

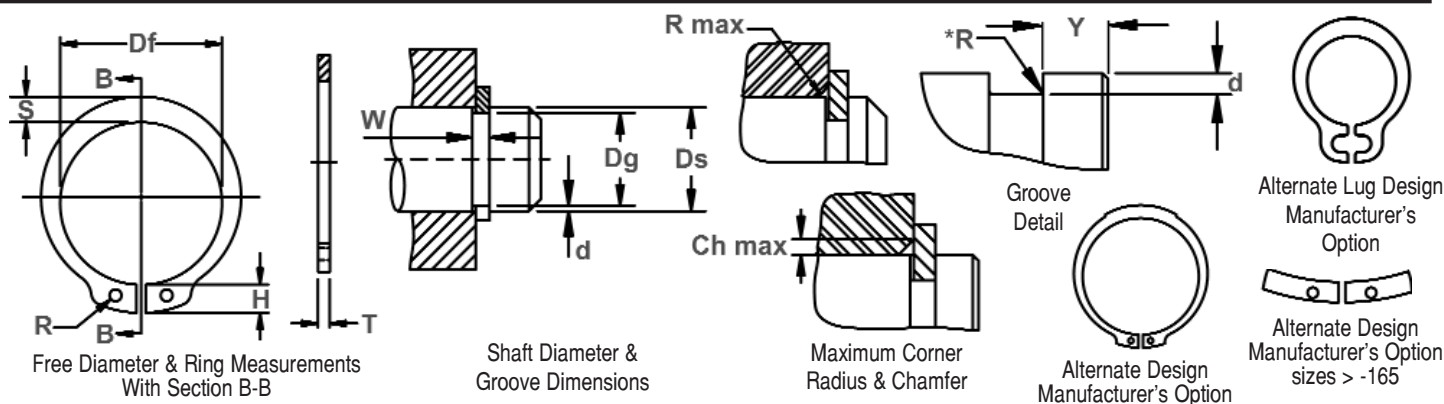


DSH Shaft Rings

(DIN 471)

Axially Assembled, External, Metric

Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a "shoulder") holds an assembly in place.



RING NO.	SHAFT DIA. (mm)	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	Allow-able Rad/Cham.	Max. Load w/Ch Max.	RPM Limits	
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/ 1000	Y Min.	Pr kN	Pg kN	R/Ch Max.		P'r kN
DSH-3	3	2,8	-0,04	0,50	0,10	0,40	-0,05	2,7	+0,04	1,9	0,8	1,0	0,017	0,3	0,47	0,1	0,5	0,27	360000	
DSH-4	4	3,8		0,50	0,10	0,40		3,7		2,2	0,9	1,0	0,022	0,3	0,50	0,2	0,5	0,30	211000	
DSH-5	5	4,8		0,70	0,10	0,60		4,7		2,5	1,1	1,0	0,066	0,3	1,00	0,2	0,5	0,80	154000	
DSH-6	6	5,7	-0,06	0,80	0,15	0,70	-0,06	5,6	+0,06	2,7	1,3	1,2	0,084	0,5	1,45	0,4	0,5	0,90	114000	
DSH-7	7	6,7		0,90	0,15	0,80		6,5		3,1	1,4	1,2	0,121	0,5	2,60	0,5	0,5	1,40	121000	
DSH-8	8	7,6		0,90	0,20	0,80		7,4		3,2	1,5	1,2	0,158	0,6	3,00	0,8	0,5	2,00	96000	
DSH-9	9	8,6	-0,11	1,10	0,20	1,00	-0,06	8,4	+0,10	3,3	1,7	1,2	0,300	0,6	3,50	0,9	0,5	2,40	85000	
DSH-10	10	9,6		1,10	0,20	1,00		9,3		3,3	1,8	1,5	0,340	0,6	4,00	1,0	1,0	2,40	84000	
DSH-11	11	10,5		1,10	0,25	1,00		10,2		3,3	1,8	1,5	0,410	0,8	4,50	1,4	1,0	2,40	70000	
DSH-12	12	11,5	-0,11	1,10	0,25	1,00	-0,06	11,0	+0,13	3,3	1,8	1,7	0,500	0,8	5,00	1,5	1,0	2,40	75000	
DSH-13	13	12,4		1,10	0,30	1,00		11,9		3,4	2,0	1,7	0,530	0,9	5,80	2,0	1,0	2,40	66000	
DSH-14	14	13,4		1,10	0,30	1,00		12,9		3,5	2,1	1,7	0,640	0,9	6,40	2,1	1,0	2,40	58000	
DSH-15	15	14,3	-0,13	1,10	0,35	1,00	-0,06	13,8	+0,13	3,6	2,2	1,7	0,670	1,1	6,90	2,6	1,0	2,40	50000	
DSH-16	16	15,2		1,10	0,40	1,00		14,7		3,7	2,2	1,7	0,700	1,2	7,40	3,2	1,0	2,40	45000	
DSH-17	17	16,2		1,10	0,40	1,00		15,7		3,8	2,3	1,7	0,820	1,2	8,00	3,4	1,0	2,40	41000	
DSH-18	18	17,0	-0,15	1,30	0,50	1,20	-0,06	16,5	+0,21	3,9	2,4	2,0	1,110	1,5	17,00	4,5	1,5	3,75	39000	
DSH-19	19	18,0		1,30	0,50	1,20		17,5		3,9	2,5	2,0	1,220	1,5	17,00	4,8	1,5	3,80	35000	
DSH-20	20	19,0		1,30	0,50	1,20		18,5		4,0	2,6	2,0	1,300	1,5	17,10	5,0	1,5	3,85	32000	
DSH-21	21	20,0	-0,15	1,30	0,50	1,20	-0,06	19,5	+0,21	4,1	2,7	2,0	1,420	1,5	16,80	5,3	1,5	3,75	29000	
DSH-22	22	21,0		1,30	0,50	1,20		20,5		4,2	2,8	2,0	1,500	1,5	16,90	5,6	1,5	3,80	27000	
DSH-23	23	22,0		1,30	0,50	1,20		21,5		4,3	2,9	2,0	1,630	1,5	16,60	5,9	1,5	3,80	25000	
DSH-24	24	22,9	-0,21	1,30	0,55	1,20	-0,06	22,2	+0,21	4,4	3,0	2,0	1,770	1,7	16,10	6,7	1,5	3,65	27000	
DSH-25	25	23,9		1,30	0,55	1,20		23,2		4,4	3,0	2,0	1,900	1,7	16,20	7,0	1,5	3,70	25000	
DSH-26	26	24,9		1,30	0,55	1,20		24,2		4,5	3,1	2,0	1,960	1,7	16,10	7,3	1,5	3,70	24000	
DSH-27	27	25,6	-0,25	1,30	0,70	1,20	-0,06	24,9	+0,25	4,6	3,1	2,0	2,080	2,1	16,40	9,6	1,5	3,80	22500	
DSH-28	28	26,6		1,60	0,70	1,50		25,9		4,7	3,2	2,0	2,920	2,1	32,10	10,0	1,5	7,50	21200	
DSH-29	29	27,6		1,60	0,70	1,50		26,9		4,8	3,4	2,0	3,200	2,1	31,80	10,3	1,5	7,45	20000	
DSH-30	30	28,6	-0,25	1,60	0,70	1,50	-0,06	27,9	+0,25	5,0	3,5	2,0	3,320	2,1	32,10	10,7	1,5	7,65	18900	
DSH-31	31	29,3		1,60	0,85	1,50		28,6		5,1	3,5	2,5	3,450	2,6	31,50	13,4	2,0	5,60	17900	
DSH-32	32	30,3		1,60	0,85	1,50		29,6		5,2	3,6	2,5	3,540	2,6	31,20	13,8	2,0	5,55	16900	
DSH-33	33	31,3	-0,25	1,60	0,85	1,50	-0,06	30,5	+0,25	5,2	3,7	2,5	3,690	2,6	31,60	14,3	2,0	5,65	17400	
DSH-34	34	32,3		1,60	0,85	1,50		31,5		5,4	3,8	2,5	3,800	2,6	31,30	14,7	2,0	5,60	16100	
DSH-35	35	33,0		1,60	1,00	1,50		32,2		5,6	3,9	2,5	4,000	3,0	30,80	17,8	2,0	5,55	15500	

