

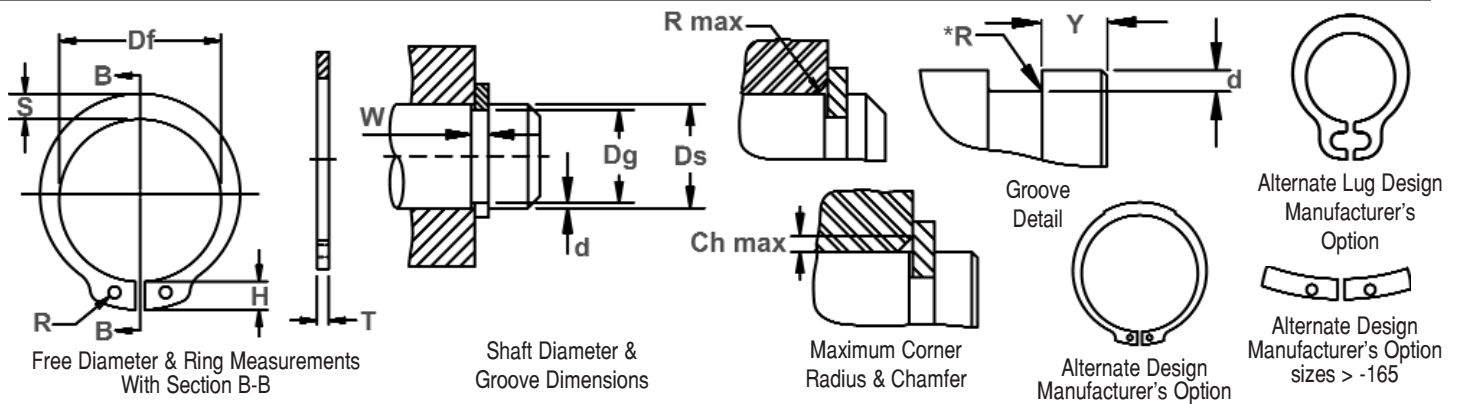


DSH Shaft Rings

(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	Allowable 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	-0,06	0,70	0,10	0,60	-0,10	4,7	+0,06	2,5	1,1	1,0	0,066	0,3	1,00	0,2	0,5	0,80	154000	
DSH-6	6	5,7		0,80	0,15	0,70		5,6		2,7	1,3	1,2	0,084	0,5	1,45	0,4	0,5	0,90	114000	
DSH-7	7	6,7	-0,11	0,90	0,15	0,80	-0,18	6,5	+0,06	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	-0,36	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	-0,11	1,10	0,25	1,00	-0,36	10,2	+0,10	3,3	1,8	1,5	0,410	0,8	4,50	1,4	1,0	2,40	70000	
DSH-12	12	11,5		1,10	0,25	1,00		11,0		3,3	1,8	1,7	0,500	0,8	5,00	1,5	1,0	2,40	75000	
DSH-13	13	12,4	-0,15	1,10	0,30	1,00	-0,42	11,9	+0,13	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	-0,15	1,10	0,35	1,00	-0,42	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	-0,15	1,10	0,40	1,00	-0,42	15,7	+0,13	3,8	2,3	1,7	0,820	1,2	8,00	3,4	1,0	2,40	41000	
DSH-18	18	17,0		1,30	0,50	1,20		16,5		3,9	2,4	2,0	1,110	1,5	17,00	4,5	1,5	3,75	39000	
DSH-19	19	18,0	-0,15	1,30	0,50	1,20	-0,42	17,5	+0,13	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	-0,42	19,5	+0,13	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	-0,15	1,30	0,50	1,20	-0,42	21,5	+0,13	4,3	2,9	2,0	1,630	1,5	16,60	5,9	1,5	3,80	25000	
DSH-24	24	22,9		1,30	0,55	1,20		22,2		4,4	3,0	2,0	1,770	1,7	16,10	6,7	1,5	3,65	27000	
DSH-25	25	23,9	-0,15	1,30	0,55	1,20	-0,42	23,2	+0,13	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	-0,15	1,30	0,70	1,20	-0,42	24,9	+0,21	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	-0,15	1,60	0,70	1,50	-0,42	26,9	+0,21	4,8	3,4	2,0	3,200	2,1	31,80	10,3	1,5	7,45	20000	
DSH-30	30	28,6		1,60	0,70	1,50		27,9		5,0	3,5	2,0	3,320	2,1	32,10	10,7	1,5	7,65	18900	
DSH-31	31	29,3	-0,15	1,60	0,85	1,50	-0,42	28,6	+0,25	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	-0,15	1,60	0,85	1,50	-0,50	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	-0,15	1,60	1,00	1,50	-0,50	32,2		5,6	3,9	2,5	4,000	3,0	30,80	17,8	2,0	5,55	15500	

