

# AXIALLY INSTALLED

HUYETT.COM • 785-392-3017



## EXTERNAL – BASIC METRIC

DIN 471

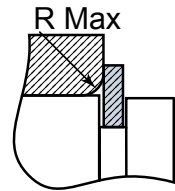
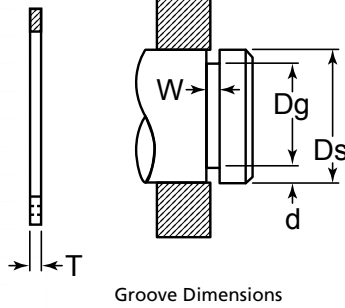
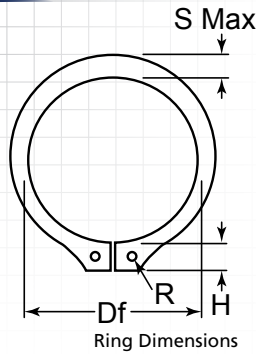


### DESCRIPTION

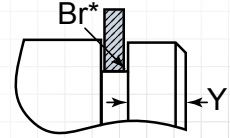
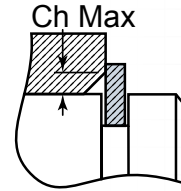
Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a shoulder) holds an assembly in place.

### HOW TO IDENTIFY

1. Verify external design and appearance.
2. Measure the shaft diameter (Ds).
3. Measure the ring cross section (S Max).
4. Measure the ring thickness (T).
5. Find the part in the chart.



Maximum Corner Radius (R Max) & Chamfer (Ch Max) for Retained Part



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

Item #	Shaft Dia. (mm)	Groove Size				Ring Size & Weight								Supplementary Data					
		Diameter		Width	Depth	Thickness <sup>2</sup>		Free Diameter		Lug Ht.	Max. Sect.	Hole Dia.	Weight	Edge Margin	Thrust Load Ring	Thrust Load Groove	Allowable Radii/ Chamfers or Ch Max.	Max. Load w/R Max.	RPM Limits
		Ds	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Max.	R Min.	kg/ 1,000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DSH-003	3	2.8	-0.04	0.50	0.10	0.40	-0.05	2.7		1.9	0.8	1.0	0.017	0.3	0.47	0.1	0.5	0.27	360,000
DSH-004	4	3.8	-0.04	0.50	0.10	0.40	-0.05	3.7	+0.04/	2.2	0.9	1.0	0.022	0.3	0.50	0.2	0.5	0.30	211,000
DSH-005	5	4.8	-0.04	0.70	0.10	0.60	-0.05	4.7	-0.15	2.5	1.1	1.0	0.066	0.3	1.00	0.2	0.5	0.80	154,000
DSH-006	6	5.7	-0.04	0.80	0.15	0.70	-0.05	5.6		2.7	1.3	1.2	0.084	0.5	1.45	0.4	0.5	0.90	114,000
DSH-007	7	6.7	-0.06	0.90	0.15	0.80	-0.05	6.5		3.1	1.4	1.2	0.121	0.5	2.60	0.5	0.5	1.40	121,000
DSH-008	8	7.6	-0.06	0.90	0.20	0.80	-0.05	7.4	+0.06/	3.2	1.5	1.2	0.158	0.6	3.00	0.8	0.5	2.00	96,000
DSH-009	9	8.6	-0.06	1.10	0.20	1.00	-0.06	8.4	-0.18	3.3	1.7	1.2	0.300	0.6	3.50	0.9	0.5	2.40	85,000
DSH-010	10	9.6	-0.06	1.10	0.20	1.00	-0.06	9.3		3.3	1.8	1.5	0.340	0.6	4.00	1.0	1.0	2.40	84,000
DSH-011	11	10.5	-0.11	1.10	0.25	1.00	-0.06	10.2		3.3	1.8	1.5	0.410	0.8	4.50	1.4	1.0	2.40	70,000
DSH-012	12	11.5	-0.11	1.10	0.25	1.00	-0.06	11.0		3.3	1.8	1.7	0.500	0.8	5.00	1.5	1.0	2.40	75,000
DSH-013	13	12.4	-0.11	1.10	0.30	1.00	-0.06	11.9		3.4	2.0	1.7	0.530	0.9	5.80	2.0	1.0	2.40	66,000
DSH-014	14	13.4	-0.11	1.10	0.30	1.00	-0.06	12.9	+0.10/	3.5	2.1	1.7	0.640	0.9	6.40	2.1	1.0	2.40	58,000
DSH-015	15	14.3	-0.11	1.10	0.35	1.00	-0.06	13.8	-0.36	3.6	2.2	1.7	0.670	1.1	6.90	2.6	1.0	2.40	50,000
DSH-016	16	15.2	-0.11	1.10	0.40	1.00	-0.06	14.7		3.7	2.2	1.7	0.700	1.2	7.40	3.2	1.0	2.40	45,000
DSH-017	17	16.2	-0.11	1.10	0.40	1.00	-0.06	15.7		3.8	2.3	1.7	0.820	1.2	8.00	3.4	1.0	2.40	41,000
DSH-018	18	17.0	-0.11	1.30	0.50	1.20	-0.06	16.5		3.9	2.4	2.0	1.110	1.5	17.00	4.5	1.5	3.75	39,000
DSH-019	19	18.0	-0.11	1.30	0.50	1.20	-0.06	17.5		3.9	2.5	2.0	1.220	1.5	17.00	4.8	1.5	3.80	35,000
DSH-020	20	19.0	-0.13	1.30	0.50	1.20	-0.06	18.5		4.0	2.6	2.0	1.300	1.5	17.10	5.0	1.5	3.85	32,000
DSH-021	21	20.0	-0.13	1.30	0.50	1.20	-0.06	19.5	+0.13/	4.1	2.7	2.0	1.420	1.5	16.80	5.3	1.5	3.75	29,000
DSH-022	22	21.0	-0.13	1.30	0.50	1.20	-0.06	20.5	-0.42	4.2	2.8	2.0	1.500	1.5	16.90	5.6	1.5	3.80	27,000
DSH-023	23	22.0	-0.15	1.30	0.50	1.20	-0.06	21.5		4.3	2.9	2.0	1.630	1.5	16.60	5.9	1.5	3.80	25,000

TO ORDER DIFFERENT MATERIAL/FINISHES,  
APPEND SUFFIX WITH YOUR CHOICE:  
"NONE" • -SS • -ZD • -Z3

All dimensions in millimeters.  
For hardness specifications, see page 88.