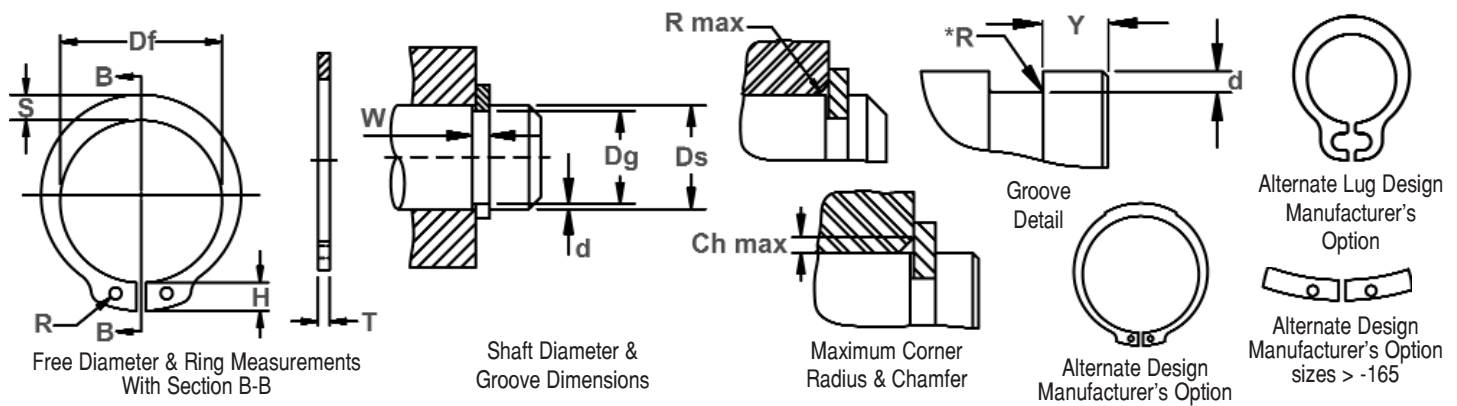
ALL DIMENSIONS IN MILLIMETERS.

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

*** 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.

FOR HARDNESS SPECIFICATIONS, SEE END OF SECTION.



RING NO.	SHAFT DIA. (mm)	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	Allow-able Rad/Cham.	Max. Load W/Ch Max.	RPM Limits	
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN	
DSH-36	36	34.0	-0.25	1.85	1.00	1.75	-0.06	33.2	+0.25	5.6	4.0	2.5	5,000	3.0	49.40	18.3	2.0	9.00	14500	
DSH-37	37	35.0		1.85	1.00	1.75		34.2		5.7	4.1	2.5	5,370	3.0	50.00	18.8	2.0	9.15	14100	
DSH-38	38	36.0		1.85	1.00	1.75		35.2	-0.50	5.8	4.2	2.5	5,620	3.0	49.50	19.3	2.0	9.10	13600	
DSH-39	39	37.0		1.85	1.00	1.75		36.0		5.9	4.3	2.5	5,850	3.0	49.80	19.9	2.0	9.25	14500	
DSH-40	40	37.5		1.85	1.25	1.75		36.5	+0.39 -0.90	6.0	4.4	2.5	6,030	3.8	51.00	25.3	2.0	9.50	14300	
DSH-41	41	38.5		1.85	1.25	1.75		37.5		6.2	4.5	2.5	6,215	3.8	50.10	26.0	2.0	9.40	13500	
DSH-42	42	39.5		1.85	1.25	1.75		38.5		6.5	4.5	2.5	6,500	3.8	50.00	26.7	2.0	9.45	13000	
DSH-44	44	41.5		1.85	1.25	1.75		40.5		6.6	4.6	2.5	7,000	3.8	48.50	28.0	2.0	9.20	11800	
DSH-45	45	42.5		1.85	1.25	1.75		41.5		6.7	4.7	2.5	7,500	3.8	49.0	28.6	2.0	9.35	11400	
DSH-46	46	43.5		1.85	1.25	1.75		42.5		6.7	4.8	2.5	7,600	3.8	48.9	29.4	2.0	9.40	10900	
DSH-47	47	44.5	1.85	1.25	1.75	43.5	6.8	4.9		2.5	7,500	3.8	49.5	30.0	2.0	9.55	11000			
DSH-48	48	45.5	1.85	1.25	1.75	44.5	6.9	5.0		2.5	7,900	3.8	49.4	30.7	2.0	9.55	10000			
DSH-50	50	47.0	2.15	1.50	2.00	45.8	6.9	5.1		2.5	10,20	4.5	73.3	38.0	2.0	14.40	11000			
DSH-52	52	49.0	2.15	1.50	2.00	47.8	7.0	5.2		2.5	11,10	4.5	73.1	39.7	2.5	11.50	10000			
DSH-54	54	51.0	2.15	1.50	2.00	49.8	7.1	5.3	2.5	11,30	4.5	71.2	41.2	2.5	11.30	9000				
DSH-55	55	52.0	2.15	1.50	2.00	50.8	7.2	5.4	2.5	11,40	4.5	71.4	42.0	2.5	11.40	9000				
DSH-56	56	53.0	2.15	1.50	2.00	51.8	7.3	5.5	2.5	11,80	4.5	70.8	42.8	2.5	11.30	9000				
DSH-57	57	54.0	2.15	1.50	2.00	52.8	7.3	5.5	2.5	12,20	4.5	70.9	43.7	2.5	11.40	8000				
DSH-58	58	55.0	2.15	1.50	2.00	53.8	7.3	5.6	2.5	12,60	4.5	71.1	44.3	2.5	11.50	8000				
DSH-60	60	57.0	2.15	1.50	2.00	55.8	7.4	5.8	2.5	12,90	4.5	69.2	46.0	2.5	11.30	8000				
DSH-62	62	59.0	2.15	1.50	2.00	57.8	7.5	6.0	2.5	14,30	4.5	69.3	47.5	2.5	11.40	7000				
DSH-63	63	60.0	2.15	1.50	2.00	58.8	7.6	6.2	2.5	15,90	4.5	70.2	48.3	2.5	11.60	7000				
DSH-65	65	62.0	2.65	1.50	2.50	60.8	7.8	6.3	3.0	18,20	4.5	135.0	49.8	2.5	22.70	7000				
DSH-67	67	64.0	2.65	1.50	2.50	62.5	7.9	6.4	3.0	20,30	4.5	136.0	51.3	2.5	23.00	7000				
DSH-68	68	65.0	2.65	1.50	2.50	63.5	+0.46 -1.10	8.0	6.5	3.0	21,80	4.5	135.0	52.2	2.5	23.10	7000			
DSH-70	70	67.0	2.65	1.50	2.50	65.5		8.1	6.6	3.0	22,00	4.5	134.0	53.8	2.5	23.00	7000			
DSH-72	72	69.0	2.65	1.50	2.50	67.5		8.2	6.8	3.0	22,50	4.5	131.0	55.3	2.5	22.80	6000			
DSH-75	75	72.0	2.65	1.50	2.50	70.5		8.4	7.0	3.0	24,60	4.5	130.0	57.6	2.5	22.80	6000			
DSH-77	77	74.0	2.65	1.50	2.50	72.5		8.5	7.2	3.0	25,70	4.5	131.0	59.3	3.0	19.70	6000			
DSH-78	78	75.0	2.65	1.50	2.50	73.5		8.6	7.3	3.0	26,20	4.5	131.0	60.0	3.0	19.70	5000			
DSH-80	80	76.5	2.65	1.75	2.50	74.5		8.6	7.4	3.0	27,30	5.3	128.0	71.6	3.0	19.50	6000			
DSH-82	82	78.5	2.65	1.75	2.50	76.5		8.7	8.7	3.0	31,20	5.3	128.0	73.5	3.0	19.60	6000			
DSH-85	85	81.5	-0.35	3.15	1.75	3.00		-0.08	79.5		8.7	7.8	3.5	36,40	5.3	215.0	76.2	3.0	33.40	6000

