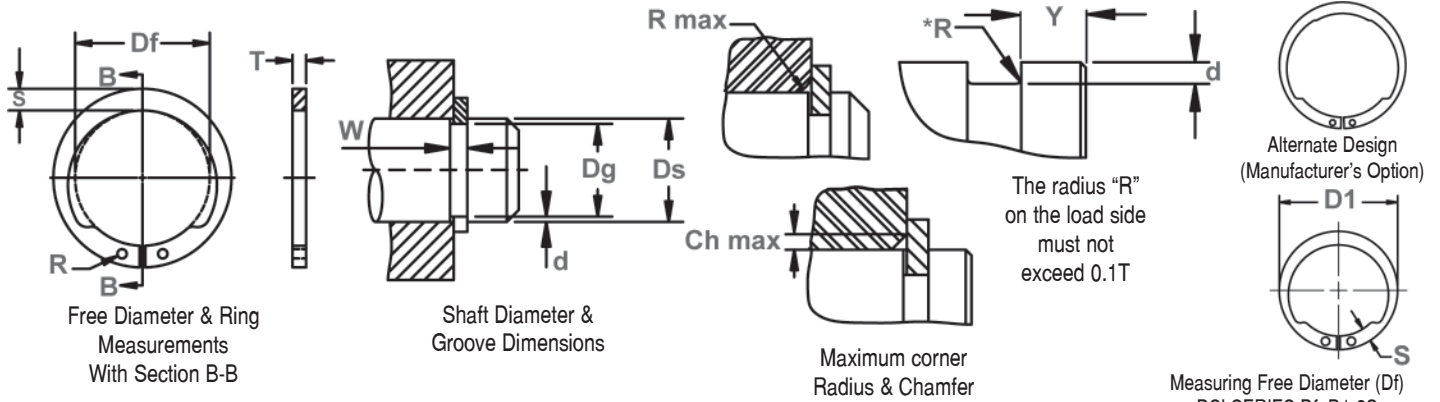


DSI Shaft Rings

Axially Assembled, External Inverted, Metric

Functions like a DSH ring in a shaft, only the lugs are "reversed."

This version reduces the distance the lugs of the standard DSH extend beyond the circumference of the shaft. The shaft can then be used in an application where clearance is minimal.



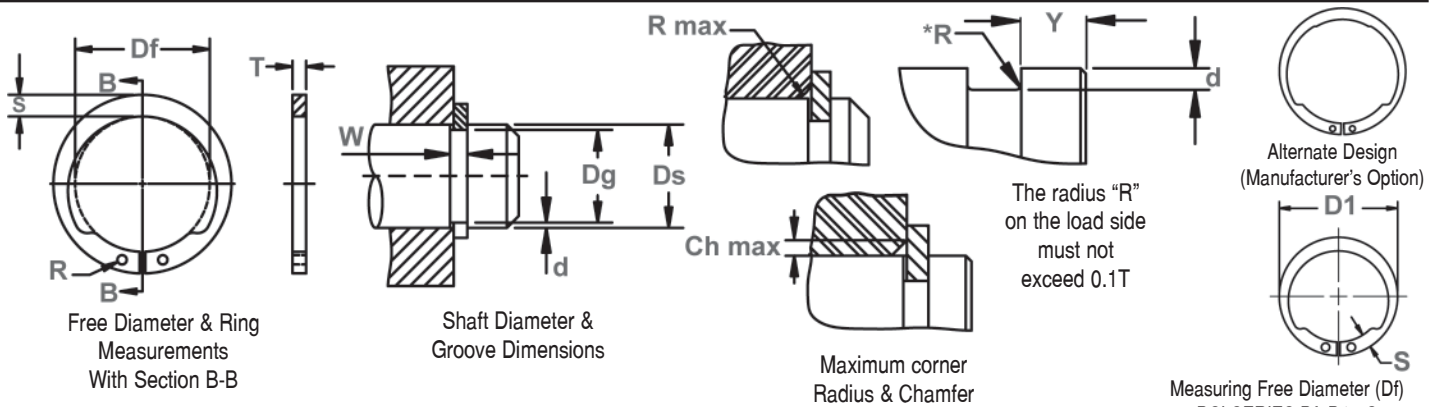
The radius "R" on the load side must not exceed 0.1T

