	36,674
WZM-131	33.32	31.29	1.42	30.94	3.00	1.27	16,492	38,496
WZM-137	34.93	32.79	1.42	32.44	3.00	1.27	18,137	40,319
WZM-143	36.53	34.29	1.42	33.93	3.00	1.27	19,870	42,186
WZM-150	38.10	35.71	1.42	35.18	3.00	1.27	22,137	44,008
WZM-156	39.67	37.29	1.73	36.91	3.25	1.57	23,071	56,811
WZM-162	41.28	38.84	1.73	38.43	3.25	1.57	24,493	59,078
WZM-168	42.85	40.36	1.73	39.95	3.25	1.57	25,960	61,345
WZM-175	44.45	41.91	1.73	41.48	3.25	1.57	27,516	63,656
WZM-177	44.98	42.39	±0.127	41.94	+0.000 /-0.508	1.57	28,361	64,412
WZM-181	46.02	43.38	1.73	42.93	3.25	1.57	29,606	65,879
WZM-187	47.63	44.93	1.73	44.48	4.01	1.57	31,206	68,191
WZM-196	50.01	47.17	1.73	46.69	4.01	1.57	34,629	71,613
WZM-200	50.80	47.90	1.73	47.42	4.01	1.57	35,829	72,725
WZM-206	52.37	49.43	2.18	49.07	4.27	1.98	37,563	94,329
WZM-212	53.98	50.88	2.18	50.52	4.27	1.98	40,719	97,218
WZM-215	54.76	51.61	2.18	51.26	4.27	1.98	42,008	98,641
WZM-225	57.15	53.85	2.18	53.47	4.27	1.98	45,964	102,953
WZM-231	58.72	55.32	2.18	54.94	4.27	1.98	48,676	105,798
WZM-237	60.33	56.87	±0.1524	56.46	+0.000 /-0.635	1.98	50,765	108,643
WZM-243	61.90	58.39	2.18	57.99	5.08	1.98	52,854	111,488
WZM-250	63.50	59.94	2.18	59.51	5.08	1.98	54,988	114,377
WZM-255	65.00	61.44	2.18	61.01	5.08	1.98	56,277	117,089
WZM-262	66.68	63.02	2.18	62.59	5.08	1.98	59,389	120,111
WZM-268	68.25	64.54	2.18	64.08	5.08	1.98	61,656	122,956