ALL DIMENSIONS IN MILLIMETERS.

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*** 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.

FOR HARDNESS SPECIFICATIONS, SEE END OF SECTION.

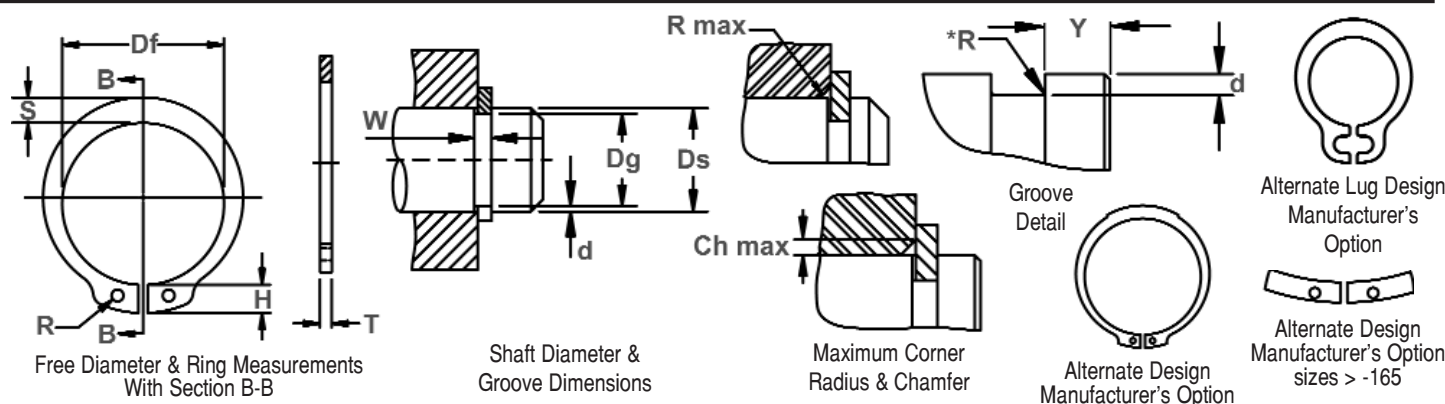


DSH Shaft Rings

(DIN 471)

Axially Assembled, External, Metric

Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a "shoulder") holds an assembly in place.



RING NO.	SHAFT DIA. (mm)	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	Allow-able Rad/ Cham.	Max. Load w/Ch Max.	RPM Limits	
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/ 1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN	
DSH-87	87	83,5	-0,35	3,15	1,75	3,00	-0,08	81,5	+0,54 -1,30	8,8	7,9	3,5	39,80	5,3	222,0	78,2	3,0	34,80	5000	
DSH-88	88	84,5		3,15	1,75	3,00		82,5		8,8	8,0	3,5	41,20	5,3	221,0	79,0	3,0	34,80	5000	
DSH-90	90	86,5		3,15	1,75	3,00		84,5		8,8	8,2	3,5	44,50	5,3	217,0	80,0	3,0	34,40	5000	
DSH-92	92	88,5		3,15	1,75	3,00		86,5		9,0	8,4	3,5	46,00	5,3	217,0	82,0	3,5	29,60	5000	
DSH-95	95	91,5		3,15	1,75	3,00		89,5		9,4	8,6	3,5	49,00	5,3	212,0	85,0	3,5	29,20	5000	
DSH-97	97	93,5	-0,35	3,15	1,75	3,00	-0,08	91,5	+0,54 -1,30	9,4	8,8	3,5	50,20	5,3	211,0	87,0	3,5	29,40	4000	
DSH-97	98	94,5		3,15	1,75	3,00		91,5		9,4	8,8	3,5	50,20	5,3	208,0	88,0	3,5	29,00	4000	
DSH-100	100	96,5		3,15	1,75	3,00		94,5		9,6	9,0	3,5	53,70	5,3	206,0	90,0	3,5	29,00	4000	
DSH-102	102	98,0		4,15	2,00	4,00		95,0		9,7	9,2	3,5	78,00	6,0	482,0	104,0	3,5	68,50	5000	
DSH-105	105	101,0		4,15	2,00	4,00		98,0		9,9	9,9	3,5	80,00	6,0	471,0	107,0	3,5	67,70	5000	
DSH-107	107	103,0	-0,54	4,15	2,00	4,00	-0,10	100,0	+0,63 -1,50	10,0	9,5	3,5	81,00	6,0	465,0	110,0	3,5	67,30	5000	
DSH-107	108	104,0		4,15	2,00	4,00		100,0		10,0	9,5	3,5	81,00	6,0	459,0	111,0	3,5	66,30	4000	
DSH-110	110	106,0		4,15	2,00	4,00		103,0		10,1	9,6	3,5	82,00	6,0	457,0	113,0	3,5	66,90	4000	
DSH-112	112	108,0		4,15	2,00	4,00		105,0		10,3	9,7	3,5	83,00	6,0	451,0	115,0	3,5	66,60	4000	
DSH-115	115	111,0		4,15	2,00	4,00		108,0		10,6	9,8	3,5	84,00	6,0	438,0	118,0	3,5	65,50	4000	
DSH-117	117	113,0	-0,54	4,15	2,00	4,00	-0,10	110,0	+0,63 -1,50	10,8	10,0	3,5	85,00	6,0	437,0	120,0	3,5	65,60	4000	
DSH-117	118	114,0		4,15	2,00	4,00		110,0		10,8	10,0	3,5	85,00	6,0	430,0	121,0	3,5	64,80	4000	
DSH-120	120	116,0		4,15	2,00	4,00		113,0		11,0	10,2	3,5	86,00	6,0	424,0	123,0	3,5	64,50	4000	
DSH-122	122	118,0		4,15	2,00	4,00		115,0		11,2	10,3	4,0	88,00	6,0	418,0	125,0	4,0	56,60	4000	
DSH-125	125	121,0		4,15	2,00	4,00		118,0		11,4	10,4	4,0	90,00	6,0	411,0	128,0	4,0	56,50	3000	
DSH-127	127	123,0	-0,63	4,15	2,00	4,00	-0,10	120,0	+0,63 -1,50	11,4	10,5	4,0	95,00	6,0	407,0	130,0	4,0	56,10	3000	
DSH-127	128	124,0		4,15	2,00	4,00		120,0		11,4	10,5	4,0	95,00	6,0	401,0	131,0	4,0	55,60	3000	
DSH-130	130	126,0		4,15	2,00	4,00		123,0		11,6	10,7	4,0	100,0	6,0	395,0	134,0	4,0	55,20	3000	
DSH-132	132	128,0		4,15	2,00	4,00		125,0		11,7	10,8	4,0	103,0	6,0	396,0	136,0	4,0	55,60	3000	
DSH-135	135	131,0		4,15	2,00	4,00		128,0		11,8	11,0	4,0	104,0	6,0	389,0	139,0	4,0	55,40	3000	
DSH-137	137	133,0	-0,63	4,15	2,00	4,00	-0,10	130,0	+0,63 -1,50	11,9	11,0	4,0	107,0	6,0	380,0	141,0	4,0	54,40	3000	
DSH-137	138	134,0		4,15	2,00	4,00		130,0		11,9	11,0	4,0	107,0	6,0	381,0	142,0	4,0	54,70	3000	
DSH-140	140	136,0		4,15	2,00	4,00		133,0		12,0	11,2	4,0	110,0	6,0	376,0	144,0	4,0	54,40	3000	
DSH-142	142	138,0		4,15	2,00	4,00		135,0		12,1	11,3	4,0	112,0	6,0	370,0	146,0	4,0	54,00	3000	
DSH-145	145	141,0		4,15	2,00	4,00		138,0		12,2	11,5	4,0	115,0	6,0	367,0	149,0	4,0	53,80	3000	
DSH-147	147	143,0	-0,63	4,15	2,00	4,00	-0,10	140,0	+0,63 -1,50	12,3	11,6	4,0	116,0	6,0	361,0	151,0	4,0	53,50	3000	
DSH-147	148	144,0		4,15	2,00	4,00		140,0		12,3	11,6	4,0	116,0	6,0	357,0	152,0	4,0	53,00	2000	
DSH-150	150	145,0		4,15	2,50	4,00		142,0		13,0	11,8	4,0	120,0	7,5	357,0	193,0	4,0	53,40	2000	

