

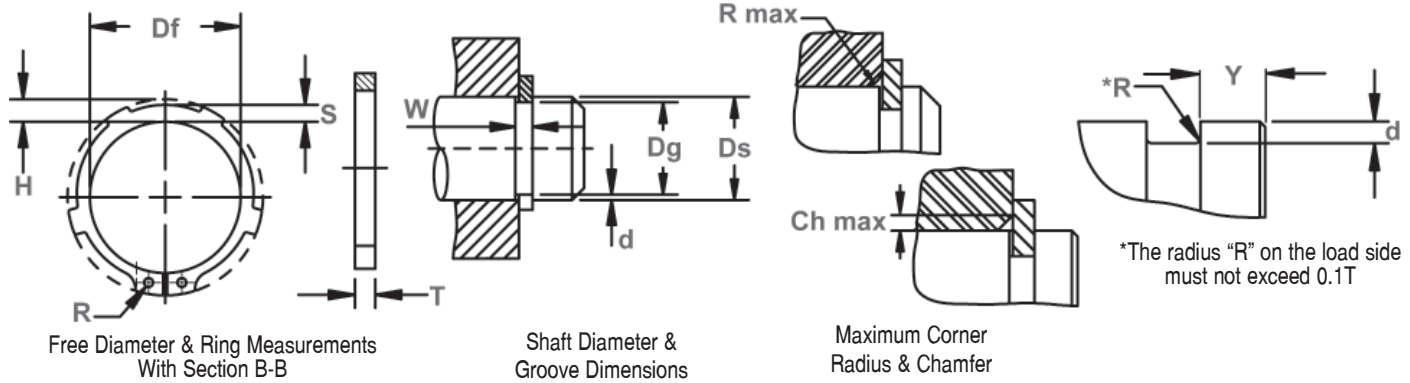


DST Shaft Rings

(DIN 983)

Axially Assembled, External Teeth, Metric

Similar in design to the DSH external ring, this features several "teeth" equally distributed along the circumference of the ring. The increased shoulder offered by the teeth is particularly effective in retaining applications with large radii or chamfers.