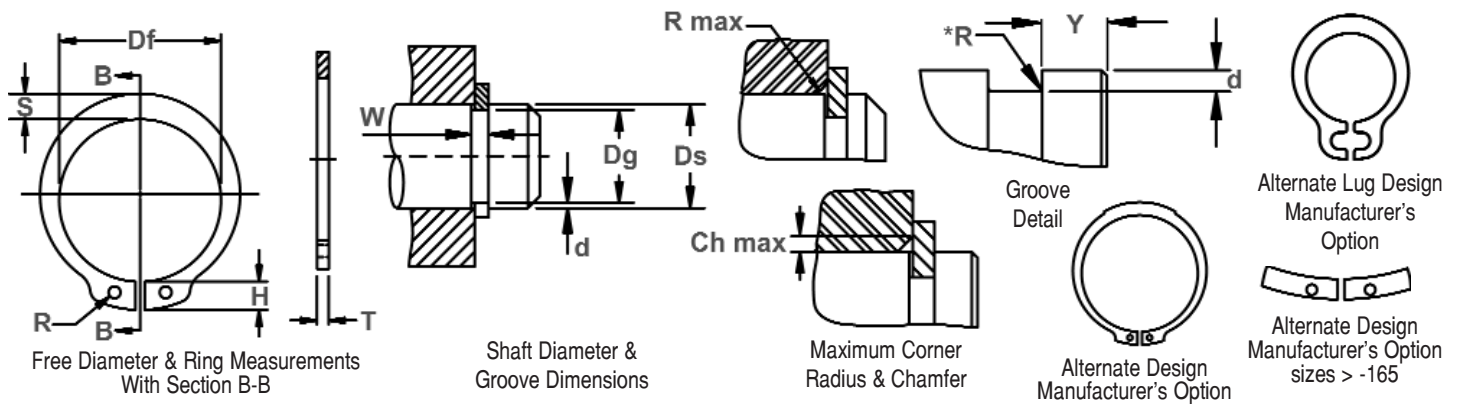
ALL DIMENSIONS IN MILLIMETERS.

*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	Allowable 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.	Pr kN
DSH-36	36	34,0		1,85	1,00	1,75		33,2		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	+0,25	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		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	-0,25	1,85	1,25	1,75	-0,06	38,5	+0,39	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	-0,90	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	-0,07	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	-0,30	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	+0,46	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	-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.

*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.