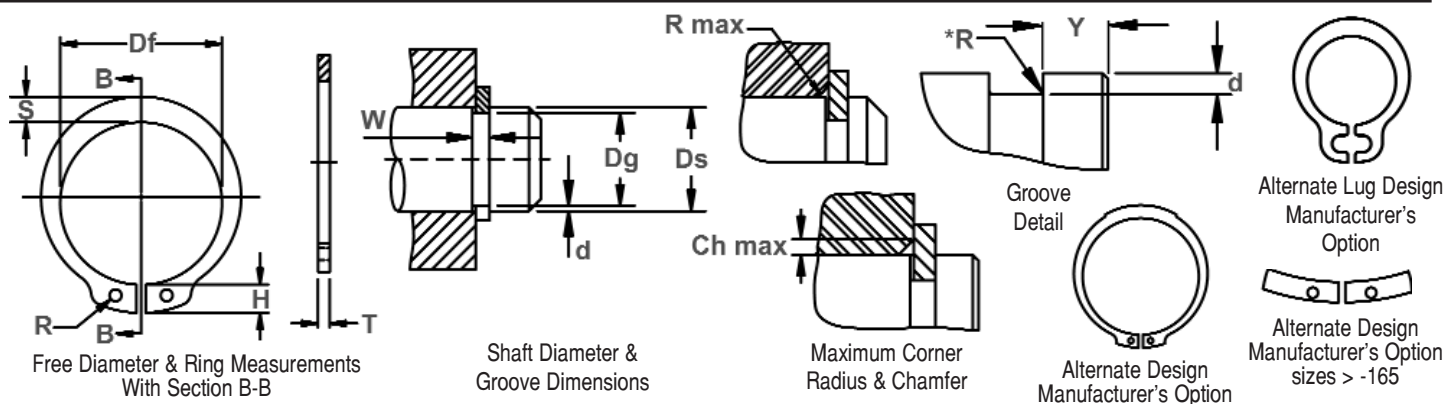
ALL DIMENSIONS IN MILLIMETERS.

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

*** 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.

FOR HARDNESS SPECIFICATIONS, SEE END OF SECTION.



RING NO.	SHAFT DIA. (mm)	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	Allow-able Rad/ Cham.	Max. Load w/Ch Max.	RPM Limits
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/ 1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	
DSH-152	152	147.0	-0.63	4,15	2,50	4,00	-0,10	143,0	+0,63 -1,50	13,0	11,9	4,0	128,0	7,5	356,0	195,0	4,0	53,10	3000
DSH-155	155	150,0		4,15	2,50	4,00		146,0		13,0	12,0	4,0	135,0	7,5	352,0	199,0	4,0	52,60	3000
DSH-157	157	152,0		4,15	2,50	4,00		148,0		13,1	12,0	4,0	140,0	7,5	352,0	202,0	4,0	52,50	3000
DSH-157	158	153,0		4,15	2,50	4,00		148,0		13,1	12,0	4,0	140,0	7,5	353,0	203,0	4,0	52,70	3000
DSH-160	160	155,0		4,15	2,50	4,00		151,0		13,3	12,2	4,0	150,0	7,5	349,0	206,0	4,0	52,20	3000
DSH-162	162	157,0		4,15	2,50	4,00		152,5		13,3	12,3	4,0	155,0	7,5	348,0	208,0	5,0	41,70	3000
DSH-165	165	160,0		4,15	2,50	4,00		155,5		13,5	12,5	4,0	160,0	7,5	345,0	212,0	5,0	41,40	3000
DSH-167	167	162,0		4,15	2,50	4,00		157,5		13,5	12,9	4,0	163,0	7,5	354,0	215,0	5,0	42,50	3000
DSH-167	168	163,0		4,15	2,50	4,00		157,5		13,5	12,9	4,0	163,0	7,5	353,0	216,0	5,0	42,40	2000
DSH-170	170	165,0		4,15	2,50	4,00		160,5		13,5	12,9	4,0	170,0	7,5	349,0	219,0	5,0	41,90	2000
DSH-170	172	167,0		4,15	2,50	4,00		160,5		13,5	12,9	4,0	170,0	7,5	344,0	221,0	5,0	41,30	2000
DSH-175	175	170,0		4,15	2,50	4,00		165,5		13,5	12,9	4,0	180,0	7,5	340,0	225,0	5,0	40,70	2000
DSH-177	177	172,0		4,15	2,50	4,00		167,5		14,2	13,5	4,0	183,0	7,5	335,0	228,0	5,0	40,20	2000
DSH-177	178	173,0		4,15	2,50	4,00		167,5		14,2	13,5	4,0	183,0	7,5	349,0	229,0	5,0	42,00	2000
DSH-180	180	175,0		4,15	2,50	4,00		170,5		14,2	13,5	4,0	190,0	7,5	345,0	232,0	5,0	41,40	2000
DSH-180	182	177,0		4,15	2,50	4,00		170,5		14,2	13,5	4,0	190,0	7,5	341,0	235,0	5,0	41,00	2000
DSH-185	185	180,0	4,15	2,50	4,00	175,5	14,2	13,5	4,0	200,0	7,5	336,0	238,0	5,0	40,40	2000			
DSH-187	187	182,0	4,15	2,50	4,00	177,5	14,2	14,0	4,0	203,0	7,5	338,0	241,0	5,0	40,50	2000			
DSH-187	188	183,0	4,15	2,50	4,00	177,5	14,2	14,0	4,0	203,0	7,5	337,0	242,0	5,0	40,60	2000			
DSH-190	190	185,0	4,15	2,50	4,00	180,5	14,2	14,0	4,0	210,0	7,5	333,0	245,0	5,0	40,00	2000			
DSH-190	192	187,0	4,15	2,50	4,00	180,5	14,2	14,0	4,0	210,0	7,5	330,0	248,0	5,0	39,60	2000			
DSH-195	195	190,0	4,15	2,50	4,00	185,5	14,2	14,0	4,0	220,0	7,5	325,0	251,0	5,0	39,00	2000			
DSH-197	197	192,0	4,15	2,50	4,00	187,5	14,2	14,0	4,0	223,0	7,5	322,0	254,0	5,0	38,60	2000			
DSH-197	198	193,0	4,15	2,50	4,00	187,5	14,2	14,0	4,0	223,0	7,5	322,0	255,0	5,0	38,70	2000			
DSH-200	200	195,0	4,15	2,50	4,00	190,5	14,2	14,0	4,0	230,0	7,5	319,0	258,0	5,0	38,30	2000			
DSH-202	202	196,0	-0,72	5,15	3,00	5,00	-0,12	190,0	-1,70	14,2	14,0	4,0	235,0	9,0	624,0	312,0	6,0	62,50	2000
DSH-205	205	199,0		5,15	3,00	5,00		193,0		14,2	14,0	4,0	243,0	9,0	611,0	317,0	6,0	61,30	2000
DSH-205	207	201,0		5,15	3,00	5,00		193,0		14,2	14,0	4,0	243,0	9,0	608,0	320,0	6,0	60,90	2000
DSH-205	208	202,0		5,15	3,00	5,00		193,0		14,2	14,0	4,0	243,0	9,0	605,0	321,0	6,0	60,50	2000
DSH-210	210	204,0		5,15	3,00	5,00		198,0		14,2	14,0	4,0	248,0	9,0	598,0	325,0	6,0	59,90	2000
DSH-210	212	206,0		5,15	3,00	5,00		198,0		14,2	14,0	4,0	248,0	9,0	593,0	328,0	6,0	59,50	2000
DSH-215	215	209,0		5,15	3,00	5,00		203,0		14,2	14,0	4,0	260,0	9,0	585,0	332,0	6,0	58,50	2000
DSH-215	217	211,0		5,15	3,00	5,00		203,0		14,2	14,0	4,0	260,0	9,0	580,0	336,0	6,0	58,10	2000
DSH-215	218	212,0	5,15	3,00	5,00	203,0	14,2	14,0	4,0	260,0	9,0	577,0	337,0	6,0	57,80	2000			