<sup>2</sup> For plated rings add 0.05 mm to the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 mm less than the listed groove width (W) minimum.

STACKED OPTIONS  
AVAILABLE, SEE  
HUYETT.COM FOR  
MORE DETAILS

## DIN 471

## EXTERNAL – BASIC METRIC

### SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-66 = STAINLESS STEEL, FLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.  
More finishes available, see page 22 for a complete listing.



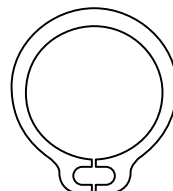
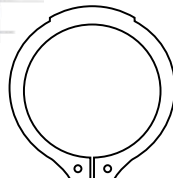
Item #	Shaft Dia. (mm)	Groove Size			Ring Size & Weight						Supplementary Data								
		Diameter		Width	Depth	Thickness <sup>2</sup>		Free Diameter		Lug Ht.	Max. Sect.	Hole Dia.	Weight	Edge Margin	Thrust Load Ring	Thrust Load Groove	Allowable Radii/ Chamfers	Max. Load w/R Max. or Ch Max.	RPM Limits
		Ds	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Max.	R Min.	kg/ 1,000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DSH-024	24	22.9	-0.21	1.30	0.55	1.20	-0.06	22.2		4.4	3.0	2.0	1.770	1.7	16.10	6.7	1.5	3.65	27,000
DSH-025	25	23.9	-0.21	1.30	0.55	1.20	-0.06	23.2		4.4	3.0	2.0	1.900	1.7	16.20	7.0	1.5	3.70	25,000
DSH-026	26	24.9	-0.21	1.30	0.55	1.20	-0.06	24.2		4.5	3.1	2.0	1.960	1.7	16.10	7.3	1.5	3.70	24,000
DSH-027	27	25.6	-0.21	1.30	0.70	1.20	-0.06	24.9		4.6	3.1	2.0	2.080	2.1	16.40	9.6	1.5	3.80	22,500
DSH-028	28	26.6	-0.21	1.60	0.70	1.50	-0.06	25.9	+0.21/ -0.42	4.7	3.2	2.0	2.920	2.1	32.10	10.0	1.5	7.50	21,200
DSH-029	29	27.6	-0.21	1.60	0.70	1.50	-0.06	26.9		4.8	3.4	2.0	3.200	2.1	31.80	10.3	1.5	7.45	20,000
DSH-030	30	28.6	-0.21	1.60	0.70	1.50	-0.06	27.9		5.0	3.5	2.0	3.320	2.1	32.10	10.7	1.5	7.65	18,900
DSH-031	31	29.3	-0.21	1.60	0.85	1.50	-0.06	28.6		5.1	3.5	2.5	3.450	2.6	31.50	13.4	2.0	5.60	17,900
DSH-032	32	30.3	-0.25	1.60	0.85	1.50	-0.06	29.6		5.2	3.6	2.5	3.540	2.6	31.20	13.8	2.0	5.55	16,900
DSH-033	33	31.3	-0.25	1.60	0.85	1.50	-0.06	30.5		5.2	3.7	2.5	3.690	2.6	31.60	14.3	2.0	5.65	17,400
DSH-034	34	32.3	-0.25	1.60	0.85	1.50	-0.06	31.5		5.4	3.8	2.5	3.800	2.6	31.30	14.7	2.0	5.60	16,100
DSH-035	35	33.0	-0.25	1.60	1.00	1.50	-0.06	32.2	+0.25/ -0.50	5.6	3.9	2.5	4.000	3.0	30.80	17.8	2.0	5.55	15,500
DSH-036	36	34.0	-0.25	1.85	1.00	1.75	-0.06	33.2		5.6	4.0	2.5	5.000	3.0	49.40	18.3	2.0	9.00	14,500
DSH-037	37	35.0	-0.25	1.85	1.00	1.75	-0.06	34.2		5.7	4.1	2.5	5.370	3.0	50.00	18.8	2.0	9.15	14,100
DSH-038	38	36.0	-0.25	1.85	1.00	1.75	-0.06	35.2		5.8	4.2	2.5	5.620	3.0	49.50	19.3	2.0	9.10	13,600
DSH-039	39	37.0	-0.25	1.85	1.00	1.75	-0.06	36.0		5.9	4.3	2.5	5.850	3.0	49.80	19.9	2.0	9.25	14,500
DSH-040	40	37.5	-0.25	1.85	1.25	1.75	-0.06	36.5		6.0	4.4	2.5	6.030	3.8	51.00	25.3	2.0	9.50	14,300
DSH-041	41	38.5	-0.25	1.85	1.25	1.75	-0.06	37.5		6.2	4.5	2.5	6.215	3.8	50.10	26.0	2.0	9.40	13,500
DSH-042	42	39.5	-0.25	1.85	1.25	1.75	-0.06	38.5		6.5	4.5	2.5	6.500	3.8	50.00	26.7	2.0	9.45	13,000
DSH-044	44	41.5	-0.25	1.85	1.25	1.75	-0.06	40.5		6.6	4.6	2.5	7.000	3.8	48.50	28.0	2.0	9.20	11,800
DSH-045	45	42.5	-0.25	1.85	1.25	1.75	-0.06	41.5	+0.39/ -0.90	6.7	4.7	2.5	7.500	3.8	49.0	28.6	2.0	9.35	11,400
DSH-046	46	43.5	-0.25	1.85	1.25	1.75	-0.06	42.5		6.7	4.8	2.5	7.600	3.8	48.9	29.4	2.0	9.40	10,900
DSH-047	47	44.5	-0.25	1.85	1.25	1.75	-0.06	43.5		6.8	4.9	2.5	7.500	3.8	49.5	30.0	2.0	9.55	11,000
DSH-048	48	45.5	-0.25	1.85	1.25	1.75	-0.06	44.5		6.9	5.0	2.5	7.900	3.8	49.4	30.7	2.0	9.55	10,000
DSH-050	50	47.0	-0.25	2.15	1.50	2.00	-0.07	45.8		6.9	5.1	2.5	10.20	4.5	73.3	38.0	2.0	14.40	11,000
DSH-052	52	49.0	-0.25	2.15	1.50	2.00	-0.07	47.8		7.0	5.2	2.5	11.10	4.5	73.1	39.7	2.5	11.50	10,000
DSH-054	54	51.0	-0.30	2.15	1.50	2.00	-0.07	49.8		7.1	5.3	2.5	11.30	4.5	71.2	41.2	2.5	11.30	9,000
DSH-055	55	52.0	-0.30	2.15	1.50	2.00	-0.07	50.8		7.2	5.4	2.5	11.40	4.5	71.4	42.0	2.5	11.40	9,000
DSH-056	56	53.0	-0.30	2.15	1.50	2.00	-0.07	51.8		7.3	5.5	2.5	11.80	4.5	70.8	42.8	2.5	11.30	9,000
DSH-057	57	54.0	-0.30	2.15	1.50	2.00	-0.07	52.8		7.3	5.5	2.5	12.20	4.5	70.9	43.7	2.5	11.40	8,000
DSH-058	58	55.0	-0.30	2.15	1.50	2.00	-0.07	53.8	+0.46/ -1.10	7.3	5.6	2.5	12.60	4.5	71.1	44.3	2.5	11.50	8,000
DSH-060	60	57.0	-0.30	2.15	1.50	2.00	-0.07	55.8		7.4	5.8	2.5	12.90	4.5	69.2	46.0	2.5	11.30	8,000
DSH-062	62	59.0	-0.30	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	7,000
DSH-063	63	60.0	-0.30	2.15	1.50	2.00	-0.07	58.8		7.6	6.2	2.5	15.90	4.5	70.2	48.3	2.5	11.60	7,000
DSH-065	65	62.0	-0.30	2.65	1.50	2.50	-0.07	60.8		7.8	6.3	3.0	18.20	4.5	135.0	49.8	2.5	22.70	7,000

