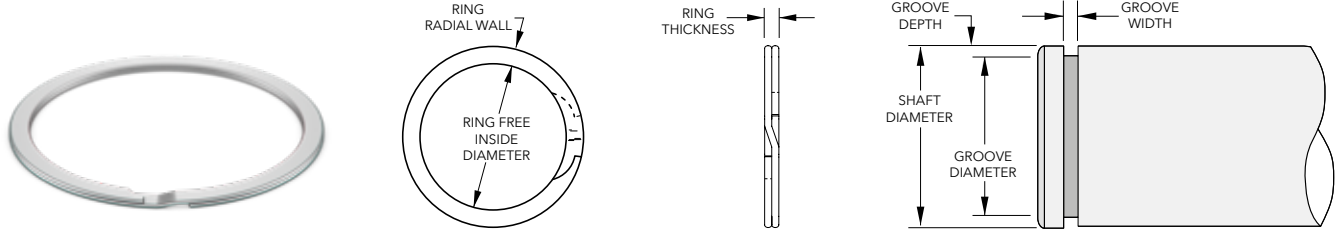




XDNS Series

Spirolox® Metric DIN Rings External

*Groove compatible with DIN 471



Product Dimensions: All dimensions in millimeters unless otherwise specified.

TFC Part Number			Shaft Diameter		Ring			Groove		Thrust Capacity	
Carbon Steel	Add Suffix		mm	in	Inside Diameter (mm)	Radial Wall (mm)	Thickness (mm)	Diameter (mm)	Width (mm)	Groove Yield ¹ (N)	Ring Shear ² (N)
	302 SS	316 SS									
XDNS-13	-S02	-S16	13,00	0,512	12,27	1,40	0,99	12,40	1,10	1,901	13,474
XDNS-14	-S02	-S16	14,00	0,551	13,26	1,40	0,99	13,40	1,10	2,047	14,510
XDNS-15	-S02	-S16	15,00	0,591	14,15	1,40	0,99	14,30	1,10	2,559	15,547
XDNS-16	-S02	-S16	16,00	0,630	15,04	1,65	0,99	15,20	1,10	3,119	16,583
XDNS-17	-S02	-S16	17,00	0,669	16,04	1,65	0,99	16,20	1,10	3,314	17,620
XDNS-18	-S02	-S16	18,00	0,709	16,83	1,91	1,14	17,00	1,30	4,386	18,668
XDNS-19	-S02	-S16	19,00	0,748	17,83	1,91	1,14	18,00	1,30	4,630	19,705
XDNS-20	-S02	-S16	20,00	0,787	18,82	1,91	1,14	19,00	1,30	4,874	20,742
XDNS-21	-S02	-S16	21,00	0,827	19,79	1,91	1,14	20,00	1,30	5,117	21,779
XDNS-22	-S02	-S16	22,00	0,866	20,78	1,91	1,14	21,00	1,30	5,361	22,816
XDNS-23	-S02	-S16	23,00	0,906	21,77	1,91	1,14	22,00	1,30	5,605	23,853
XDNS-24	-S02	-S16	24,00	0,945	22,66	2,18	1,14	22,90	1,30	6,433	24,891
XDNS-25	-S02	-S16	25,00	0,984	23,65	2,18	1,14	23,90	1,30	6,701	25,928
XDNS-26	-S02	-S16	26,00	1,024	24,64	2,18	1,14	24,90	1,30	6,969	26,965
XDNS-27	-S02	-S16	27,00	1,063	25,34	2,18	1,14	25,60	1,30	9,211	28,002
XDNS-28	-S02	-S16	28,00	1,102	26,34	2,39	1,44	26,60	1,60	9,552	36,681
XDNS-29	-S02	-S16	29,00	1,142	27,33	2,39	1,44	27,60	1,60	9,893	37,991
XDNS-30	-S02	-S16	30,00	1,181	28,32	2,39	1,44	28,60	1,60	10,235	39,301
XDNS-32	-S02	-S16	32,00	1,260	30,00	3,25	1,44	30,30	1,60	13,256	41,921
XDNS-33	-S02	-S16	33,00	1,299	30,99	3,25	1,44	31,30	1,60	13,670	43,231
XDNS-34	-S02	-S16	34,00	1,339	31,98	3,25	1,44	32,30	1,60	14,085	44,541
XDNS-35	-S02	-S16	35,00	1,378	32,66	3,25	1,44	33,00	1,60	17,058	45,851