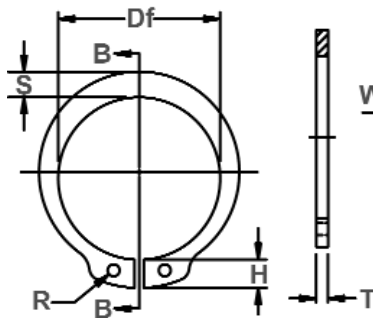


DSH Shaft Rings

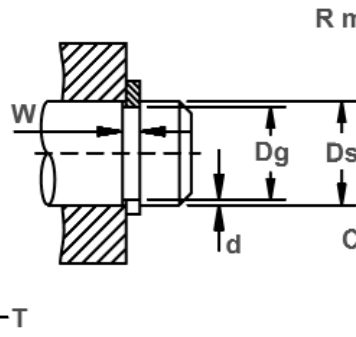
(DIN 471)

Axially Assembled, External, Metric

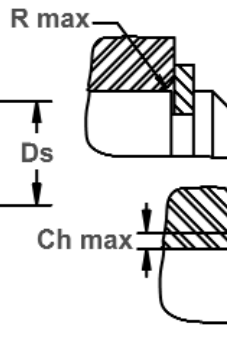
Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a "shoulder") holds an assembly in place.



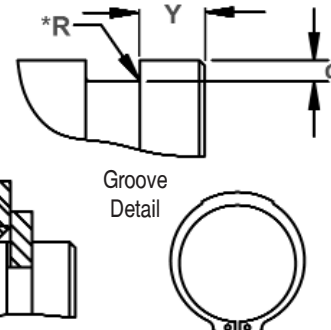
Free Diameter & Ring Measurements With Section B-B



Shaft Diameter & Groove Dimensions



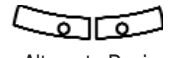
Maximum Corner Radius & Chamfer



Groove Detail



Alternate Lug Design Manufacturer's Option



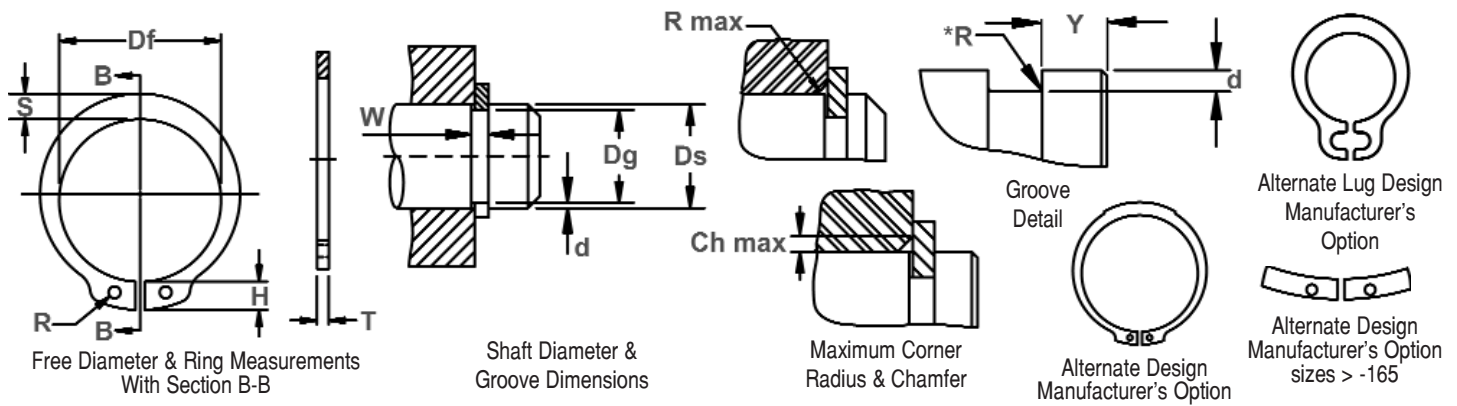
Alternate Design Manufacturer's Option sizes > -165

RING NO.	SHAFT DIA. (mm)		GROOVE SIZE				RING SIZE & WEIGHT						SUPPLEMENTARY DATA						
	Ds	Dg	TOL.	W Min.	d	T	Tol.	FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE MARGIN	THRUST LOAD Ring	THRUST LOAD Groove	Allowable Rad/Cham.	Max. Load w/Ch Max.	RPM Limits
								Df	Tol.										
DSH-87	87	83.5	-0.35	3.15	1.75	3.00	-0.08	81.5	+0.54	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		3.15	1.75	3.00		91.5		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	4.15	2.00	4.00	100.0	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	4.15	2.00	4.00	110.0	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	4.15	2.00	4.00	120.0	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	4.15	2.00	4.00	130.0	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	4.15	2.00	4.00	140.0	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.