### ALTERNATE DESIGNS

(Manufacturer's Option)



Sizes under DSH-165



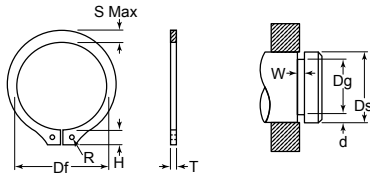
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DIN 471



### HOW TO IDENTIFY

1. Verify external design and appearance.
2. Measure the shaft diameter (Ds).
3. Measure the ring cross section (S Max).
4. Measure the ring thickness (T).
5. Find the part in the chart.

Item #	Shaft Dia. (mm)	Groove Size			Ring Size & Weight						Supplementary Data								
		Diameter		Width	Depth	Thickness <sup>2</sup>		Free Diameter		Lug Ht.	Max. Sect.	Hole Dia.	Weight	Edge Margin	Thrust Load Ring	Thrust Load Groove	Allowable Radii/ Chamfers	Max. Load w/R Max. or Ch Max.	RPM Limits
		Ds	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Max.	R Min.	kg/ 1,000	Y Min.	Pr kN	Pg kN	R/Ch Max.	Pr kN
DSH-067	67	64.0	-0.30	2.65	1.50	2.50	-0.07	62.5		7.9	6.4	3.0	20.30	4.5	136.0	51.3	2.5	23.00	7,000
DSH-068	68	65.0	-0.30	2.65	1.50	2.50	-0.07	63.5		8.0	6.5	3.0	21.80	4.5	135.0	52.2	2.5	23.10	7,000
DSH-070	70	67.0	-0.30	2.65	1.50	2.50	-0.07	65.5		8.1	6.6	3.0	22.00	4.5	134.0	53.8	2.5	23.00	7,000
DSH-072	72	69.0	-0.30	2.65	1.50	2.50	-0.07	67.5		8.2	6.8	3.0	22.50	4.5	131.0	55.3	2.5	22.80	6,000
DSH-075	75	72.0	-0.30	2.65	1.50	2.50	-0.07	70.5	+0.46/	8.4	7.0	3.0	24.60	4.5	130.0	57.6	2.5	22.80	6,000
DSH-077	77	74.0	-0.30	2.65	1.50	2.50	-0.07	72.5	-1.10	8.5	7.2	3.0	25.70	4.5	131.0	59.3	3.0	19.70	6,000
DSH-078	78	75.0	-0.30	2.65	1.50	2.50	-0.07	73.5		8.6	7.3	3.0	26.20	4.5	131.0	60.0	3.0	19.70	5,000
DSH-080	80	76.5	-0.30	2.65	1.75	2.50	-0.07	74.5		8.6	7.4	3.0	27.30	5.3	128.0	71.6	3.0	19.50	6,000
DSH-082	82	78.5	-0.30	2.65	1.75	2.50	-0.07	76.5		8.7	7.6	3.0	31.20	5.3	128.0	73.5	3.0	19.60	6,000
DSH-085	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	6,000
DSH-087	87	83.5	-0.35	3.15	1.75	3.00	-0.08	81.5		8.8	7.9	3.5	39.80	5.3	222.0	78.2	3.0	34.80	5,000
DSH-088	88	84.5	-0.35	3.15	1.75	3.00	-0.08	82.5		8.8	8.0	3.5	41.20	5.3	221.0	79.0	3.0	34.80	5,000
DSH-090	90	86.5	-0.35	3.15	1.75	3.00	-0.08	84.5		8.8	8.2	3.5	44.50	5.3	217.0	80.0	3.0	34.40	5,000
DSH-092	92	88.5	-0.35	3.15	1.75	3.00	-0.08	86.5		9.0	8.4	3.5	46.00	5.3	217.0	82.0	3.5	29.60	5,000
DSH-095	95	91.5	-0.35	3.15	1.75	3.00	-0.08	89.5		9.4	8.6	3.5	49.00	5.3	212.0	85.0	3.5	29.20	5,000
DSH-097	97	93.5	-0.35	3.15	1.75	3.00	-0.08	91.5		9.4	8.8	3.5	50.20	5.3	211.0	87.0	3.5	29.40	4,000
	98	94.5	-0.35	3.15	1.75	3.00	-0.08	91.5		9.4	8.8	3.5	50.20	5.3	208.0	88.0	3.5	29.00	4,000
DSH-100	100	96.5	-0.35	3.15	1.75	3.00	-0.08	94.5		9.6	9.0	3.5	53.70	5.3	206.0	90.0	3.5	29.00	4,000
DSH-102	102	98.0	-0.54	4.15	2.00	4.00	-0.10	95.0		9.7	9.2	3.5	78.00	6.0	482.0	104.0	3.5	68.50	5,000
DSH-105	105	101.0	-0.54	4.15	2.00	4.00	-0.10	98.0		9.9	9.9	3.5	80.00	6.0	471.0	107.0	3.5	67.70	5,000
DSH-107	107	103.0	-0.54	4.15	2.00	4.00	-0.10	100.0	+0.54/	10.0	9.5	3.5	81.00	6.0	465.0	110.0	3.5	67.30	5,000
	108	104.0	-0.54	4.15	2.00	4.00	-0.10	100.0	-1.30	10.0	9.5	3.5	81.00	6.0	459.0	111.0	3.5	66.30	4,000
DSH-110	110	106.0	-0.54	4.15	2.00	4.00	-0.10	103.0		10.1	9.6	3.5	82.00	6.0	457.0	113.0	3.5	66.90	4,000
DSH-112	112	108.0	-0.54	4.15	2.00	4.00	-0.10	105.0		10.3	9.7	3.5	83.00	6.0	451.0	115.0	3.5	66.60	4,000
DSH-115	115	111.0	-0.54	4.15	2.00	4.00	-0.10	108.0		10.6	9.8	3.5	84.00	6.0	438.0	118.0	3.5	65.50	4,000
DSH-117	117	113.0	-0.54	4.15	2.00	4.00	-0.10	110.0		10.8	10.0	3.5	85.00	6.0	437.0	120.0	3.5	65.60	4,000
	118	114.0	-0.54	4.15	2.00	4.00	-0.10	110.0		10.8	10.0	3.5	85.00	6.0	430.0	121.0	3.5	64.80	4,000
DSH-120	120	116.0	-0.54	4.15	2.00	4.00	-0.10	113.0		11.0	10.2	3.5	86.00	6.0	424.0	123.0	3.5	64.50	4,000
DSH-122	122	118.0	-0.54	4.15	2.00	4.00	-0.10	115.0		11.2	10.3	4.0	88.00	6.0	418.0	125.0	4.0	56.60	4,000
DSH-125	125	121.0	-0.63	4.15	2.00	4.00	-0.10	118.0		11.4	10.4	4.0	90.00	6.0	411.0	128.0	4.0	56.50	3,000
DSH-127	127	123.0	-0.63	4.15	2.00	4.00	-0.10	120.0		11.4	10.5	4.0	95.00	6.0	407.0	130.0	4.0	56.10	3,000
	128	124.0	-0.63	4.15	2.00	4.00	-0.10	120.0		11.4	10.5	4.0	95.00	6.0	401.0	131.0	4.0	55.60	3,000