RING NO.	SHAFT DIA.	GROOVE SIZE			RING SIZE & WEIGHT						SUPPLEMENTARY DATA								
		DIAMETER		DEPTH	THICKNESS ***		FREE DIAMETER		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.	d	T Tol.	Df Tol.	S Tol.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN					
DSI-12	12	11.5		1.10	0.25	1.00		11.00		2.1		1.3	0.50	0.7	4.5	0.70	1.0	2.4	79000
DSI-13	13	12.4		1.10	0.30	1.00		11.90		2.1		1.3	0.56	0.9	5.5	0.90	1.0	2.4	64000
DSI-14	14	13.4		1.10	0.30	1.00		12.90	+0.10	2.1		1.3	0.58	0.9	6.0	0.97	1.0	2.4	56000
DSI-15	15	14.3	-0.11	1.10	0.35	1.00		13.80	-0.36	2.2		1.3	0.66	1.0	6.5	1.22	1.0	2.4	50000
DSI-16	16	15.2		1.10	0.40	1.00		14.70		2.3		1.3	0.72	1.2	7.0	1.48	1.0	2.5	45000
DSI-17	17	16.2		1.10	0.40	1.00		15.70		2.4		1.3	0.81	1.2	8.1	1.57	1.0	2.6	41000
DSI-18	18	17.0		1.30	0.50	1.20		16.50		2.6		1.5	1.14	1.5	14.8	2.07	1.5	3.2	39000
DSI-20	20	19.0		1.30	0.50	1.20		18.50		2.8		1.5	1.43	1.5	14.6	2.30	1.5	3.1	32000
DSI-21	21	20.0	-0.15	1.30	0.50	1.20		19.35	+0.13	2.8		1.5	1.53	1.5	14.4	2.42	1.5	3.1	29000
DSI-22	22	21.0		1.30	0.50	1.20	-0.06	20.50	-0.42	3.0		1.5	1.63	1.5	14.2	2.53	1.5	3.1	27000
DSI-23	23	22.0		1.30	0.50	1.20		21.50		3.1	±0.1	1.5	1.78	1.5	14.0	2.66	1.5	3.1	25000
DSI-24	24	22.9		1.30	0.55	1.20		22.20		3.2		1.5	1.90	1.6	14.0	3.03	1.5	3.1	27000
DSI-25	25	23.9		1.30	0.55	1.20		23.20		3.4		1.5	2.10	1.6	14.1	3.18	1.5	3.2	25000
DSI-26	26	24.9	-0.21	1.30	0.55	1.20		24.20	+0.21	3.5		1.5	2.18	1.6	14.1	3.30	1.5	3.2	25000
DSI-28	28	26.6		1.60	0.70	1.50		25.90	-0.42	3.8		2.0	3.18	2.1	28.0	4.50	1.5	6.4	22000
DSI-30	30	28.6		1.60	0.70	1.50		27.90		3.9		2.0	3.58	2.1	27.5	4.86	1.5	6.3	19000
DSI-32	32	30.3		1.60	0.85	1.50		29.60		4.0		2.0	3.88	2.5	27.0	6.25	2.0	4.7	17000
DSI-34	34	32.3	-0.25	1.60	0.85	1.50		31.50	+0.25	3.5		2.0	3.60	2.5	26.6	6.67	2.0	4.6	15000
DSI-35	35	33.0		1.60	1.00	1.50		32.20	-0.50	4.2		2.0	4.53	3.0	26.6	8.00	2.0	4.6	16000
DSI-38	38	35.8		1.85	1.10	1.75		34.50		4.5		2.0	5.50	3.3	42.0	10.60	2.0	7.8	15000