ALL DIMENSIONS IN MILLIMETERS.

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

*** 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.
FOR HARDNESS SPECIFICATIONS, SEE END OF SECTION.

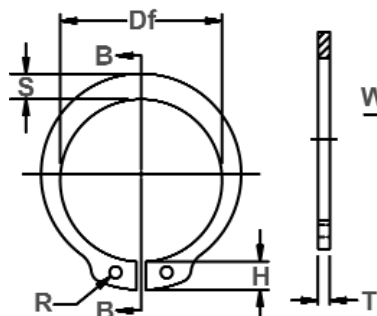


DSH Shaft Rings

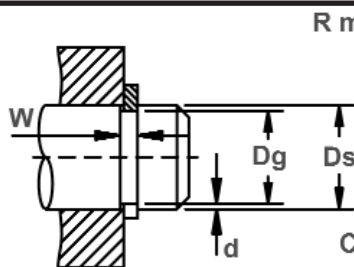
(DIN 471)

Axially Assembled, External, Metric

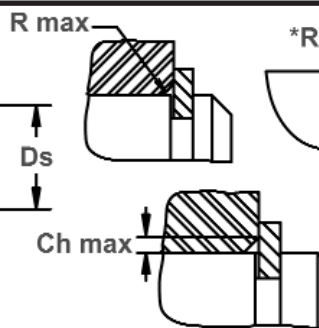
Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a "shoulder") holds an assembly in place.



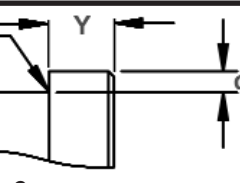
Free Diameter & Ring Measurements
With Section B-B



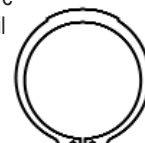
Shaft Diameter &
Groove Dimensions



Maximum Corner
Radius & Chamfer



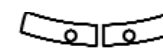
Groove
Detail



Alternate Design
Manufacturer's Option



Alternate Lug Design
Manufacturer's
Option



Alternate Design
Manufacturer's Option
sizes > -165

RING NO.	SHAFT DIA. (mm)	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	Allow-able Rad/ Cham.	Max. Load w/Ch Max.	RPM Limits	
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/ 1000	Y Min.	Pr kN	Pg kN	R/Ch Max.		P'r kN
DSH-220	220	214.0	-0,72	5,15	3,00	5,00	-0,12	208,0	+0,72	14,2	14,0	4,0	265,0	9,0	572,0	340,0	6,0	57,30	2000	
DSH-220	222	216,0		5,15	3,00	5,00		208,0		14,2	14,0	4,0	265,0	9,0	567,0	343,0	6,0	56,80	2000	
DSH-225	225	219,0		5,15	3,00	5,00		213,0		14,2	14,0	4,0	280,0	9,0	559,0	349,0	6,0	56,00	2000	
DSH-225	227	221,0		5,15	3,00	5,00		213,0		14,2	14,0	4,0	280,0	9,0	555,0	351,0	6,0	55,50	1000	
DSH-225	228	222,0		5,15	3,00	5,00		213,0		14,2	14,0	4,0	280,0	9,0	552,0	353,0	6,0	55,40	1000	
DSH-230	230	224,0		5,15	3,00	5,00		218,0		14,2	14,0	4,0	290,0	9,0	548,0	356,0	6,0	55,00	1000	
DSH-230	232	226,0		5,15	3,00	5,00		218,0		14,2	14,0	4,0	290,0	9,0	543,0	359,0	6,0	54,50	1000	
DSH-235	235	229,0		5,15	3,00	5,00		223,0		14,2	14,0	4,0	305,0	9,0	537,0	364,0	6,0	53,80	1000	
DSH-235	237	231,0		5,15	3,00	5,00		223,0		-1,70	14,2	14,0	4,0	305,0	9,0	532,0	367,0	6,0	53,40	1000
DSH-235	238	232,0		5,15	3,00	5,00		223,0			14,2	14,0	4,0	305,0	9,0	530,0	369,0	6,0	53,00	1000
DSH-240	240	234,0	5,15	3,00	5,00	228,0	14,2	14,0	4,0		310,0	9,0	530,0	372,0	6,0	53,00	1000			
DSH-240	242	236,0	5,15	3,00	5,00	228,0	14,2	14,0	4,0		310,0	9,0	520,0	375,0	6,0	52,20	1000			
DSH-245	245	239,0	5,15	3,00	5,00	233,0	14,2	14,0	4,0		325,0	9,0	515,0	380,0	6,0	51,50	1000			
DSH-245	247	241,0	5,15	3,00	5,00	233,0	14,2	14,0	4,0		325,0	9,0	511,0	383,0	6,0	51,20	1000			
DSH-245	248	242,0	5,15	3,00	5,00	233,0	14,2	14,0	4,0		325,0	9,0	508,0	385,0	6,0	50,90	1000			
DSH-250	250	244,0	5,15	3,00	5,00	238,0	14,2	14,0	4,0		335,0	9,0	504,0	388,0	6,0	50,50	1000			
DSH-250	252	244,0	5,15	4,00	5,00	238,0	16,2	16,0	5,0		335,0	12,0	563,0	519,0	6,0	56,40	1000			
DSH-255	255	247,0	5,15	4,00	5,00	240,0	16,2	16,0	5,0		348,0	12,0	557,0	525,0	6,0	55,70	1000			
DSH-255	257	249,0	5,15	4,00	5,00	240,0	16,2	16,0	5,0	348,0	12,0	551,0	529,0	6,0	55,20	1000				
DSH-255	258	250,0	5,15	4,00	5,00	240,0	16,2	16,0	5,0	348,0	12,0	550,0	531,0	6,0	55,10	1000				
DSH-260	260	252,0	-0,81	5,15	4,00	5,00	245,0	16,2	16,0	5,0	355,0	12,0	540,0	535,0	6,0	54,60	1000			
DSH-260	262	254,0		5,15	4,00	5,00	245,0	16,2	16,0	5,0	355,0	12,0	542,0	540,0	6,0	54,40	1000			