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

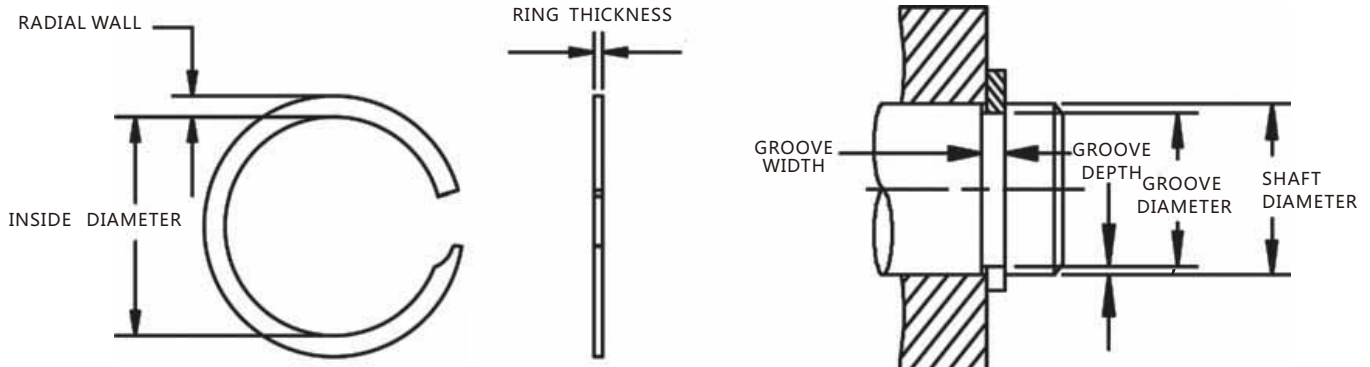
WZM Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
WZM-275	69.85	66.09	2.62	65.63	5.72	2.36	63,968	142,871
WZM-287	73.03	69.11	2.62	68.63	5.72	2.36	69,569	149,361
WZM-293	74.60	70.59	2.62	70.10	+0.000 /-0.762	2.36	72,903	152,562
WZM-300	76.20	72.09	2.62	71.58	5.72	2.36	76,370	155,852
WZM-306	77.77	73.61	2.62	73.10	5.72	2.36	78,904	159,097
WZM-312	79.38	75.11	2.62	74.57	5.72	2.36	82,504	162,342
WZM-315	80.16	75.84	2.62	75.31	5.72	2.36	84,283	163,942
WZM-325	82.55	78.13	2.62	77.57	5.72	2.36	88,861	168,832
WZM-334	84.94	80.42	2.62	79.86	5.72	2.36	93,529	173,722
WZM-343	87.30	82.73	2.62	82.14	5.72	2.36	97,218	178,567
WZM-350	88.90	84.23	±1524	83.64	6.86	+100 /-150	101,175	217,019
WZM-354	89.99	85.27	3.05	84.66	6.86	2.82	103,531	219,686
WZM-362	92.08	87.25	3.05	86.64	6.86	2.82	108,198	224,753
WZM-368	93.65	88.72	3.05	88.11	6.86	2.82	112,377	228,621
WZM-375	95.25	90.22	3.05	89.59	6.86	2.82	116,644	232,533
WZM-387	98.43	93.29	3.05	92.63	+0.000 /-0.889	2.82	123,001	240,267
WZM-393	100.03	94.84	3.05	94.18	6.86	2.82	126,201	244,179
WZM-400	101.60	96.32	3.05	95.63	6.86	2.82	130,736	248,047
WZM-425	107.95	103.25	3.05	102.54	6.86	2.82	124,201	263,516
WZM-437	111.13	106.43	3.05	105.69	6.86	2.82	127,846	271,295
WZM-450	114.30	109.47	3.05	108.71	6.86	2.82	134,336	279,030
WZM-475	120.65	115.57	3.05	114.76	6.86	2.82	164,164	294,544
WZM-500	127.00	121.67	3.05	120.80	6.86	2.82	164,964	310,014
WZM-525	133.35	127.76	3.53	126.87	8.89	3.23	181,456	372,470
WZM-550	139.70	133.73	±1778	132.79	+0.000 /-1.27	3.23	203,949	390,207
WZM-575	146.05	139.83	3.53	138.84	8.89	3.23	222,220	407,943
WZM-600	152.40	145.92	3.53	144.91	8.89	3.23	241,334	425,680
WZM-625	158.75	152.02	4.42	150.83	10.62	3.96	261,205	544,636
WZM-650	165.10	158.12	4.42	157.00	+0.000 /-1.524	3.96	281,875	566,418
WZM-675	171.45	164.21	4.42	162.81	10.62	3.96	303,301	588,244
WZM-700	177.80	170.31	4.42	168.86	10.62	3.96	325,528	610,026
WZM-725	184.15	176.33	4.42	175.03	10.62	3.96	350,821	631,808