TO ORDER DIFFERENT MATERIAL/FINISHES,  
APPEND SUFFIX WITH YOUR CHOICE:  
"NONE" • -SS • -ZD • -Z3

All dimensions in millimeters.  
For hardness specifications, see page 88.

<sup>2</sup> For plated rings add 0.05 mm to the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 mm less than the listed groove width (W) minimum.



INSTALLATION  
TOOLS AVAILABLE,  
SEE PAGE 248

## DIN 471

## EXTERNAL – BASIC METRIC

### SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-SS = STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.  
More finishes available, see page 22 for a complete listing.



Item #	Shaft Dia. (mm)	Groove Size			Ring Size & Weight						Supplementary Data								
		Diameter		Width	Depth	Thickness <sup>2</sup>		Free Diameter		Lug Ht.	Max. Sect.	Hole Dia.	Weight	Edge Margin	Thrust Load Ring	Thrust Load Groove	Allowable Radii/ Chamfers	Max. Load w/R Max. or Ch Max.	RPM Limits
		D <sub>s</sub>	D <sub>g</sub>	Tol.	W Min.	d	T	Tol.	D <sub>f</sub>	Tol.	H Max.	S Max.	R Min.	kg/ 1,000	Y Min.	P <sub>r</sub> kN	P <sub>g</sub> kN	R/Ch Max.	P <sub>r</sub> kN
DSH-130	130	126.0	-0.63	4.15	2.00	4.00	-0.10	123.0	+0.63/ -1.50	11.6	10.7	4.0	100.0	6.0	395.0	134.0	4.0	55.20	3,000
DSH-132	132	128.0	-0.63	4.15	2.00	4.00	-0.10	125.0		11.7	10.8	4.0	103.0	6.0	396.0	136.0	4.0	55.60	3,000
DSH-135	135	131.0	-0.63	4.15	2.00	4.00	-0.10	128.0		11.8	11.0	4.0	104.0	6.0	389.0	139.0	4.0	55.40	3,000
DSH-137	137	133.0	-0.63	4.15	2.00	4.00	-0.10	130.0		11.9	11.0	4.0	107.0	6.0	380.0	141.0	4.0	54.40	3,000
	138	134.0	-0.63	4.15	2.00	4.00	-0.10	130.0		11.9	11.0	4.0	107.0	6.0	381.0	142.0	4.0	54.70	3,000
DSH-140	140	136.0	-0.63	4.15	2.00	4.00	-0.10	133.0		12.0	11.2	4.0	110.0	6.0	376.0	144.0	4.0	54.40	3,000
DSH-142	142	138.0	-0.63	4.15	2.00	4.00	-0.10	135.0		12.1	11.3	4.0	112.0	6.0	370.0	146.0	4.0	54.00	3,000
DSH-145	145	141.0	-0.63	4.15	2.00	4.00	-0.10	138.0		12.2	11.5	4.0	115.0	6.0	367.0	149.0	4.0	53.80	3,000
DSH-147	147	143.0	-0.63	4.15	2.00	4.00	-0.10	140.0		12.3	11.6	4.0	116.0	6.0	361.0	151.0	4.0	53.50	3,000
	148	144.0	-0.63	4.15	2.00	4.00	-0.10	140.0		12.3	11.6	4.0	116.0	6.0	357.0	152.0	4.0	53.00	2,000
DSH-150	150	145.0	-0.63	4.15	2.50	4.00	-0.10	142.0		13.0	11.8	4.0	120.0	7.5	357.0	193.0	4.0	53.40	2,000
DSH-152	152	147.0	-0.63	4.15	2.50	4.00	-0.10	143.0		13.0	11.9	4.0	128.0	7.5	356.0	195.0	4.0	53.10	3,000
DSH-155	155	150.0	-0.63	4.15	2.50	4.00	-0.10	146.0		13.0	12.0	4.0	135.0	7.5	352.0	199.0	4.0	52.60	3,000
DSH-157	157	152.0	-0.63	4.15	2.50	4.00	-0.10	148.0		13.1	12.0	4.0	140.0	7.5	352.0	202.0	4.0	52.50	3,000
	158	153.0	-0.63	4.15	2.50	4.00	-0.10	148.0		13.1	12.0	4.0	140.0	7.5	353.0	203.0	4.0	52.70	3,000
