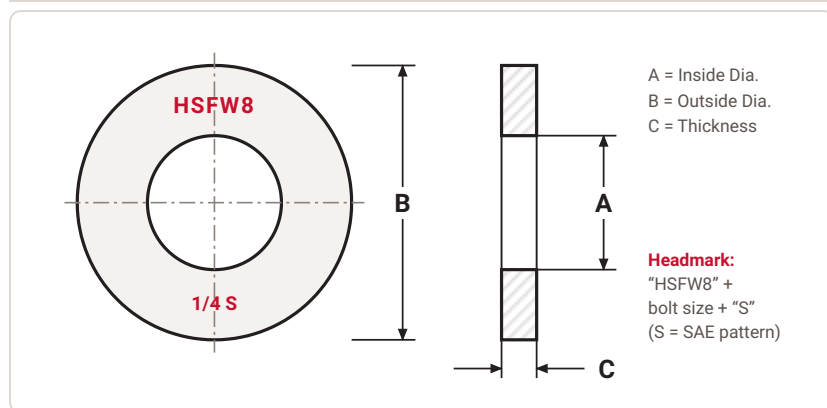




PRODUCT DATA SHEET

Grade 8 Extra Heavy SAE Flat Washers – Yellow Zinc

1.0 Dimensions Inches



Nom. Bolt Size	Inside Diameter (A)			Outside Diameter (B)			Thickness (C)		Approx. Wt. per 100 (lb)	Nutty Stock #
	Basic	+Tol	-Tol	Basic	+Tol	-Tol	Max	Min		
1/4	0.281	0.015	0.005	0.625	0.015	0.005	0.110	0.090	0.69	HSFW814
5/16	0.344	0.015	0.005	0.688	0.015	0.007	0.110	0.090	0.79	HSFW8516
3/8	0.406	0.015	0.005	0.812	0.015	0.007	0.126	0.110	1.30	HSFW838
7/16	0.469	0.015	0.005	0.921	0.015	0.007	0.126	0.110	1.65	HSFW8716
1/2	0.531	0.015	0.005	1.062	0.030	0.007	0.188	0.156	3.24	HSFW812
9/16	0.594	0.015	0.005	1.156	0.030	0.007	0.188	0.156	3.77	HSFW8916
5/8	0.656	0.030	0.007	1.312	0.030	0.007	0.195	0.170	5.25	HSFW858
3/4	0.812	0.030	0.007	1.469	0.030	0.007	0.195	0.170	6.09	HSFW834
7/8	0.938	0.030	0.007	1.750	0.030	0.007	0.265	0.235	12.15	HSFW878
1"	1.062	0.030	0.007	2.000	0.030	0.007	0.265	0.235	15.99	HSFW81

Weights are calculated for steel at mid-thickness and are approximate. Drawing not to scale.

2.0 Material & Properties

Material	1035 carbon steel or better
Hardness	Through hardened, 38 – 45 HRC
Mech. Properties	Per ASTM F436
Headmark	"HSFW8" and bolt diameter + "S" (e.g. 1/4 S)
Finish	Zinc yellow (Cr+6)
Edges	Free of burrs

3.0 Application

- Extra-thick, through-hardened SAE pattern washers for use under Grade 8 cap screws, bolts and nuts – they resist dishing and galling under high clamp loads.
- SAE pattern: smaller I.D. and O.D. than USS washers for a close fit around the bolt, with up to roughly twice the thickness of a standard SAE washer.
- Common in heavy equipment, truck, trailer, agricultural and machinery assemblies; yellow zinc matches Grade 8 yellow zinc cap screws and nuts.

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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