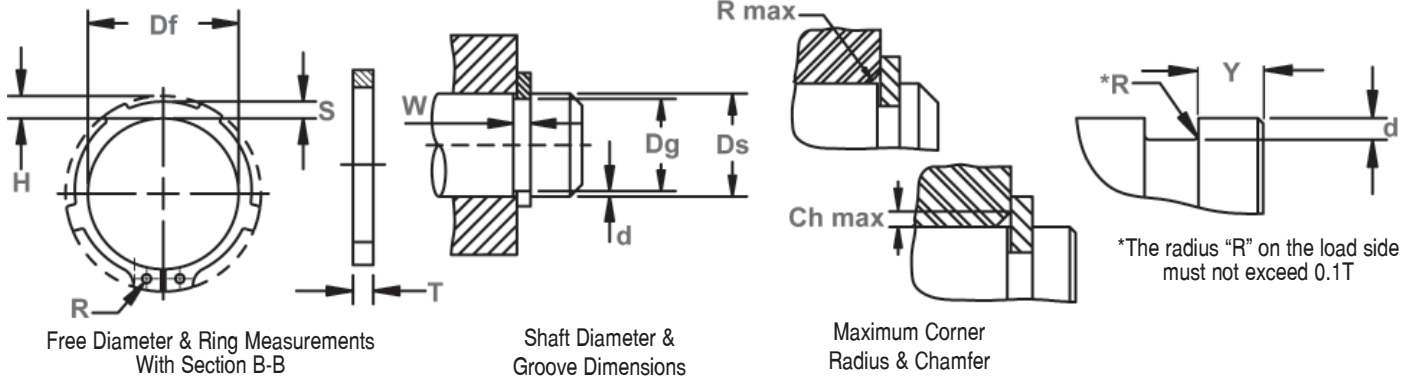


*The radius "R" on the load side must not exceed 0.1T

RING NO.	SHAFT DIA.	GROOVE SIZE				RING SIZE & WEIGHT								SUPPLEMENTARY DATA					
		DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE MARGIN	THRUST LOAD Ring	THRUST LOAD Groove	Allowable Rad/Cham.	Max. load w/ R/Ch. Max.	RPM Limits
		Ds	Dg	Tol.	W	d	T	Tol.	Df	Tol.	H Max.	S	R Min.	kg/1000	Y	Pr kN	Pg kN	R/Ch Max.	P'r kN
DST-16	16	15,2		1,10	0,40	1,00		14,7		3,5	2,3	1,7	0,82	1,2	7,4	3,26	1,0	2,4	45000
DST-17	17	16,2	-0,11	1,10	0,40	1,00		15,7	+0,10	3,6	2,4	1,7	0,93	1,2	8,0	3,46	1,0	2,4	41000
DST-18	18	17,0		1,30	0,50	1,20		16,5	-0,36	3,7	2,5	2,0	1,24	1,5	17,0	4,58	1,5	3,7	38000
DST-19	19	18,0		1,30	0,50	1,20		17,5		3,7	2,6	2,0	1,35	1,5	17,0	4,85	1,5	3,8	33000
DST-20	20	19,0		1,30	0,50	1,20		18,5		3,8	2,6	2,0	1,45	1,5	17,1	5,06	1,5	3,8	30000
DST-22	22	21,0	-0,15	1,30	0,50	1,20		20,5	+0,13	4,0	2,8	2,0	1,77	1,5	16,9	5,65	1,5	3,8	26000
DST-23	23	22,0		1,30	0,50	1,20		21,5	-0,42	4,1	2,9	2,0	1,84	1,5	16,6	5,90	1,5	3,8	24000
DST-24	24	22,9		1,30	0,55	1,20		22,2		4,2	3,0	2,0	1,98	1,6	16,1	6,75	1,5	3,6	26000
DST-25	25	23,9		1,30	0,55	1,20		23,2		4,3	3,0	2,0	2,12	1,6	16,2	7,05	1,5	3,7	24000
DST-26	26	24,9	-0,21	1,30	0,55	1,20		24,2		4,4	3,1	2,0	2,18	1,6	16,1	7,34	1,5	3,7	22000
DST-28	28	26,6		1,60	0,70	1,50	-0,06	25,9	+0,21	4,5	3,3	2,0	3,15	2,1	32,1	10,00	1,5	7,5	20000
DST-29	29	27,6		1,60	0,70	1,50		26,9	-0,42	4,7	3,4	2,0	3,35	2,1	31,8	10,30	1,5	7,4	19000
DST-30	30	28,6		1,60	0,70	1,50		27,9		4,7	3,4	2,0	3,65	2,1	32,1	10,70	1,5	7,6	18000
DST-32	32	30,3		1,60	0,85	1,50		29,6		5,0	3,6	2,5	4,00	2,5	31,2	13,80	2,0	5,5	16000
DST-34	34	32,3		1,60	0,85	1,50		31,5		5,1	3,8	2,5	4,15	2,5	31,3	14,70	2,0	5,6	16000
DST-35	35	33,0		1,60	1,00	1,50		32,2	+0,25	5,2	3,8	2,5	4,38	3,0	30,8	17,80	2,0	5,5	15000
DST-37	37	35,0		1,85	1,00	1,75		34,2	-0,50	5,4	4,0	2,5	6,30	3,0	50,0	18,80	2,0	9,1	13000
DST-38	38	36,0	-0,25	1,85	1,00	1,75		35,2		5,5	4,1	2,5	6,50	3,0	49,5	19,30	2,0	9,1	13000
DST-40	40	37,5		1,85	1,25	1,75		36,5		7,2	4,2	2,5	7,00	3,8	51,0	25,30	2,0	9,5	14000
DST-42	42	39,5		1,85	1,25	1,75		38,5	+0,39	7,2	4,5	2,5	7,50	3,8	50,0	26,70	2,0	9,4	13000
DST-45	45	42,5		1,85	1,25	1,75		41,5	-0,90	7,2	4,6	2,5	8,50	3,8	49,0	28,60	2,0	9,3	11000
DST-47	47	44,5		1,85	1,25	1,75		43,5		7,2	4,8	2,5	8,70	3,8	49,5	30,00	2,0	9,5	10000

*** FOR PLATED RINGS, ADD 0.05 TO THE LISTED MAXIMUM THICKNESS. MAXIMUM RING THICKNESS WILL BE A MINIMUM OF 0.005 LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

ALL DIMENSIONS IN MILLIMETERS.