XDNS-36	-S02	-S16	36,00	1,417	33,65	4,01	1,69	34,00	1,85	17,545	55,349
XDNS-38	-S02	-S16	38,00	1,496	35,64	4,01	1,69	36,00	1,85	18,520	58,424
XDNS-40	-S02	-S16	40,00	1,575	37,11	4,01	1,69	37,50	1,85	24,368	61,498
XDNS-42	-S02	-S16	42,00	1,654	39,09	4,01	1,69	39,50	1,85	25,586	64,573
XDNS-45	-S02	-S16	45,00	1,772	42,06	4,01	1,69	42,50	1,85	27,414	69,186
XDNS-46	-S02	-S16	46,00	1,811	43,05	4,01	1,69	43,50	1,85	28,023	70,723
XDNS-47	-S02	-S16	47,00	1,850	44,04	4,01	1,69	44,50	1,85	28,633	72,261
XDNS-48	-S02	-S16	48,00	1,890	45,03	4,01	1,69	45,50	1,85	29,242	73,798
XDNS-50	-S02	-S16	50,00	1,969	46,53	5,08	1,93	47,00	2,15	36,552	87,790
XDNS-52	-S02	-S16	52,00	2,047	48,51	5,08	1,93	49,00	2,15	38,014	91,302
XDNS-54	-S02	-S16	54,00	2,126	50,50	5,08	1,93	51,00	2,15	39,476	94,813
XDNS-55	-S02	-S16	55,00	2,165	51,49	5,08	1,93	52,00	2,15	40,207	96,569
XDNS-56	-S02	-S16	56,00	2,205	52,48	5,08	1,93	53,00	2,15	40,938	98,325
XDNS-58	-S02	-S16	58,00	2,283	54,43	5,08	1,93	55,00	2,15	42,400	101,836
XDNS-60	-S02	-S16	60,00	2,362	56,42	5,08	1,93	57,00	2,15	43,863	105,348
XDNS-62	-S02	-S16	62,00	2,441	58,42	5,08	1,93	59,00	2,15	45,325	108,860
XDNS-63	-S02	-S16	63,00	2,480	59,39	5,08	1,93	60,00	2,15	46,056	110,615
XDNS-65	-S02	-S16	65,00	2,559	61,39	5,08	2,41	62,00	2,65	47,518	135,725
XDNS-67	-S02	-S16	67,00	2,638	63,37	5,08	2,41	64,00	2,65	48,980	139,901
XDNS-68	-S02	-S16	68,00	2,677	64,34	5,08	2,41	65,00	2,65	49,711	141,989
XDNS-70	-S02	-S16	70,00	2,756	66,34	5,08	2,41	67,00	2,65	51,173	146,165
XDNS-72	-S02	-S16	72,00	2,835	68,33	5,08	2,41	69,00	2,65	52,635	150,341
XDNS-75	-S02	-S16	75,00	2,953	71,33	5,08	2,41	72,00	2,65	54,828	156,605
XDNS-77	-S02	-S16	77,00	3,031	73,33	5,08	2,41	74,00	2,65	56,290	160,782
XDNS-78	-S02	-S16	78,00	3,071	74,33	5,08	2,41	75,00	2,65	57,021	162,870
XDNS-80	-S02	-S16	80,00	3,150	75,81	6,02	2,41	76,50	2,65	68,231	167,046
XDNS-82	-S02	-S16	82,00	3,228	77,81	6,02	2,41	78,50	2,65	69,936	171,222
XDNS-85	-S02	-S16	85,00	3,346	80,80	6,27	2,91	81,50	3,15	72,495	214,309