DSH-160	160	155.0	-0.63	4.15	2.50	4.00	-0.10	151.0	+0.63/ -1.50	13.3	12.2	4.0	150.0	7.5	349.0	206.0	4.0	52.20	3,000
DSH-162	162	157.0	-0.63	4.15	2.50	4.00	-0.10	152.5		13.3	12.3	4.0	155.0	7.5	348.0	208.0	5.0	41.70	3,000
DSH-165	165	160.0	-0.63	4.15	2.50	4.00	-0.10	155.5		13.5	12.5	4.0	160.0	7.5	345.0	212.0	5.0	41.40	3,000
DSH-167	167	162.0	-0.63	4.15	2.50	4.00	-0.10	157.5		13.5	12.9	4.0	163.0	7.5	354.0	215.0	5.0	42.50	3,000
	168	163.0	-0.63	4.15	2.50	4.00	-0.10	157.5		13.5	12.9	4.0	163.0	7.5	353.0	216.0	5.0	42.40	2,000
DSH-170	170	165.0	-0.63	4.15	2.50	4.00	-0.10	160.5		13.5	12.9	4.0	170.0	7.5	349.0	219.0	5.0	41.90	2,000
	172	167.0	-0.63	4.15	2.50	4.00	-0.10	160.5		13.5	12.9	4.0	170.0	7.5	344.0	221.0	5.0	41.30	2,000
DSH-175	175	170.0	-0.63	4.15	2.50	4.00	-0.10	165.5		13.5	12.9	4.0	180.0	7.5	340.0	225.0	5.0	40.70	2,000
DSH-177	177	172.0	-0.63	4.15	2.50	4.00	-0.10	167.5		14.2	13.5	4.0	183.0	7.5	335.0	228.0	5.0	40.20	2,000
	178	173.0	-0.63	4.15	2.50	4.00	-0.10	167.5		14.2	13.5	4.0	183.0	7.5	349.0	229.0	5.0	42.00	2,000
DSH-180	180	175.0	-0.63	4.15	2.50	4.00	-0.10	170.5		14.2	13.5	4.0	190.0	7.5	345.0	232.0	5.0	41.40	2,000
	182	177.0	-0.63	4.15	2.50	4.00	-0.10	170.5		14.2	13.5	4.0	190.0	7.5	341.0	235.0	5.0	41.00	2,000
DSH-185	185	180.0	-0.63	4.15	2.50	4.00	-0.10	175.5		14.2	13.5	4.0	200.0	7.5	336.0	238.0	5.0	40.40	2,000
DSH-187	187	182.0	-0.72	4.15	2.50	4.00	-0.10	177.5		14.2	14.0	4.0	203.0	7.5	338.0	241.0	5.0	40.50	2,000
	188	183.0	-0.72	4.15	2.50	4.00	-0.10	177.5		14.2	14.0	4.0	203.0	7.5	337.0	242.0	5.0	40.60	2,000
DSH-190	190	185.0	-0.72	4.15	2.50	4.00	-0.10	180.5	14.2	14.0	4.0	210.0	7.5	333.0	245.0	5.0	40.00	2,000	
	192	187.0	-0.72	4.15	2.50	4.00	-0.10	180.5	14.2	14.0	4.0	210.0	7.5	330.0	248.0	5.0	39.60	2,000	
DSH-195	195	190.0	-0.72	4.15	2.50	4.00	-0.10	185.5	14.2	14.0	4.0	220.0	7.5	325.0	251.0	5.0	39.00	2,000	
DSH-197	197	192.0	-0.72	4.15	2.50	4.00	-0.10	187.5	+0.72/ -1.70	14.2	14.0	4.0	223.0	7.5	322.0	254.0	5.0	38.60	2,000
	198	193.0	-0.72	4.15	2.50	4.00	-0.10	187.5		14.2	14.0	4.0	223.0	7.5	322.0	255.0	5.0	38.70	2,000
DSH-200	200	195.0	-0.72	4.15	2.50	4.00	-0.10	190.5		14.2	14.0	4.0	230.0	7.5	319.0	258.0	5.0	38.30	2,000
DSH-202	202	196.0	-0.72	5.15	3.00	5.00	-0.12	190.0		14.2	14.0	4.0	235.0	9.0	624.0	312.0	6.0	62.50	2,000
DSH-205	205	199.0	-0.72	5.15	3.00	5.00	-0.12	193.0		14.2	14.0	4.0	243.0	9.0	611.0	317.0	6.0	61.30	2,000

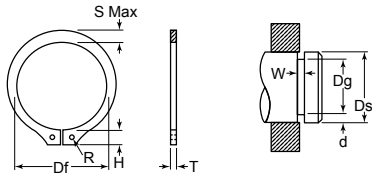
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## EXTERNAL – BASIC METRIC

DIN 471



### HOW TO IDENTIFY

1. Verify external design and appearance.
2. Measure the shaft diameter (Ds).
3. Measure the ring cross section (S Max).
4. Measure the ring thickness (T).
5. Find the part in the chart.