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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	Allowable Rad/Cham.	Max. Load w/Ch Max.
	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-152	152	147.0		4,15	2,50	4,00		143,0		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	-0,63	4,15	2,50	4,00	-0,10	157,5	+0,63	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	-1,50	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	+0,72	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		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	-0,12	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.

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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.

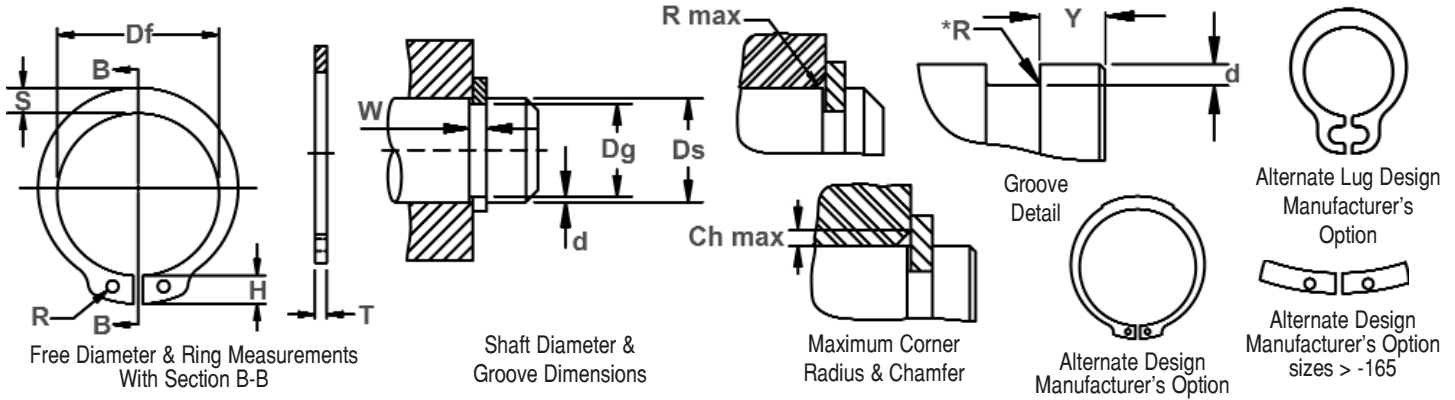


DSH Shaft Rings

(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	Allowable 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		5,15	3,00	5,00		208,0												
DSH-220	222	216.0		5,15	3,00	5,00		208,0												
DSH-225	225	219.0		5,15	3,00	5,00		213,0												
DSH-225	227	221.0		5,15	3,00	5,00		213,0												
DSH-225	228	222.0		5,15	3,00	5,00		213,0												
DSH-230	230	224.0		5,15	3,00	5,00		218,0												
DSH-230	232	226.0		5,15	3,00	5,00		218,0												
DSH-235	235	229.0		5,15	3,00	5,00		223,0												
DSH-235	237	231.0	-0,72	5,15	3,00	5,00		223,0												
DSH-235	238	232.0		5,15	3,00	5,00		223,0												
DSH-240	240	234.0		5,15	3,00	5,00		228,0	+0,72											
DSH-240	242	236.0		5,15	3,00	5,00		228,0	-1,70											
DSH-245	245	239.0		5,15	3,00	5,00		233,0												
DSH-245	247	241.0		5,15	3,00	5,00	-0,12	233,0												
DSH-245	248	242.0		5,15	3,00	5,00		233,0												
DSH-250	250	244.0		5,15	3,00	5,00		238,0												
DSH-250	252	244.0		5,15	4,00	5,00		238,0												
DSH-255	255	247.0		5,15	4,00	5,00		240,0												
DSH-255	257	249.0		5,15	4,00	5,00		240,0												
DSH-255	258	250.0		5,15	4,00	5,00		240,0												
DSH-260	260	252.0		5,15	4,00	5,00		245,0												
DSH-260	262	254.0		5,15	4,00	5,00		245,0												
DSH-265	265	257.0		5,15	4,00	5,00		250,0												
DSH-265	267	259.0		5,15	4,00	5,00		250,0												
DSH-265	268	260.0		5,15	4,00	5,00		250,0												
DSH-270	270	262.0	-0,81	5,15	4,00	5,00		255,0												
DSH-270	272	264.0		5,15	4,00	5,00		255,0												
DSH-275	275	267.0		5,15	4,00	5,00		260,0	+0,81											
DSH-275	277	269.0		5,15	4,00	5,00		260,0	-2,00											
DSH-275	278	270.0		5,15	4,00	5,00		260,0												
DSH-280	280	272.0		5,15	4,00	5,00		265,0												
DSH-280	282	274.0		5,15	4,00	5,00		265,0												