WZM-750	190.50	182.37	5.31	181.10	11.10	4.75	377,049	783,436
WZM-775	196.85	188.47	5.31	187.15	11.10	4.75	401,809	809,574
WZM-800	203.20	194.56	±2032	193.19	11.10	4.75	427,325	835,668
WZM-825	209.55	200.66	5.31	199.26	11.10	4.75	453,641	861,806
WZM-850	215.90	206.76	5.31	205.31	+0.000 /-1.778	4.75	480,757	887,900
WZM-875	222.25	212.93	5.31	211.43	11.10	4.75	505,873	914,038
WZM-900	228.60	218.95	5.31	217.42	12.70	4.75	537,301	940,132
WZM-925	234.95	225.04	5.31	223.47	12.70	4.75	566,773	966,271
WZM-950	241.30	231.14	5.31	229.51	12.70	4.75	597,001	992,364
WZM-975	247.65	237.18	5.31	235.59	12.70	4.75	631,096	1,018,503
WZM-1000	254.00	243.21	5.31	241.50	12.70	4.75	669,281	1,044,596
WZM-1025	260.35	249.28	5.31	247.52	12.70	4.75	702,132	1,070,735
WZM-1050	266.70	255.37	5.31	253.59	12.70	4.75	735,738	1,096,828
WZM-1075	273.05	261.44	5.31	259.61	12.70	4.75	773,523	1,122,967
WZM-1100	279.40	267.54	5.31	265.66	12.70	4.75	808,819	1,149,060
WZM-1125	285.75	273.61	5.31	271.58	12.70	4.75	844,870	1,175,154
WZM-1150	292.10	279.68	±254	277.72	+0.000 /-2.286	4.75	885,322	1,201,292
WZM-1175	298.45	285.75	5.31	283.74	14.27	4.75	923,018	1,227,431
WZM-1200	304.80	291.85	5.31	289.81	14.27	4.75	961,514	1,253,525
WZM-1225	311.15	297.92	5.31	295.83	14.27	4.75	1,004,633	1,279,618
WZM-1250	317.50	304.01	5.31	301.88	14.27	4.75	1,044,774	1,305,757
WZM-1275	323.85	310.08	5.31	307.95	14.27	4.75	1,085,715	1,331,850
WZM-1300	330.20	316.18	5.31	313.97	16.81	4.75	1,127,412	1,357,989
WZM-1325	336.55	322.25	5.31	319.99	16.81	4.75	1,174,087	1,384,082
WZM-1350	342.90	328.35	5.31	326.06	16.81	4.75	1,217,429	1,410,221
WZM-1375	349.25	334.42	±3048	332.08	+0.000 /-2.794	4.75	1,261,570	1,436,314
WZM-1400	355.60	340.49	5.31	338.10	16.81	4.75	1,310,913	1,462,453
WZM-1425	361.95	346.56	5.31	344.12	16.81	4.75	1,356,699	1,488,546
WZM-1450	368.30	352.65	5.31	350.19	19.05	4.75	1,403,286	1,514,685
WZM-1475	374.65	358.72	5.31	356.21	19.05	4.75	1,455,296	1,540,779
WZM-1500	381.00	364.82	5.31	362.25	19.05	4.75	1,503,527	1,566,917