Item #	Shaft Dia. (mm)	Groove Size					Ring Size & Weight							Supplementary Data					
		Diameter		Width	Depth	Thickness <sup>2</sup>	Free Diameter		Lug Ht.	Max. Sect.	Hole Dia.	Weight	Edge Margin	Thrust Load Ring	Thrust Load Groove	Allowable Radii/Chamfers	Max. Load w/R Max. or Ch Max.	RPM Limits	
		Ds	Dg				Tol.	W Min.											d
DSH-205	207	201.0	-0.72	5.15	3.00	5.00	-0.12	193.0		14.2	14.0	4.0	243.0	9.0	608.0	320.0	6.0	60.90	2,000
	208	202.0	-0.72	5.15	3.00	5.00	-0.12	193.0		14.2	14.0	4.0	243.0	9.0	605.0	321.0	6.0	60.50	2,000
DSH-210	210	204.0	-0.72	5.15	3.00	5.00	-0.12	198.0		14.2	14.0	4.0	248.0	9.0	598.0	325.0	6.0	59.90	2,000
	212	206.0	-0.72	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	2,000
DSH-215	215	209.0	-0.72	5.15	3.00	5.00	-0.12	203.0		14.2	14.0	4.0	260.0	9.0	585.0	332.0	6.0	58.50	2,000
	217	211.0	-0.72	5.15	3.00	5.00	-0.12	203.0		14.2	14.0	4.0	260.0	9.0	580.0	336.0	6.0	58.10	2,000
DSH-215	218	212.0	-0.72	5.15	3.00	5.00	-0.12	203.0		14.2	14.0	4.0	260.0	9.0	577.0	337.0	6.0	57.80	2,000
DSH-220	220	214.0	-0.72	5.15	3.00	5.00	-0.12	208.0		14.2	14.0	4.0	265.0	9.0	572.0	340.0	6.0	57.30	2,000
DSH-220	222	216.0	-0.72	5.15	3.00	5.00	-0.12	208.0		14.2	14.0	4.0	265.0	9.0	567.0	343.0	6.0	56.80	2,000
DSH-225	225	219.0	-0.72	5.15	3.00	5.00	-0.12	213.0		14.2	14.0	4.0	280.0	9.0	559.0	349.0	6.0	56.00	2,000
	227	221.0	-0.72	5.15	3.00	5.00	-0.12	213.0		14.2	14.0	4.0	280.0	9.0	555.0	351.0	6.0	55.50	1,000
DSH-225	228	222.0	-0.72	5.15	3.00	5.00	-0.12	213.0		14.2	14.0	4.0	280.0	9.0	552.0	353.0	6.0	55.40	1,000
DSH-230	230	224.0	-0.72	5.15	3.00	5.00	-0.12	218.0		14.2	14.0	4.0	290.0	9.0	548.0	356.0	6.0	55.00	1,000
	232	226.0	-0.72	5.15	3.00	5.00	-0.12	218.0		14.2	14.0	4.0	290.0	9.0	543.0	359.0	6.0	54.50	1,000
DSH-235	235	229.0	-0.72	5.15	3.00	5.00	-0.12	223.0		14.2	14.0	4.0	305.0	9.0	537.0	364.0	6.0	53.80	1,000
	237	231.0	-0.72	5.15	3.00	5.00	-0.12	223.0	+0.72/	14.2	14.0	4.0	305.0	9.0	532.0	367.0	6.0	53.40	1,000
	238	232.0	-0.72	5.15	3.00	5.00	-0.12	223.0	-1.70	14.2	14.0	4.0	305.0	9.0	530.0	369.0	6.0	53.00	1,000
DSH-240	240	234.0	-0.72	5.15	3.00	5.00	-0.12	228.0		14.2	14.0	4.0	310.0	9.0	530.0	372.0	6.0	53.00	1,000
	242	236.0	-0.72	5.15	3.00	5.00	-0.12	228.0		14.2	14.0	4.0	310.0	9.0	520.0	375.0	6.0	52.20	1,000
DSH-245	245	239.0	-0.72	5.15	3.00	5.00	-0.12	233.0		14.2	14.0	4.0	325.0	9.0	515.0	380.0	6.0	51.50	1,000
	247	241.0	-0.72	5.15	3.00	5.00	-0.12	233.0		14.2	14.0	4.0	325.0	9.0	511.0	383.0	6.0	51.20	1,000
	248	242.0	-0.72	5.15	3.00	5.00	-0.12	233.0		14.2	14.0	4.0	325.0	9.0	508.0	385.0	6.0	50.90	1,000
DSH-250	250	244.0	-0.72	5.15	3.00	5.00	-0.12	238.0		14.2	14.0	4.0	335.0	9.0	504.0	388.0	6.0	50.50	1,000
	252	244.0	-0.72	5.15	4.00	5.00	-0.12	238.0		16.2	16.0	5.0	335.0	12.0	563.0	519.0	6.0	56.40	1,000
DSH-255	255	247.0	-0.72	5.15	4.00	5.00	-0.12	240.0		16.2	16.0	5.0	348.0	12.0	557.0	525.0	6.0	55.70	1,000
	257	249.0	-0.72	5.15	4.00	5.00	-0.12	240.0		16.2	16.0	5.0	348.0	12.0	551.0	529.0	6.0	55.20	1,000
	258	250.0	-0.72	5.15	4.00	5.00	-0.12	240.0		16.2	16.0	5.0	348.0	12.0	550.0	531.0	6.0	55.10	1,000
DSH-260	260	252.0	-0.81	5.15	4.00	5.00	-0.12	245.0		16.2	16.0	5.0	355.0	12.0	540.0	535.0	6.0	54.60	1,000
	262	254.0	-0.81	5.15	4.00	5.00	-0.12	245.0		16.2	16.0	5.0	355.0	12.0	542.0	540.0	6.0	54.40	1,000
DSH-265	265	257.0	-0.81	5.15	4.00	5.00	-0.12	250.0		16.2	16.0	5.0	370.0	12.0	536.0	546.0	6.0	53.70	1,000
	267	259.0	-0.81	5.15	4.00	5.00	-0.12	250.0		16.2	16.0	5.0	370.0	12.0	532.0	550.0	6.0	53.30	1,000
	268	260.0	-0.81	5.15	4.00	5.00	-0.12	250.0		16.2	16.0	5.0	370.0	12.0	529.0	553.0	6.0	53.00	1,000

TO ORDER DIFFERENT MATERIAL/FINISHES,  
APPEND SUFFIX WITH YOUR CHOICE:  
"NONE" • -SS • -ZD • -Z3

All dimensions in millimeters.  
For hardness specifications, see page 88.

<sup>2</sup> For plated rings add 0.05 mm to the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 mm less than the listed groove width (W) minimum.

STACKED OPTIONS  
AVAILABLE, SEE  
HUYETT.COM FOR  
MORE DETAILS

## DIN 471

## EXTERNAL – BASIC METRIC

### SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-SS = STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.  
More finishes available, see page 22 for a complete listing.