RING NO.	SHAFT DIA.	GROOVE SIZE						RING SIZE & WEIGHT						SUPPLEMENTARY DATA						
		DIAMETER		WIDTH	DEPTH		THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE MARGIN	THRUST LOAD Ring	THRUST LOAD Groove	Allowable Rad/ Cham.	Max. load w/ R/Ch. Max.	RPM Limits
		Ds	Dg	Tol.	W	d	T	Tol.	Df	Tol.	H Max.	S	R Min.	kg/ 1000	Y	Pr kN	Pg kN	R/Ch Max.	P'r kN	
DST-48	48	45.5	-0.25	1.85	1.25	1.75	-0.06	44.5	+0.39	7.2	4.9	2.5	8.90	3.8	49.4	30.70	2.0	9.5	9000	
DST-50	50	47.0		2.15	1.50	2.00		45.8	-0.90	8.2	5.0	2.5	11.50	4.5	73.3	38.00	2.0	14.4	10000	
DST-55	55	52.0		2.15	1.50	2.00		50.8		8.2	5.4	2.5	12.99	4.5	71.4	42.00	2.5	11.4	8000	
DST-57	57	54.0		2.15	1.50	2.00		52.8		8.2	5.6	2.5	14.00	4.5	70.9	43.70	2.5	11.4	8000	
DST-58	58	55.0		2.15	1.50	2.00		53.8		8.2	5.7	2.5	14.30	4.5	71.1	44.30	2.5	11.5	8000	
DST-60	60	57.0		2.15	1.50	2.00		55.8		8.2	5.8	2.5	14.80	4.5	69.3	46.00	2.5	11.3	7000	
DST-62	62	59.0		2.15	1.50	2.00	-0.07	57.8		8.2	5.9	2.5	15.90	4.5	69.3	47.50	2.5	11.4	7000	
DST-65	65	62.0	-0.30	2.65	1.50	2.50		60.8	+0.46	10.2	6.2	3.0	21.70	4.5	135.0	49.80	2.5	22.7	6000	
DST-67	67	64.0		2.65	1.50	2.50		62.5	-1.10	10.2	6.4	3.0	22.60	4.5	136.0	51.30	2.5	23.0	7000	
DST-68	68	65.0		2.65	1.50	2.50		63.5		10.2	6.5	3.0	23.50	4.5	135.0	52.20	2.5	23.0	7000	
DST-70	70	67.0		2.65	1.50	2.50		65.5		10.2	6.6	3.0	25.10	4.5	134.0	53.80	2.5	23.0	6000	
DST-75	75	72.0		2.65	1.50	2.50		70.5		10.2	7.0	3.0	28.20	4.5	130.0	57.60	2.5	22.8	6000	
DST-80	80	76.5		2.65	1.75	2.50		74.5		10.2	7.4	3.0	30.75	5.3	128.0	71.60	3.0	19.5	6000	
DST-85	85	81.5		3.15	1.75	3.00		79.5		10.2	7.8	3.5	39.50	5.3	215.0	76.20	3.0	33.4	5000	
DST-90	90	86.5	-0.35	3.15	1.75	3.00	-0.08	84.5		10.2	8.2	3.5	47.70	5.3	217.0	80.20	3.0	33.4	5000	
DST-95	95	91.5		3.15	1.75	3.00		89.5		10.2	8.6	3.5	53.00	5.3	212.0	85.50	3.5	29.3	4000	
DST-100	100	96.5		3.15	1.75	3.00		94.5	+0.54	10.2	9.0	3.5	56.60	5.3	206.0	90.00	3.5	29.0	4000	
DST-110	110	106.0	-0.54	4.15	2.00	4.00	-0.10	103.0	-1.30	12.2	9.6	3.5	84.60	6.0	457.0	113.00	3.5	66.9	4000	
DST-120	120	116.0		4.15	2.00	4.00		113.0		14.2	10.1	3.5	89.70	6.0	424.0	123.00	3.5	64.5	4000	
DST-130	130	126.0	-0.63	4.15	2.00	4.00		123.0		14.2	10.7	4.0	105.00	6.0	395.0	134.00	4.0	55.2	3000	
DST-140	140	136.0		4.15	2.00	4.00		133.0		14.2	11.2	4.0	115.00	6.0	376.0	144.00	4.0	54.4	3000	

*** FOR PLATED RINGS, ADD 0.05 TO THE LISTED MAXIMUM THICKNESS. MAXIMUM RING THICKNESS WILL BE A MINIMUM OF 0.005 LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

ALL DIMENSIONS IN MILLIMETERS.

NUMBER OF TEETH (INCLUDING LUGS)

RING TYPE	SIZE RANGE	# TEETH
DST	16-58	6
	60-140	8

HARDNESS RANGES: CARBON STEEL RINGS (SAE 1060-1090)

RING TYPE	SIZE RANGE	HARDNESS		
		VICKERS	ROCKWELL	
			HRC	LOWER SCALE*
DST	16 & 17	470-580	47-54	66-72 HR30N
	18-48	470-580	47-54	-
	50-140	435-530	44-51	-

*WHERE APPLICABLE

HARDNESS RANGES: STAINLESS STEEL RINGS (DIN 1.4122 X39CrMo17)

RING TYPE	SIZE RANGE	HARDNESS			
		HV	HRC	15N	30N
DST	ALL	470-580	47-54	84-87.5	66-72