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

FZE Series-External Constant Section Rings



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
FZE-0050	12.70	12.09	1.09	11.96	1.40	0.94	1,925	10,556
FZE-0056	14.27	13.51	1.09	13.31	1.40	0.94	2,706	11,863
FZE-0062	15.88	15.11	1.09	14.99	1.65	0.94	3,010	13,193
FZE-0068	17.45	16.64	1.09	16.48	1.65	0.94	3,528	14,501
FZE-0075	19.05	18.03	1.30	17.81	1.90	1.14	4,812	19,254
FZE-0081	20.62	19.61	1.30	19.41	1.90	1.14	5,212	20,848
FZE-0087	22.23	21.11	1.30	20.83	1.90	1.14	6,179	22,464
FZE-0093	23.80	22.68	1.30	22.50	2.16	1.14	6,615	24,216
FZE-0100	25.40	24.18	1.30	23.70	2.16	1.14	7,700	25,846
FZE-0106	26.97	25.76	1.30	25.50	2.16	1.15	8,181	27,444
FZE-0112	28.58	27.36	1.60	27.15	3.25	1.45	8,667	34,572
FZE-0118	30.15	28.73	1.60	28.35	3.25	1.45	10,664	36,479
FZE-0125	31.75	30.18	1.60	29.87	3.25	1.45	12,435	38,413
FZE-0131	33.32	31.55	1.60	31.06	3.25	1.45	14,737	40,320
FZE-0137	34.93	32.94	1.60	32.56	3.25	1.45	17,211	42,254
FZE-0143	36.50	34.52	1.85	34.14	4.01	1.70	17,983	51,792
FZE-0150	38.10	36.12	1.85	35.61	4.01	1.70	18,773	54,062
FZE-0156	39.67	37.34	1.85	37.01	4.01	1.70	23,059	56,296
FZE-0162	41.28	38.94	1.85	38.53	4.01	1.70	23,989	58,571
FZE-0168	42.85	40.51	1.85	40.08	4.01	1.70	24,902	60,804
FZE-0175	44.45	42.11	1.85	41.66	4.01	1.70	25,833	63,074
FZE-0181	46.02	43.69	1.85	43.10	4.01	1.70	26,750	65,308
FZE-0187	47.63	45.29	1.85	44.88	4.01	1.70	27,680	67,578
FZE-0193	49.20	46.20	2.16	45.72	5.08	1.93	36,674	75,586
FZE-0200	50.80	47.80	2.16	47.29	5.08	1.93	37,868	78,047
FZE-0206	52.37	49.38	2.16	48.87	5.08	1.93	39,039	80,467
FZE-0212	53.98	50.98	2.16	50.47	5.08	1.93	40,233	82,923
FZE-0218	55.55	52.55	2.16	52.02	5.08	1.93	41,409	85,343
FZE-0225	57.15	54.15	2.16	53.59	5.08	1.93	42,603	87,804
FZE-0231	58.72	55.73	2.16	55.14	5.08	1.93	43,775	90,223
FZE-0237	60.33	57.33	2.16	56.54	5.08	1.93	44,969	92,680
FZE-0243	61.90	58.90	2.16	58.32	5.08	1.93	46,140	95,099
FZE-0250	63.50	60.50	2.16	59.87	5.08	1.93	47,334	97,556
FZE-0256	65.07	62.08	2.64	61.34	5.08	2.41	48,510	119,184
FZE-0262	66.68	63.68	2.64	63.14	5.08	2.41	49,699	122,117
FZE-0268	68.25	65.25	2.64	64.44	5.08	2.41	50,875	125,000
FZE-0275	69.85	66.85	2.64	66.22	5.08	2.41	52,069	127,933
FZE-0281	71.42	68.43	2.64	67.69	5.08	2.41	53,241	130,816
FZE-0287	73.03	70.03	2.64	69.27	5.08	2.41	54,435	133,748
FZE-0293	74.60	71.60	2.64	70.84	5.08	2.41	55,610	136,631