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

² Based on a safety factor of 3.

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



TFC Part Number			Shaft Diameter		Ring			Groove		Thrust Capacity	
Carbon Steel	Add Suffix		mm	in	Inside Diameter (mm)	Radial Wall (mm)	Thickness (mm)	Diameter (mm)	Width (mm)	Groove Yield ¹ (N)	Ring Shear ² (N)
	302 SS	316 SS									
XDNS-88	-S02	-S16	88,00	3,465	83,80	6,27	2,91	84,50	3,15	75,054	221,873
XDNS-90	-S02	-S16	90,00	3,543	85,80	6,27	2,91	86,50	3,15	76,759	226,915
XDNS-95	-S02	-S16	95,00	3,740	90,80	6,27	2,91	91,50	3,15	81,024	239,522
XDNS-98	-S02	-S16	98,00	3,858	93,79	6,27	2,91	94,50	3,15	83,583	247,086
XDNS-100	-S02	-S16	100,00	3,937	95,79	6,27	2,91	96,50	3,15	85,288	252,128
XDNS-102	-S02	-S16	102,00	4,016	97,29	6,73	3,89	98,00	4,15	99,422	343,778
XDNS-105	-S02	-S16	105,00	4,134	100,28	6,73	3,89	101,00	4,15	102,346	353,889
XDNS-108	-S02	-S16	108,00	4,252	103,25	6,73	3,89	104,00	4,15	105,270	364,000
XDNS-110	-S02	-S16	110,00	4,331	105,23	6,73	3,89	106,00	4,15	107,220	370,741
XDNS-115	-S02	-S16	115,00	4,528	110,19	6,73	3,89	111,00	4,15	112,093	387,593
XDNS-120	-S02	-S16	120,00	4,724	115,16	6,73	3,89	116,00	4,15	116,967	404,445
XDNS-125	-S02	-S16	125,00	4,921	120,12	6,73	3,89	121,00	4,15	121,840	421,297
XDNS-130	-S02	-S16	130,00	5,118	125,07	6,73	3,89	126,00	4,15	126,714	438,149
XDNS-135	-S02	-S16	135,00	5,315	130,02	6,73	3,89	131,00	4,15	131,588	455,001
XDNS-140	-S02	-S16	140,00	5,512	134,98	6,73	3,89	136,00	4,15	136,461	471,852
XDNS-145	-S02	-S16	145,00	5,709	139,93	6,73	3,89	141,00	4,15	141,335	488,704
XDNS-150	-S02	-S16	150,00	5,906	143,91	7,92	3,89	145,00	4,15	182,761	505,556
XDNS-155	-S02	-S16	155,00	6,102	148,89	7,92	3,89	150,00	4,15	188,853	522,408
XDNS-160	-S02	-S16	160,00	6,299	153,85	7,92	3,89	155,00	4,15	194,945	539,260
XDNS-165	-S02	-S16	165,00	6,496	158,80	7,92	3,89	160,00	4,15	201,037	556,112
XDNS-170	-S02	-S16	170,00	6,693	163,75	7,92	3,89	165,00	4,15	207,129	572,964
XDNS-175	-S02	-S16	175,00	6,890	168,73	7,92	3,89	170,00	4,15	213,221	589,815
XDNS-180	-S02	-S16	180,00	7,087	173,69	7,92	3,89	175,00	4,15	219,313	606,667
XDNS-185	-S02	-S16	185,00	7,283	178,66	7,92	3,89	180,00	4,15	225,405	623,519
XDNS-190	-S02	-S16	190,00	7,480	183,59	7,92	3,89	185,00	4,15	231,497	640,371
XDNS-195	-S02	-S16	195,00	7,677	188,54	7,92	3,89	190,00	4,15	237,589	657,223
XDNS-200	-S02	-S16	200,00	7,874	193,54	7,92	3,89	195,00	4,15	243,681	674,075
XDNS-205	-S02	-S16	205,00	8,071	197,54	11,05	4,86	199,00	5,15	299,727	863,214
XDNS-210	-S02	-S16	210,00	8,268	202,54	11,05	4,86	204,00	5,15	307,038	884,268
XDNS-220	-S02	-S16	220,00	8,661	212,47	11,05	4,86	214,00	5,15	321,659	926,376
XDNS-230	-S02	-S16	230,00	9,055	222,40	11,05	4,86	224,00	5,15	336,280	968,484
XDNS-240	-S02	-S16	240,00	9,449	232,33	11,05	4,86	234,00	5,15	350,900	1,010,592
XDNS-250	-S02	-S16	250,00	9,843	242,24	11,05	4,86	244,00	5,15	365,521	1,052,700
XDNS-260	-S02	-S16	260,00	10,236	250,19	12,70	4,86	252,00	5,15	506,856	1,094,808
XDNS-270	-S02	-S16	270,00	10,630	260,15	12,70	4,86	262,00	5,15	526,351	1,136,916
XDNS-280	-S02	-S16	280,00	11,024	270,08	12,70	4,86	272,00	5,15	545,845	1,179,024
XDNS-290	-S02	-S16	290,00	11,417	279,98	12,70	4,86	282,00	5,15	565,340	1,221,132
XDNS-300	-S02	-S16	300,00	11,811	289,92	12,70	4,86	292,00	5,15	584,834	1,263,241
XDNS-310	-S02	-S16	310,00	12,205	297,84	15,81	5,87	300,00	6,20	755,411	1,576,625
XDNS-320	-S02	-S16	320,00	12,598	307,84	15,81	5,87	310,00	6,20	779,779	1,627,484
XDNS-330	-S02	-S16	330,00	12,992	317,75	15,81	5,87	320,00	6,20	804,147	1,678,342
XDNS-340	-S02	-S16	340,00	13,386	327,69	15,81	5,87	330,00	6,20	828,515	1,729,201
XDNS-350	-S02	-S16	350,00	13,780	337,64	15,81	5,87	340,00	6,20	852,883	1,780,060
XDNS-360	-S02	-S16	360,00	14,173	347,57	15,81	5,87	350,00	6,20	877,251	1,830,919
XDNS-370	-S02	-S16	370,00	14,567	357,48	15,81	5,87	360,00	6,20	901,619	1,881,778
XDNS-380	-S02	-S16	380,00	14,961	367,41	15,81	5,87	370,00	6,20	925,987	1,932,637
XDNS-390	-S02	-S16	390,00	15,354	377,34	15,81	5,87	380,00	6,20	950,355	1,983,496
XDNS-400	-S02	-S16	400,00	15,748	387,25	15,81	5,87	390,00	6,20	974,723	2,034,354

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

² Based on a safety factor of 3.

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