Item #	Shaft Dia. (mm)	Groove Size				Ring Size & Weight						Supplementary Data							
		Diameter		Width	Depth	Thickness <sup>2</sup>		Free Diameter		Lug Ht.	Max. Sect.	Hole Dia.	Weight	Edge Margin	Thrust Load Ring	Thrust Load Groove	Allowable Radii/ Chamfers	Max. Load w/R Max. or Ch Max.	RPM Limits
		D <sub>s</sub>	D <sub>g</sub>	Tol.	W Min.	d	T	Tol.	D <sub>f</sub>	Tol.	H Max.	S Max.	R Min.	kg/ 1,000	Y Min.	P <sub>r</sub> kN	P <sub>g</sub> kN	R/Ch Max.	P <sub>r</sub> kN
DSH-270	270	262.0	-0.81	5.15	4.00	5.00	-0.12	255.0	+0.81/ -2.00	16.2	16.0	5.0	375.0	12.0	525.0	556.0	6.0	52.50	1,000
	272	264.0	-0.81	5.15	4.00	5.00	-0.12	255.0		16.2	16.0	5.0	375.0	12.0	522.0	560.0	6.0	52.00	1,000
DSH-275	275	267.0	-0.81	5.15	4.00	5.00	-0.12	260.0		16.2	16.0	5.0	390.0	12.0	516.0	566.0	6.0	51.00	1,000
	277	269.0	-0.81	5.15	4.00	5.00	-0.12	260.0		16.2	16.0	5.0	390.0	12.0	513.0	571.0	6.0	51.00	1,000
DSH-280	278	270.0	-0.81	5.15	4.00	5.00	-0.12	260.0		16.2	16.0	5.0	390.0	12.0	510.0	574.0	6.0	51.00	1,000
	280	272.0	-0.81	5.15	4.00	5.00	-0.12	265.0		16.2	16.0	5.0	398.0	12.0	508.0	576.0	6.0	50.00	1,000
DSH-285	282	274.0	-0.81	5.15	4.00	5.00	-0.12	265.0		16.2	16.0	5.0	398.0	12.0	503.0	580.0	6.0	50.00	1,000
	285	277.0	-0.81	5.15	4.00	5.00	-0.12	270.0		16.2	16.0	5.0	410.0	12.0	499.0	587.0	6.0	50.00	1,000
DSH-290	287	279.0	-0.81	5.15	4.00	5.00	-0.12	270.0		16.2	16.0	5.0	410.0	12.0	494.0	591.0	6.0	49.00	1,000
	288	280.0	-0.81	5.15	4.00	5.00	-0.12	270.0		16.2	16.0	5.0	410.0	12.0	493.0	594.0	6.0	49.00	1,000
DSH-295	290	282.0	-0.81	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	1,000
	292	284.0	-0.81	5.15	4.00	5.00	-0.12	275.0		16.2	16.0	5.0	418.0	12.0	487.0	603.0	6.0	48.00	1,000
DSH-300	295	287.0	-0.81	5.15	4.00	5.00	-0.12	280.0		16.2	16.0	5.0	430.0	12.0	481.0	609.0	6.0	48.00	1,000
	297	289.0	-0.81	5.15	4.00	5.00	-0.12	280.0		16.2	16.0	5.0	430.0	12.0	479.0	613.0	6.0	48.00	1,000
DSH-305	298	290.0	-0.81	5.15	4.00	5.00	-0.12	280.0		16.2	16.0	5.0	430.0	12.0	476.0	615.0	6.0	47.00	1,000
DSH-310	300	292.0	-0.81	5.15	4.00	5.00	-0.12	285.0		16.2	16.0	5.0	440.0	12.0	475.0	619.0	6.0	47.00	1,000
DSH-315	305	295.0	-0.81	6.20	5.00	6.00	-0.15	288.0		20.2	20.0	6.0	738.0	15.0	1036.0	785.0	7.0	89.00	1,000
DSH-320	310	300.0	-0.81	6.20	5.00	6.00	-0.15	293.0		20.2	20.0	6.0	750.0	15.0	1016.0	796.0	7.0	87.00	1,000
DSH-325	315	305.0	-0.81	6.20	5.00	6.00	-0.15	298.0		20.2	20.0	6.0	760.0	15.0	1007.0	811.0	7.0	86.00	1,000
DSH-330	320	310.0	-0.81	6.20	5.00	6.00	-0.15	303.0		20.2	20.0	6.0	770.0	15.0	988.0	825.0	7.0	85.00	1,000
DSH-335	325	315.0	-0.81	6.20	5.00	6.00	-0.15	308.0	20.2	20.0	6.0	787.0	15.0	975.0	837.0	7.0	83.00	1,000	
DSH-340	330	320.0	-0.89	6.20	5.00	6.00	-0.15	313.0	20.2	20.0	6.0	800.0	15.0	958.0	850.0	7.0	82.00	1,000	
DSH-345	335	325.0	-0.89	6.20	5.00	6.00	-0.15	318.0	20.2	20.0	6.0	826.0	15.0	945.0	864.0	7.0	81.00	1,000	
DSH-350	340	330.0	-0.89	6.20	5.00	6.00	-0.15	323.0	20.2	20.0	6.0	840.0	15.0	932.0	876.0	7.0	80.00	1,000	
DSH-355	345	335.0	-0.89	6.20	5.00	6.00	-0.15	328.0	20.2	20.0	6.0	845.0	15.0	917.0	890.0	7.0	79.00	1,000	
DSH-360	350	340.0	-0.89	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	1,000	
DSH-365	355	345.0	-0.89	6.20	5.00	6.00	-0.15	338.0	20.2	20.0	6.0	865.0	15.0	894.0	916.0	7.0	76.00	1,000	
DSH-370	360	350.0	-0.89	6.20	5.00	6.00	-0.15	343.0	20.2	20.0	6.0	880.0	15.0	880.0	928.0	7.0	75.00	1,000	
DSH-375	365	355.0	-0.89	6.20	5.00	6.00	-0.15	348.0	20.2	20.0	6.0	885.0	15.0	868.0	942.0	7.0	74.00	1,000	
DSH-380	370	360.0	-0.89	6.20	5.00	6.00	-0.15	353.0	20.2	20.0	6.0	890.0	15.0	856.0	955.0	7.0	73.00	1,000	
DSH-385	375	365.0	-0.89	6.20	5.00	6.00	-0.15	358.0	20.2	20.0	6.0	910.0	15.0	847.0	968.0	7.0	72.00	1,000	
DSH-390	380	370.0	-0.89	6.20	5.00	6.00	-0.15	363.0	20.2	20.0	6.0	930.0	15.0	833.0	980.0	7.0	71.00	1,000	
DSH-395	385	375.0	-0.89	6.20	5.00	6.00	-0.15	368.0	20.2	20.0	6.0	940.0	15.0	823.0	994.0	7.0	70.00	1,000	
DSH-400	390	380.0	-0.89	6.20	5.00	6.00	-0.15	373.0	20.2	20.0	6.0	950.0	15.0	814.0	1008.0	7.0	70.00	1,000	
DSH-410	395	385.0	-0.89	6.20	5.00	6.00	-0.15	378.0	20.2	20.0	6.0	990.0	15.0	803.0	1021.0	7.0	69.00	1,000	
DSH-420	400	390.0	-0.89	6.20	5.00	6.00	-0.15	383.0	20.2	20.0	6.0	1040.0	15.0	793.0	1033.0	7.0	69.00	1,000	
DSH-420	410	398.0	-0.89	7.20	6.00	7.00	-0.15	390.0	26.2	26.0	6.0	1320.0	18.0	1616.0	1269.0	7.0	139.0	1,000	
DSH-420	420	408.0	-1.00	7.20	6.00	7.00	-0.15	400.0	26.2	26.0	6.0	1360.0	18.0	1569.0	1300.0	7.0	135.0	1,000	