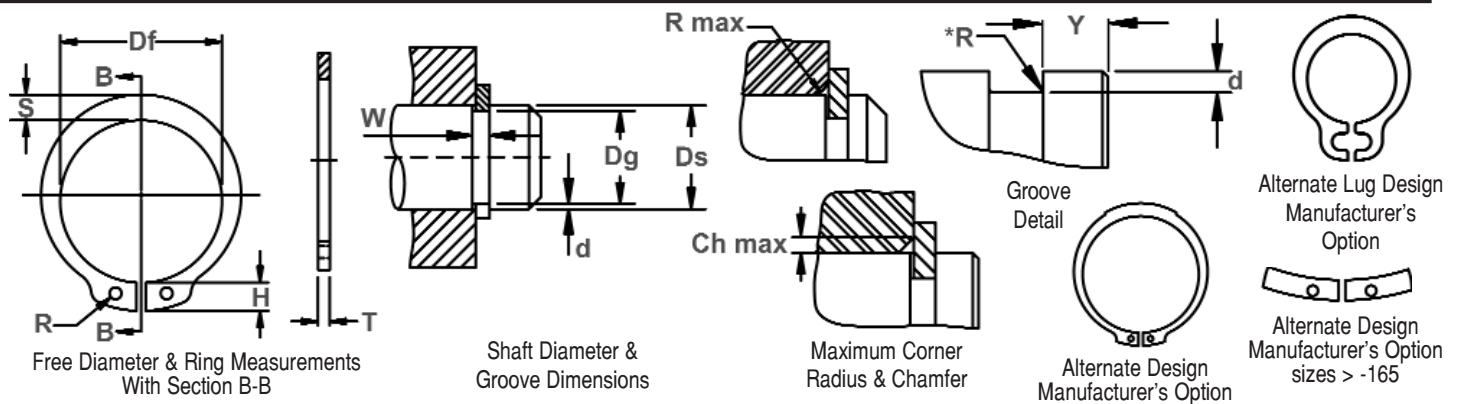
ALL DIMENSIONS IN MILLIMETERS.

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*** 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.

FOR HARDNESS SPECIFICATIONS, SEE END OF SECTION.



RING NO.	SHAFT DIA. (mm)	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	Allow-able Rad/ Cham.	Max. Load w/Ch Max.	RPM Limits
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/ 1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DSH-265	265	257,0	-0,81	5,15	4,00	5,00	-0,12	250,0	+0,72	16,2	16,0	5,0	370,0	12,0	536,0	546,0	6,0	53,70	1000
DSH-265	267	259,0		5,15	4,00	5,00		250,0	-1,70	16,2	16,0	5,0	370,0	12,0	532,0	550,0	6,0	53,30	1000
DSH-265	268	260,0		5,15	4,00	5,00		250,0	16,2	16,0	5,0	370,0	12,0	529,0	553,0	6,0	53,00	1000	
DSH-270	270	262,0		5,15	4,00	5,00		255,0	16,2	16,0	5,0	375,0	12,0	525,0	556,0	6,0	52,50	1000	
DSH-270	272	264,0		5,15	4,00	5,00		255,0	16,2	16,0	5,0	375,0	12,0	522,0	560,0	6,0	52,00	1000	
DSH-275	275	267,0		5,15	4,00	5,00		260,0	16,2	16,0	5,0	390,0	12,0	516,0	566,0	6,0	51,00	1000	
DSH-275	277	269,0		5,15	4,00	5,00		260,0	16,2	16,0	5,0	390,0	12,0	513,0	571,0	6,0	51,00	1000	
DSH-275	278	270,0		5,15	4,00	5,00		260,0	16,2	16,0	5,0	390,0	12,0	510,0	574,0	6,0	51,00	1000	
DSH-280	280	272,0		5,15	4,00	5,00		265,0	16,2	16,0	5,0	398,0	12,0	508,0	576,0	6,0	50,00	1000	
DSH-280	282	274,0		5,15	4,00	5,00		265,0	16,2	16,0	5,0	398,0	12,0	503,0	580,0	6,0	50,00	1000	
DSH-285	285	277,0		5,15	4,00	5,00		270,0	16,2	16,0	5,0	410,0	12,0	499,0	587,0	6,0	50,00	1000	
DSH-285	287	279,0		5,15	4,00	5,00		270,0	+0,81	16,2	16,0	5,0	410,0	12,0	494,0	591,0	6,0	49,00	1000
DSH-285	288	280,0		5,15	4,00	5,00		270,0	-2,00	16,2	16,0	5,0	410,0	12,0	493,0	594,0	6,0	49,00	1000
DSH-290	290	282,0		5,15	4,00	5,00		275,0	16,2	16,0	5,0	418,0	12,0	490,0	599,0	6,0	49,00	1000	
DSH-290	292	284,0		5,15	4,00	5,00		275,0	16,2	16,0	5,0	418,0	12,0	487,0	603,0	6,0	48,00	1000	
DSH-295	295	287,0		5,15	4,00	5,00		280,0	16,2	16,0	5,0	430,0	12,0	481,0	609,0	6,0	48,00	1000	
DSH-295	297	289,0	5,15	4,00	5,00	280,0	16,2	16,0	5,0	430,0	12,0	479,0	613,0	6,0	48,00	1000			
DSH-295	298	290,0	5,15	4,00	5,00	280,0	16,2	16,0	5,0	430,0	12,0	476,0	615,0	6,0	47,00	1000			
DSH-300	300	292,0	5,15	4,00	5,00	285,0	16,2	16,0	5,0	440,0	12,0	475,0	619,0	6,0	47,00	1000			
DSH-305	305	295,0	6,20	5,00	6,00	288,0	-0,15	20,2	20,0	6,0	738,0	15,0	1036,0	785,0	7,0	89,00	1000		
DSH-310	310	300,0	6,20	5,00	6,00	293,0		20,2	20,0	6,0	750,0	15,0	1016,0	796,0	7,0	87,00	1000		
DSH-315	315	305,0	6,20	5,00	6,00	298,0		20,2	20,0	6,0	760,0	15,0	1007,0	811,0	7,0	86,00	1000		

ALL DIMENSIONS IN MILLIMETERS.