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

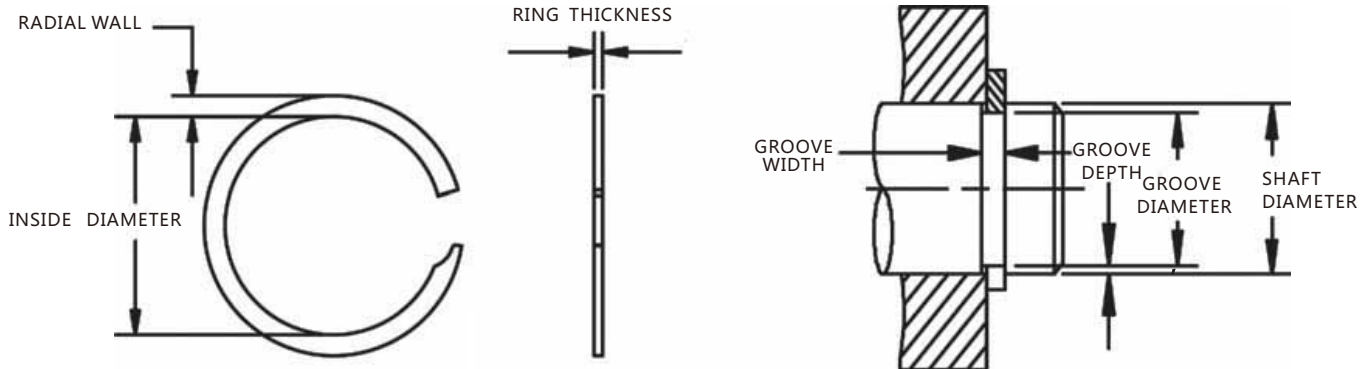
FZE Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
FZE-0300	76.20	73.20	2.64	72.44	2.41	2.41	56,800	139,560
FZE-0306	77.77	74.78	+0.000	74.07	+0.000	2.41	57,976	142,447
FZE-0312	79.38	75.87	/-.3048	75.06	/-.760	2.41	69,199	145,375
FZE-0318	80.95	77.44	2.64	76.61	2.41	2.41	70,570	148,263
FZE-0325	82.55	79.04	2.64	78.21	2.41	2.41	71,964	151,191
FZE-0331	84.12	80.62	3.15	79.76	2.92	2.92	73,339	177,460
FZE-0337	85.73	82.22	3.15	81.36	2.92	2.92	74,733	180,833
FZE-0343	87.30	83.79	3.15	82.91	2.92	2.92	76,104	184,156
FZE-0350	88.90	85.39	3.15	84.48	2.92	2.92	77,502	187,534
FZE-0356	90.47	86.97	+0.000	85.80	2.92	2.92	78,873	190,853
FZE-0362	92.08	88.57	/-.3556	87.66	+0.000	2.92	80,267	194,230
FZE-0368	93.65	90.14	3.15	89.20	/-.890	2.92	81,643	197,554
FZE-0375	95.25	91.74	3.15	90.68	2.92	2.92	83,037	200,927
FZE-0381	96.82	93.32	3.15	92.35	2.92	2.92	84,408	204,250
FZE-0387	98.43	94.92	3.15	93.70	2.92	2.92	85,806	207,623
FZE-0393	100.00	96.49	3.15	95.50	2.92	2.92	87,177	210,947
FZE-0400	101.60	98.09	3.15	97.23	2.92	2.92	88,571	214,324
FZE-0412	104.78	100.76	4.14	99.82	3.89	3.89	104,579	282,052
FZE-0425	107.95	103.94	4.14	102.87	3.89	3.89	107,748	290,596
FZE-0437	111.13	107.11	+0.000	106.02	3.89	3.89	110,917	299,145
FZE-0450	114.30	110.29	/-.5334	109.14	3.89	3.89	114,086	307,694
FZE-0462	117.48	113.46	4.14	112.29	+0.000	3.89	117,255	316,238
FZE-0475	120.65	116.64	4.14	115.06	/-1.300	3.89	120,424	324,787
FZE-0487	123.83	119.81	4.14	118.57	3.89	3.89	123,592	333,331
FZE-0500	127.00	122.99	+1.778	121.72	3.89	3.89	126,761	341,880
FZE-0525	133.35	129.34	/-.000	127.99	3.89	3.89	133,099	358,973
FZE-0550	139.70	135.69	4.14	134.42	3.89	3.89	139,437	376,066
FZE-0575	146.05	142.04	4.14	140.59	3.89	3.89	145,775	393,159
FZE-0600	152.40	147.42	+0.000	145.90	3.89	3.89	188,696	410,257
FZE-0625	158.75	153.77	/-.6096	152.20	+0.000	3.89	196,559	427,350
FZE-0650	165.10	160.12	4.14	158.39	/-1.520	3.89	204,423	444,443
FZE-0675	171.45	166.47	4.14	164.74	3.89	3.89	212,286	461,841
FZE-0700	177.80	172.82	4.14	171.04	3.89	3.89	220,145	478,943
FZE-0725	184.15	179.17	4.14	177.62	3.89	3.89	228,008	496,049
FZE-0750	190.50	185.52	4.14	183.36	3.89	3.89	235,871	513,156
FZE-0775	196.85	191.87	4.14	189.92	3.89	3.89	243,734	530,258
FZE-0800	203.20	197.21	5.16	195.15	4.88	4.88	302,941	648,911
FZE-0825	209.55	203.56	5.16	201.68	+0.000	4.88	312,411	669,191
FZE-0850	215.90	209.91	/-.7112	207.75	/-1.780	4.88	321,877	689,472
FZE-0875	222.25	216.26	5.16	214.05	4.88	4.88	331,343	709,747
FZE-0900	228.60	222.61	5.16	220.29	4.88	4.88	340,809	730,027
FZE-0925	234.95	228.96	5.16	226.62	4.88	4.88	350,279	750,303
FZE-0950	241.30	234.70	5.16	231.90	4.88	4.88	396,328	770,583
FZE-0975	247.65	241.05	5.16	238.58	4.88	4.88	406,757	790,863
FZE-1000	254.00	246.02	5.16	243.48	4.88	4.88	503,836	811,139
FZE-1025	260.35	252.37	+0.000	249.58	+0.000	4.88	516,430	831,419
FZE-1050	266.70	258.72	/-.7874	256.06	/-2.300	4.88	529,028	851,699
FZE-1075	273.05	265.07	5.16	262.36	4.88	4.88	541,622	871,975
FZE-1100	279.40	271.42	5.16	268.83	4.88	4.88	554,216	892,255