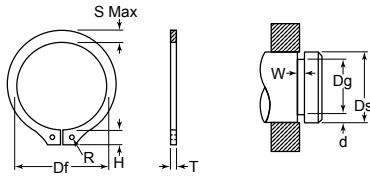
# AXIALLY INSTALLED

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## EXTERNAL – BASIC METRIC

DIN 471



### HOW TO IDENTIFY

1. Verify external design and appearance.
2. Measure the shaft diameter (Ds).
3. Measure the ring cross section (S Max).
4. Measure the ring thickness (T).
5. Find the part in the chart.

Item #	Shaft Dia. (mm)	Groove Size						Ring Size & Weight						Supplementary Data					
		Diameter		Width	Depth	Thickness <sup>2</sup>		Free Diameter		Lug Ht.	Max. Sect.	Hole Dia.	Weight	Edge Margin	Thrust Load Ring	Thrust Load Groove	Allowable Radii/ Chamfers	Max. Load w/R Max. or Ch Max.	RPM Limits
		Ds	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Max.	R Min.	kg/ 1,000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DSH-430	430	418.0	-1.00	7.20	6.00	7.00	-0.15	410.0	+1.00/ -2.00	26.2	26.0	6.0	1390.0	18.0	1540.0	1332.0	7.0	132.0	1,000
DSH-440	440	428.0	-1.00	7.20	6.00	7.00	-0.15	420.0		26.2	26.0	6.0	1420.0	18.0	1500.0	1363.0	7.0	129.0	1,000
DSH-450	450	438.0	-1.00	7.20	6.00	7.00	-0.15	430.0		26.2	26.0	6.0	1450.0	18.0	1472.0	1393.0	7.0	126.0	1,000
DSH-460	460	448.0	-1.00	7.20	6.00	7.00	-0.15	440.0		26.2	26.0	6.0	1520.0	18.0	1443.0	1426.0	7.0	124.0	1,000
DSH-470	470	458.0	-1.00	7.20	6.00	7.00	-0.15	450.0		26.2	26.0	6.0	1590.0	18.0	1413.0	1457.0	7.0	121.0	1,000
DSH-480	480	468.0	-1.00	7.20	6.00	7.00	-0.15	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	-1.00	7.20	6.00	7.00	-0.15	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	-1.00	7.20	6.00	7.00	-0.15	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	-1.00	8.20	7.00	8.00	-0.15	485.0		26.2	26.0	6.0	2300.0	21.0	1952.0	1843.0	7.0	167.0	1,000
DSH-520	520	506.0	-1.00	8.20	7.00	8.00	-0.15	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	-1.00	8.20	7.00	8.00	-0.15	505.0	+1.50/ -3.00	26.2	26.0	6.0	2400.0	21.0	1878.0	1916.0	7.0	161.0	500
DSH-540	540	526.0	-1.00	8.20	7.00	8.00	-0.15	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	-1.00	8.20	7.00	8.00	-0.15	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	-1.00	8.20	7.00	8.00	-0.15	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	-1.00	8.20	7.00	8.00	-0.15	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	-1.00	8.20	7.00	8.00	-0.15	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	-1.00	8.20	7.00	8.00	-0.15	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	-1.00	8.20	7.00	8.00	-0.15	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	-1.00	9.30	8.00	9.00	-0.2	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	-1.00	9.30	8.00	9.00	-0.2	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	-1.00	9.30	9.00	9.00	-0.2	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	-1.00	9.30	9.00	9.00	-0.2	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	-1.00	9.30	10.00	9.00	-0.2	810.0	+2.00/ -4.00	34.0	34.0	9.0	6030.0	30.0	2166.0	4400.0	7.0	183.0	300
DSH-900†	900	880.0	-1.00	9.30	10.00	9.00	-0.2	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	-1.00	9.30	11.00	9.00	-0.2	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	-1.00	9.30	11.00	9.00	-0.2	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.

<sup>2</sup> For plated rings add 0.05 mm to the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 mm less than the listed groove width (W) minimum.

† These parts are made with a constant section width (NO taper).

**STACKED OPTIONS AVAILABLE, SEE HUYETT.COM FOR MORE DETAILS**

### HARDNESS RANGES: DSH RINGS

Material	Size Range	Hardness				
		HV	HRC	Lower Scale*	15N	30N
(blank) Carbon Steel, (SAE 1060-1090)	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	–	–	–
-SS Stainless Steel, (PH 15-7 Mo)	3 & 4	435 – 530	44 – 51	82.5 – 86 HR30N**	–	–
	5 – 17	435 – 530	44 – 51	63 – 69.5 HRN	–	–
	18 – 1000	435 – 530	44 – 51	–	–	–
-SS Stainless Steel, (DIN 1.4122 X39CrMo17)	All	470 – 580	47 – 54	–	84 – 87.5	66 – 72

\* Where applicable

\*\* Hardness cannot be checked with any degree of accuracy directly on these rings.

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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