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*** 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.

FOR HARDNESS SPECIFICATIONS, SEE END OF SECTION.

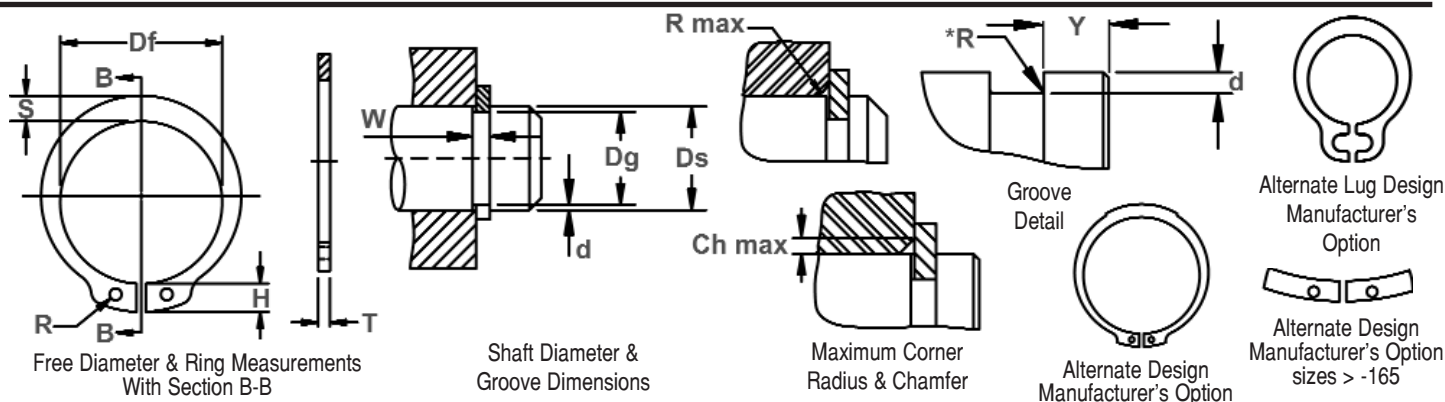


DSH Shaft Rings

(DIN 471)

Axially Assembled, External, Metric

Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a "shoulder") holds an assembly in place.



RING NO.	SHAFT DIA. (mm)	GROOVE SIZE			RING SIZE & WEIGHT								SUPPLEMENTARY DATA								
		DIAMETER	WIDT	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE MARGIN	THRUST LOAD Ring	THRUST LOAD Groove	Allow-able Rad/ Cham.	Max. Load w/Ch Max.	RPM Limits			
	Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/ 1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN			
DSH-320	320	310,0	-0,81	6,20	5,00	6,00		303,0	+0,81	20,2	20,0	6,0	770,0	15,0	988,0	825,0	7,0	85,00	1000		
DSH-325	325	315,0			6,20	5,00		6,00	308,0	-2,00	20,2	20,0	6,0	787,0	15,0	975,0	837,0	7,0	83,00	1000	
DSH-330	330	320,0			6,20	5,00		6,00	313,0		20,2	20,0	6,0	800,0	15,0	958,0	850,0	7,0	82,00	1000	
DSH-335	335	325,0			6,20	5,00		6,00	318,0		20,2	20,0	6,0	826,0	15,0	945,0	864,0	7,0	81,00	1000	
DSH-340	340	330,0			6,20	5,00		6,00	323,0		20,2	20,0	6,0	840,0	15,0	932,0	876,0	7,0	80,00	1000	
DSH-345	345	335,0	-0,89	6,20	5,00	6,00		328,0		20,2	20,0	6,0	845,0	15,0	917,0	890,0	7,0	79,00	1000		
DSH-350	350	340,0			6,20	5,00		6,00	333,0		20,2	20,0	6,0	850,0	15,0	906,0	903,0	7,0	77,00	1000	
DSH-355	355	345,0			6,20	5,00		6,00	338,0		20,2	20,0	6,0	865,0	15,0	894,0	916,0	7,0	76,00	1000	
DSH-360	360	350,0			6,20	5,00		6,00	343,0	+0,90	20,2	20,0	6,0	880,0	15,0	880,0	928,0	7,0	75,00	1000	
DSH-365	365	355,0			6,20	5,00		6,00	348,0	-2,00	20,2	20,0	6,0	885,0	15,0	868,0	942,0	7,0	74,00	1000	
DSH-370	370	360,0			6,20	5,00		6,00	353,0		20,2	20,0	6,0	890,0	15,0	856,0	955,0	7,0	73,00	1000	
DSH-375	375	365,0			6,20	5,00		6,00	358,0		20,2	20,0	6,0	910,0	15,0	847,0	968,0	7,0	72,00	1000	
DSH-380	380	370,0			6,20	5,00		6,00	363,0		20,2	20,0	6,0	930,0	15,0	833,0	980,0	7,0	71,00	1000	
DSH-385	385	375,0			6,20	5,00		6,00	368,0		20,2	20,0	6,0	940,0	15,0	823,0	994,0	7,0	70,00	1000	
DSH-390	390	380,0			6,20	5,00		6,00	373,0		20,2	20,0	6,0	950,0	15,0	814,0	1008,0	7,0	70,00	1000	
DSH-395	395	385,0	-1,00	6,20	5,00	6,00		378,0		20,2	20,0	6,0	990,0	15,0	803,0	1021,0	7,0	69,00	1000		
DSH-400	400	390,0			6,20	5,00		6,00	383,0		20,2	20,0	6,0	1040,0	15,0	793,0	1033,0	7,0	69,00	1000	
DSH-410	410	398,0			7,20	6,00		7,00	390,0	+1,00	26,2	26,0	6,0	1320,0	18,0	1616,0	1269,0	7,0	139,0	1000	
DSH-420	420	408,0			7,20	6,00		7,00	400,0			26,2	26,0	6,0	1360,0	18,0	1569,0	1300,0	7,0	135,0	1000
DSH-430	430	418,0			7,20	6,00		7,00	410,0		-2,00	26,2	26,0	6,0	1390,0	18,0	1540,0	1332,0	7,0	132,0	1000
DSH-440	440	428,0		7,20	6,00	7,00	420,0		26,2	26,0	6,0	1420,0	18,0	1500,0	1363,0	7,0	129,0	1000			
DSH-450	450	438,0		7,20	6,00	7,00	430,0		26,2	26,0	6,0	1450,0	18,0	1472,0	1393,0	7,0	126,0	1000			