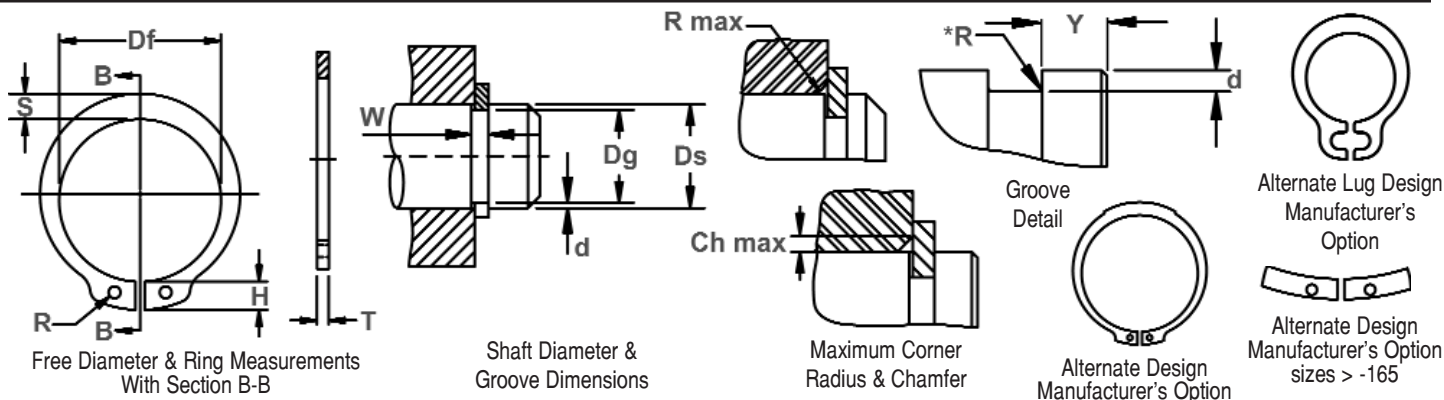
ALL DIMENSIONS IN MILLIMETERS.

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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		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/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-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		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		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	-0.12	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	-0.81	5.15	4.00	5.00		280.0	+0.81	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	-2.00	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		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
DSH-320	320	310.0		6.20	5.00	6.00		303.0		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		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		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	-0.15	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	-0.89	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		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

*** 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.

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

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

RING TYPE	SIZE RANGE	HARDNESS		
		VICKERS	ROCKWELL	
DSH	3 & 4	435-530	HRC	LOWER SCALE*
			44-51	82.5-86 HR30N**
	5-17	435-530	44-51	63-69.5 HR30N
			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	-
	305-400	370-415	38-43	-

*WHERE APPLICABLE

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