*** 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		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 Min.	d	T	Tol.	Df	Tol.	S	Tol.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN		
DSI-40	40	37.5		1.85	1.25	1.75		36.50		4.7		2.0	6.49	3.8	42.0	12.60	2.0	7.8	15000		
DSI-42	42	39.5		1.85	1.25	1.75		38.50		4.7		2.0	6.51	3.8	42.0	13.30	2.0	7.8	13000		
DSI-45	45	42.5	-0,25	1.85	1.25	1.75	-0,06	41.50	+0,39	4.7		2.0	7.80	3.8	41,5	14,30	2.0	7.8	11000		
DSI-47	47	44.5		1.85	1.25	1.75		43.50	-0,90	5.0		2.0	8.09	3.8	41,0	15,00	2.0	7.8	10000		
DSI-48	48	45.5		1.85	1.25	1.75		44.50		5.2	±0,2	2.0	8.48	3.8	41,0	15,80	2.0	7.8	10000		
DSI-50	50	47.0		2.15	1.50	2.00		45.80		5.2		2.5	9.84	4.5	58,0	19,20	2.0	11,6	10000		
DSI-55	55	52.0		2.15	1.50	2.00		50.80		5.8		2.5	11.42	4.5	58,0	21,00	2.5	9,3	9000		
DSI-58	58	55.0		2.15	1.50	2.00		53.80		5.8		2.5	13.00	4.5	56,0	22,20	2.5	9,2	8000		
DSI-60	60	57.0		2.15	1.50	2.00		55.80		5.8		2.5	13.80	4.5	55,5	23,00	2.5	9,1	7000		
DSI-65	65	62.0	-0,30	2.65	1.50	2.50	-0,07	60.80		6.0		2.5	20.75	4.5	104,0	24,80	2.5	17,6	6000		
DSI-70	70	67.0		2.65	1.50	2.50		65.50	+0,46	6.5		2.5	23.70	4.5	103,0	27,00	2.5	17,6	6000		
DSI-72	72	69.0		2.65	1.50	2.50		67.50	-1,10	6.5		2.5	24.70	4.5	104,0	27,70	2.5	18,0	6000		
DSI-75	75	72.0		2.65	1.50	2.50		70.50		6.5		2.5	27.50	4.5	100,0	29,20	2.5	17,7	5000		
DSI-80	80	76.5		2.65	1.75	2.50		74.50		7.0		2.5	28.90	5.3	96,0	36,60	3.0	14,6	6000		
DSI-82	82	78.5		2.65	1.75	2.50		76.50		7.0	±0,3	2.5	29.65	5.3	100,0	37,40	3.0	15,4	5000		
DSI-85	85	81.5		3.15	1.75	3.00		79.50		7.4		3.0	39.50	5.3	167,0	38,30	3.0	25,6	5000		
DSI-87	87	83.5	-0,35	3.15	1.75	3.00		81.50		7.4		3.0	40.00	5.3	164,0	39,20	3.0	25,5	5000		
DSI-90	90	86.5		3.15	1.75	3.00	-0,08	84.50	+0,54	7.4		3.0	41.92	5.3	157,0	41,70	3.0	24,8	4000		
DSI-95	95	91.5		3.15	1.75	3.00		89.50	-1,30	8.0		3.0	47.70	5.3	152,0	42,70	3.5	21,0	4000		
DSI-100	100	96.5		3.15	1.75	3.00		94.50		8.0		3.0	49.92	5.3	144,0	45,80	3.5	20,5	4000		

*** 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.

HARDNESS RANGES: STAINLESS STEEL RINGS (DIN 1.4122 X39CrMo17)

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

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

RING TYPE	SIZE RANGE	HARDNESS		
		VICKERS	ROCKWELL	
			HRC	LOWER SCALE*
DSI	12-17	470-580	47-54	66-72 HR30N
	18-48	470-580	47-54	-
	50-100	435-530	44-51	-

*WHERE APPLICABLE