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

XAZ Series-External Constant Section Rings



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
XAZ-31	7.92	7.37	0.71	7.14	1.02	0.64	1,103	4,436
XAZ-34	8.74	8.18	0.71	7.92	1.02	0.64	1,212	4,890
XAZ-35	8.99	8.38	0.71	8.13	1.02	0.64	1,362	5,030
XAZ-37	9.53	8.92	0.71	8.66	1.02	0.64	1,444	5,330
XAZ-39	9.98	9.37	0.71	9.12	1.02	0.64	1,512	5,589
XAZ-40	10.31	9.70	0.71	9.45	1.02	0.64	1,562	5,770
XAZ-43	11.13	10.46	0.71	10.21	1.02	0.64	1,825	6,224
XAZ-46	11.91	11.25	0.71	11.00	1.02	0.64	1,957	6,665
XAZ-50	12.70	12.04	0.99	11.79	1.22	0.89	2,084	9,411
XAZ-55	14.00	13.31	0.99	13.06	1.22	0.89	2,388	10,374
XAZ-56	14.27	13.56	0.99	13.31	1.22	0.89	2,524	10,583
XAZ-59	15.09	14.38	0.99	14.10	1.22	0.89	2,670	11,182
XAZ-62	15.88	15.16	0.99	14.88	1.57	0.89	2,810	11,768
XAZ-66	16.99	16.26	0.99	16.00	1.57	0.89	3,114	12,594
XAZ-68	17.48	16.66	1.17	16.36	1.57	1.07	3,532	15,699
XAZ-75	19.05	18.19	1.17	17.86	1.57	1.07	4,091	17,116
XAZ-78	19.84	18.92	1.17	18.62	1.57	1.07	4,513	17,824
XAZ-81	20.62	19.71	1.17	19.41	1.57	1.07	4,690	18,532
XAZ-87	22.23	21.21	1.17	20.83	1.98	1.07	5,616	19,967
XAZ-93	23.83	22.76	1.17	22.38	1.98	1.07	6,320	21,406
XAZ-98	24.99	23.88	1.17	23.50	1.98	1.07	6,946	22,455
XAZ-100	25.40	24.28	1.17	23.90	2.36	1.07	7,060	22,823
XAZ-102	25.98	24.82	1.17	24.43	2.36	1.07	7,550	23,345
XAZ-106	26.97	25.81	1.42	25.40	2.36	1.27	7,841	28,475
XAZ-112	28.58	27.31	1.42	26.92	2.36	1.27	9,026	30,164
XAZ-118	30.18	28.85	1.42	28.47	2.36	1.27	9,911	31,857
XAZ-125	31.75	30.33	1.42	29.95	2.36	1.27	11,232	33,519
XAZ-131	33.32	31.75	1.42	31.29	2.36	1.27	13,053	35,180
XAZ-137	34.93	33.25	1.42	32.79	2.77	1.27	14,560	36,869
XAZ-143	36.53	34.80	1.42	34.32	2.77	1.27	15,690	38,558
XAZ-150	38.10	36.32	1.42	35.76	2.77	1.27	16,848	40,220
XAZ-156	39.67	37.85	1.73	37.26	3.18	1.57	18,047	49,949
XAZ-162	41.28	39.40	1.73	38.79	3.18	1.57	19,295	51,965
XAZ-168	42.85	40.92	1.73	40.16	3.18	1.57	20,571	53,944
XAZ-175	44.45	42.42	1.73	41.66	3.18	1.57	22,464	55,960
XAZ-177	44.98	42.85	1.73	42.09	3.58	1.57	23,871	56,632
XAZ-181	46.02	43.89	1.73	43.13	3.58	1.57	24,421	57,944
XAZ-187	47.63	45.44	1.73	44.68	3.96	1.57	25,873	59,955
XAZ-196	50.01	47.73	1.73	46.96	3.96	1.57	28,434	62,965
XAZ-200	50.80	48.51	1.73	47.75	3.96	1.57	28,883	63,955
XAZ-206	52.37	49.94	2.18	49.17	3.96	1.98	31,762	79,409
XAZ-212	53.98	51.49	2.18	50.72	3.96	1.98	33,414	81,834
XAZ-215	54.76	52.22	2.18	51.46	3.96	1.98	34,595	83,028
XAZ-225	57.15	54.51	2.18	53.75	3.96	1.98	37,546	86,646
XAZ-231	58.72	55.98	2.18	55.22	4.75	1.98	40,066	89,034
XAZ-237	60.33	57.53	2.18	56.77	4.75	1.98	41,918	91,458
XAZ-243	61.90	59.06	2.18	58.29	4.75	1.98	43,797	93,846
XAZ-250	63.50	60.60	2.18	59.84	4.75	1.98	45,731	96,275