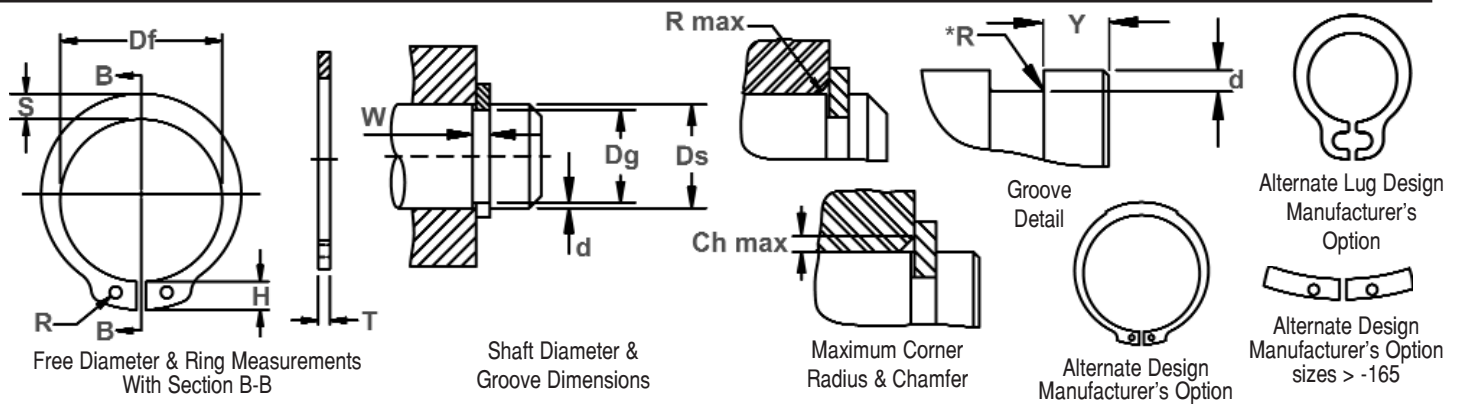
ALL DIMENSIONS IN MILLIMETERS.

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

*** 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.

HARDNESS RANGES: STAINLESS STEEL RINGS (DIN 1.4122 X39CrMo17)

RING TYPE	SIZE RANGE	HARDNESS			
		HV	HRC	15N	30N
DSH	ALL	471-577	47-54	83.9-87.4	65.8-72



RING NO.	SHAFT DIA. (mm)	GROOVE SIZE			RING SIZE & WEIGHT								SUPPLEMENTARY DATA						
		DIAMETER	WIDT	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE MARGIN	THRUST LOAD Ring	THRUST LOAD Groove	Allow-able Rad/ Cham.	Max. Load w/Ch Max.	RPM Limits	
	Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/ 1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN	
DSH-460	460	448,0	-1,00	7,20	6,00	7,00	-0,15	440,0	+1,00	26,2	26,0	6,0	1520,0	18,0	1443,0	1426,0	7,0	124,0	1000
DSH-470	470	458,0		7,20	6,00	7,00		450,0		26,2	26,0	6,0	1590,0	18,0	1413,0	1457,0	7,0	121,0	1000
DSH-480	480	468,0		7,20	6,00	7,00		460,0	26,2	26,0	6,0	1660,0	18,0	1383,0	1489,0	7,0	119,0	500	
DSH-490	490	478,0		7,20	6,00	7,00		470,0	26,2	26,0	6,0	1725,0	18,0	1355,0	1520,0	7,0	116,0	500	
DSH-500	500	488,0		7,20	6,00	7,00		480,0	26,2	26,0	6,0	1790,0	18,0	1329,0	1550,0	7,0	114,0	500	
DSH-510	510	496,0		8,20	7,00	8,00		485,0	26,2	26,0	6,0	2300,0	21,0	1952,0	1843,0	7,0	167,0	1000	
DSH-520	520	506,0		8,20	7,00	8,00		495,0	26,2	26,0	6,0	2350,0	21,0	1910,0	1880,0	7,0	164,0	500	
DSH-530	530	516,0		8,20	7,00	8,00		505,0	26,2	26,0	6,0	2400,0	21,0	1878,0	1916,0	7,0	161,0	500	
DSH-540	540	526,0		8,20	7,00	8,00		515,0	26,2	26,0	6,0	2445,0	21,0	1846,0	1953,0	7,0	158,0	400	
DSH-550	550	536,0		8,20	7,00	8,00		525,0	26,2	26,0	6,0	2490,0	21,0	1812,0	1986,0	7,0	155,0	400	
DSH-560	560	546,0		8,20	7,00	8,00	535,0	26,2	26,0	6,0	2580,0	21,0	1777,0	2026,0	7,0	153,0	400		
DSH-570	570	556,0		8,20	7,00	8,00	545,0	26,2	26,0	6,0	2670,0	21,0	1750,0	2063,0	7,0	150,0	400		
DSH-580	580	566,0		8,20	7,00	8,00	555,0	26,2	26,0	6,0	2760,0	21,0	1718,0	2100,0	7,0	147,0	400		
DSH-590	590	576,0		8,20	7,00	8,00	565,0	26,2	26,0	6,0	2840,0	21,0	1689,0	2136,0	7,0	145,0	400		
DSH-600	600	586,0		8,20	7,00	8,00	575,0	26,2	26,0	6,0	2920,0	21,0	1600,0	2170,0	7,0	143,0	300		
DSH-650	650	634,0		9,30	8,00	9,00	620,0	34,0	34,0	6,0	3770,0	24,0	2810,0	2640,0	7,0	242,0	400		
DSH-700**	700	684,0		9,30	8,00	9,00	670,0	34,0	34,0	6,0	4070,0	24,0	2615,0	2890,0	7,0	225,0	300		
DSH-750**	750	732,0		9,30	9,00	9,00	715,0	34,0	34,0	9,0	4640,0	27,0	2450,0	3490,0	7,0	207,0	190		
DSH-800**	800	782,0		9,30	9,00	9,00	765,0	34,0	34,0	9,0	5330,0	27,0	2299,0	3730,0	7,0	195,0	300		
DSH-850**	850	830,0		9,30	10,00	9,00	810,0	34,0	34,0	9,0	6030,0	30,0	2166,0	4400,0	7,0	183,0	300		
DSH-900**	900	880,0	9,30	10,00	9,00	860,0	34,0	34,0	9,0	6640,0	30,0	2047,0	4650,0	7,0	173,0	200			
DSH-950**	950	928,0	9,30	11,00	9,00	900,0	34,0	34,0	9,0	7260,0	33,0	1945,0	5400,0	7,0	165,0	200			
DSH-1000**	1000	978,0	9,30	11,00	9,00	950,0	34,0	34,0	9,0	8130,0	33,0	1851,0	5700,0	7,0	157,0	200			

ALL DIMENSIONS IN MILLIMETERS.

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

** THESE PARTS ARE MADE WITH A CONSTANT SECTION WIDTH (NO TAPER)

*** 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.

HARDNESS RANGES: STAINLESS STEEL RINGS (PH 15-7MO)

RING TYPE	SIZE RANGE	HARDNESS		
		VICKERS	ROCKWELL	
			HRC	LOWER SCALE*
DSH	3 & 4	435-530	44-51	82.5-86 HR30N**
	5-17	435-530	44-51	63-69.5 HR30N
	18-48	435-530	44-51	-
	50-200	435-530	44-51	-

*WHERE APPLICABLE

** HARDNESS CAN NOT BE CHECKED WITH ANY DEGREE OF ACCURACY DIRECTLY ON THESE RINGS.

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

RING TYPE	SIZE RANGE	HARDNESS		
		VICKERS	ROCKWELL	
			HRC	LOWER SCALE*
DSH	3 & 4	470-580	47-54	84-87.5 HR30N**
	5-17	470-580	47-54	66-72 HR30N
	18-48	470-580	47-54	-
	50-200	435-530	44-51	-
	202-300	390-470	40-47	-
	305-1000	370-415	38-43	-

*WHERE APPLICABLE

**HARDNESS CAN NOT BE CHECKED WITH ANY DEGREE OF ACCURACY DIRECTLY ON THESE RINGS.