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

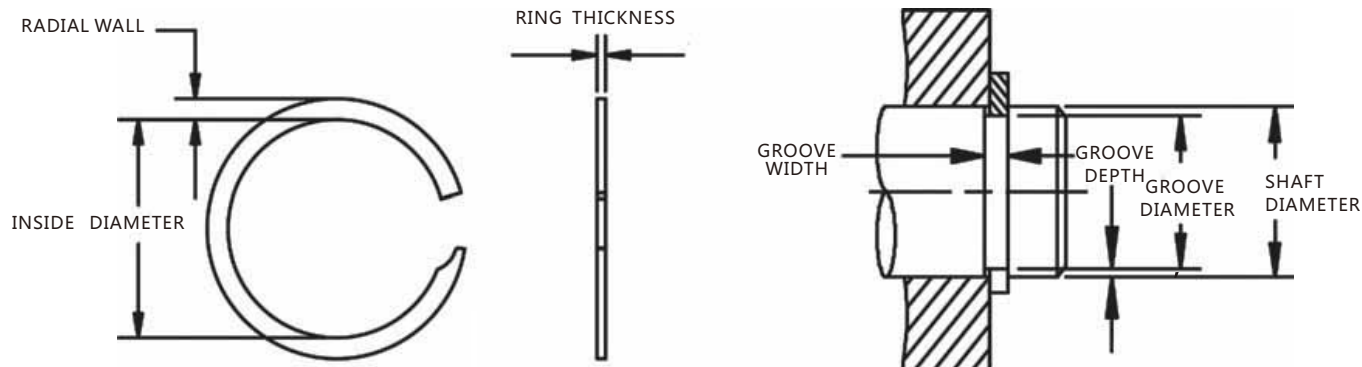
XAZ Series

Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
XAZ-255	65.00	62.05	2.18	61.29	4.75	1.98	47,629	98,545
XAZ-262	66.68	63.63	2.18	62.87	4.75	1.98	50,544	101,088
XAZ-268	68.25	65.15	2.18	64.39	4.75	1.98	52,600	103,476
XAZ-275	69.85	66.65	2.62	65.89	4.75	2.36	55,597	127,084
XAZ-287	73.03	69.67	2.62	68.91	4.75	2.36	60,895	132,859
XAZ-293	74.60	71.15	2.62	70.38	4.75	2.36	64,091	135,723
XAZ-300	76.20	72.64	2.62	71.88	5.54	2.36	67,392	138,633
XAZ-306	77.77	74.17	2.62	73.41	5.54	2.36	69,766	141,498
XAZ-312	79.38	75.72	2.62	74.96	5.54	2.36	72,204	144,413
XAZ-315	80.16	76.45	2.62	75.69	5.54	2.36	73,934	145,843
XAZ-325	82.55	78.74	2.62	77.98	6.35	2.36	78,224	150,188
XAZ-334	84.94	81.03	2.62	80.26	6.35	2.36	82,633	154,533
XAZ-343	87.30	83.34	2.62	82.58	6.35	2.36	86,033	158,827
XAZ-350	88.90	84.84	3.05	83.95	6.35	2.77	89,856	181,677
XAZ-354	89.99	85.88	3.05	84.99	6.35	2.77	92,098	183,906
XAZ-362	92.08	87.83	3.05	86.94	6.35	2.77	97,138	188,165
XAZ-368	93.65	89.33	3.05	88.44	6.35	2.77	100,575	191,384
XAZ-375	95.25	90.83	3.05	89.94	6.35	2.77	104,697	194,653
XAZ-387	98.43	93.90	3.05	92.89	7.14	2.77	110,676	201,140
XAZ-393	100.03	95.45	3.05	94.31	7.14	2.77	113,736	204,409
XAZ-400	101.60	96.93	3.05	95.78	7.14	2.77	118,094	207,628
XAZ-425	107.95	103.28	3.05	102.01	7.14	2.77	125,477	220,608
XAZ-437	111.13	106.45	3.05	105.18	7.14	2.77	129,168	227,095
XAZ-450	114.30	109.47	3.05	108.08	7.92	2.77	137,190	233,583
XAZ-475	120.65	115.57	3.05	114.17	7.92	2.77	152,435	246,558
XAZ-500	127.00	121.67	3.05	120.14	7.92	2.77	168,479	259,538
XAZ-525	133.35	127.76	3.53	126.24	9.53	3.18	185,327	298,423
XAZ-550	139.70	133.76	3.53	132.23	9.53	3.18	206,506	312,633
XAZ-575	146.05	139.85	3.53	138.33	9.53	3.18	225,120	326,844
XAZ-590	149.86	143.66	3.53	142.24	9.53	3.18	230,995	335,370
XAZ-600	152.40	145.95	3.53	144.45	9.53	3.18	244,538	341,054
XAZ-625	158.75	152.04	4.42	150.27	11.10	3.96	264,755	427,350
XAZ-650	165.10	158.14	4.42	156.24	11.10	3.96	285,775	444,443
XAZ-675	171.45	164.24	4.42	162.20	11.10	3.96	307,594	461,536
XAZ-700	177.80	170.33	4.42	168.17	11.10	3.96	330,221	478,634
XAZ-725	184.15	176.02	5.31	173.74	12.70	4.75	372,262	564,458
XAZ-750	190.50	182.37	5.31	180.09	12.70	4.75	385,096	583,921
XAZ-800	203.20	194.56	5.31	192.02	12.70	4.75	436,444	622,847
XAZ-850	215.90	207.26	5.31	204.47	12.70	4.75	463,720	661,778
XAZ-900	228.60	219.96	5.31	217.04	12.70	4.75	490,996	700,704
XAZ-925	234.95	226.31	5.31	223.52	12.70	4.75	504,635	720,167
XAZ-950	241.30	232.66	5.31	229.62	12.70	4.75	518,277	739,634
XAZ-1000	254.00	245.36	5.31	242.19	12.70	4.75	545,554	778,560

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel

XDZ Series-External Constant Section Rings



Product Dimensions All dimensions in millimeters unless otherwise specified

RING NO.	SHAFT DIAMETER	GROOVE SIZE		RING SIZE			THRUST LOAD	
		DIAMETER	WIDTH	INSIDE DIAMETER	RING RADIAL WALL	THICKNESS	GROOVE (N)	RING (N)
XDZ-50	12.70	12.04	±0508	11.81	1.22	0.89	2,084	9,411
XDZ-62	15.88	15.16	±0508	14.91	1.57	0.89	2,810	11,768
XDZ-75	19.05	18.19	±0508	17.88	1.98	1.07	4,091	17,116
XDZ-87	22.23	21.16	±0508	20.90	2.36	1.07	5,897	19,967
XDZ-100	25.40	24.23	±0762	23.98	2.36	1.07	7,382	22,823
XDZ-112	28.58	27.36	±0762	27.05	3.18	1.07	8,667	25,674
XDZ-118	30.15	28.83	±0762	28.45	3.18	1.07	9,906	27,090
XDZ-125	31.75	30.33	±0762	29.95	3.18	1.07	11,232	28,525
XDZ-131	33.32	31.80	±0762	31.29	3.18	1.07	12,630	29,941
XDZ-137	34.93	33.25	±1016	32.74	3.18	1.07	14,560	31,380
XDZ-143	36.50	34.77	±1016	34.26	3.18	1.07	15,681	32,792
XDZ-150	38.10	36.32	±1016	35.81	3.18	1.07	16,848	34,232
XDZ-162	41.28	39.24	±1016	38.61	3.96	1.07	20,861	37,083
XDZ-168	42.85	40.82	±1016	40.18	3.96	1.07	21,656	38,499
XDZ-175	44.45	42.42	±1016	41.78	3.96	1.07	22,464	39,934
XDZ-193	49.20	47.17	±1016	46.53	3.96	1.07	24,866	44,201
XDZ-200	50.80	48.77	±1016	48.13	3.96	1.07	25,674	45,641
XDZ-218	55.55	53.52	±1016	52.88	3.96	1.07	28,075	49,908
XDZ-225	57.15	55.12	±1016	54.48	3.96	1.07	28,883	51,347
XDZ-237	60.33	58.29	±1016	57.66	3.96	1.07	30,486	54,199
XDZ-250	63.50	61.47	±1016	60.71	3.96	1.07	32,093	57,050
XDZ-275	69.85	66.70	±1016	65.94	4.75	1.57	54,716	87,935
XDZ-293	74.60	71.45	±1016	70.69	4.75	1.57	58,434	93,919
XDZ-300	76.20	73.05	±1016	72.29	4.75	1.57	59,692	95,930
XDZ-312	79.38	76.20	±1524	75.31	4.75	1.57	62,679	99,930
XDZ-325	82.55	79.38	±1524	78.49	4.75	1.57	65,185	103,925
XDZ-337	85.73	82.55	±1524	81.66	4.75	1.57	67,691	107,925
XDZ-350	88.90	85.73	±1524	84.84	4.75	1.57	70,202	111,920
XDZ-375	95.25	91.69	±1524	90.68	5.54	1.98	84,240	144,413
XDZ-400	101.60	98.04	±1524	97.03	5.54	1.98	89,856	154,038
XDZ-425	107.95	104.39	±1524	103.38	5.54	1.98	95,472	163,667
XDZ-450	114.30	110.74	±1524	109.73	5.54	1.98	101,088	173,292
XDZ-475	120.65	117.09	±1524	115.82	5.54	1.98	106,704	182,921
XDZ-500	127.00	123.44	±1524	121.92	5.54	1.98	112,320	192,550
XDZ-550	139.70	135.64	±1524	134.11	6.35	2.36	141,203	254,163
XDZ-600	152.40	148.34	±2032	146.69	6.35	2.36	154,038	277,271
XDZ-650	165.10	161.04	±2032	159.26	6.35	2.36	166,877	300,375
XDZ-700	177.80	173.74	±2032	171.83	6.35	2.36	179,711	323,480
XDZ-750	190.50	185.93	±2032	184.02	7.14	2.77	216,617	389,305
XDZ-800	203.20	198.63	±2032	196.60	7.14	2.77	231,059	415,256

Add suffix "-04" for 304 stainless steel, "-16" for 316 stainless steel



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