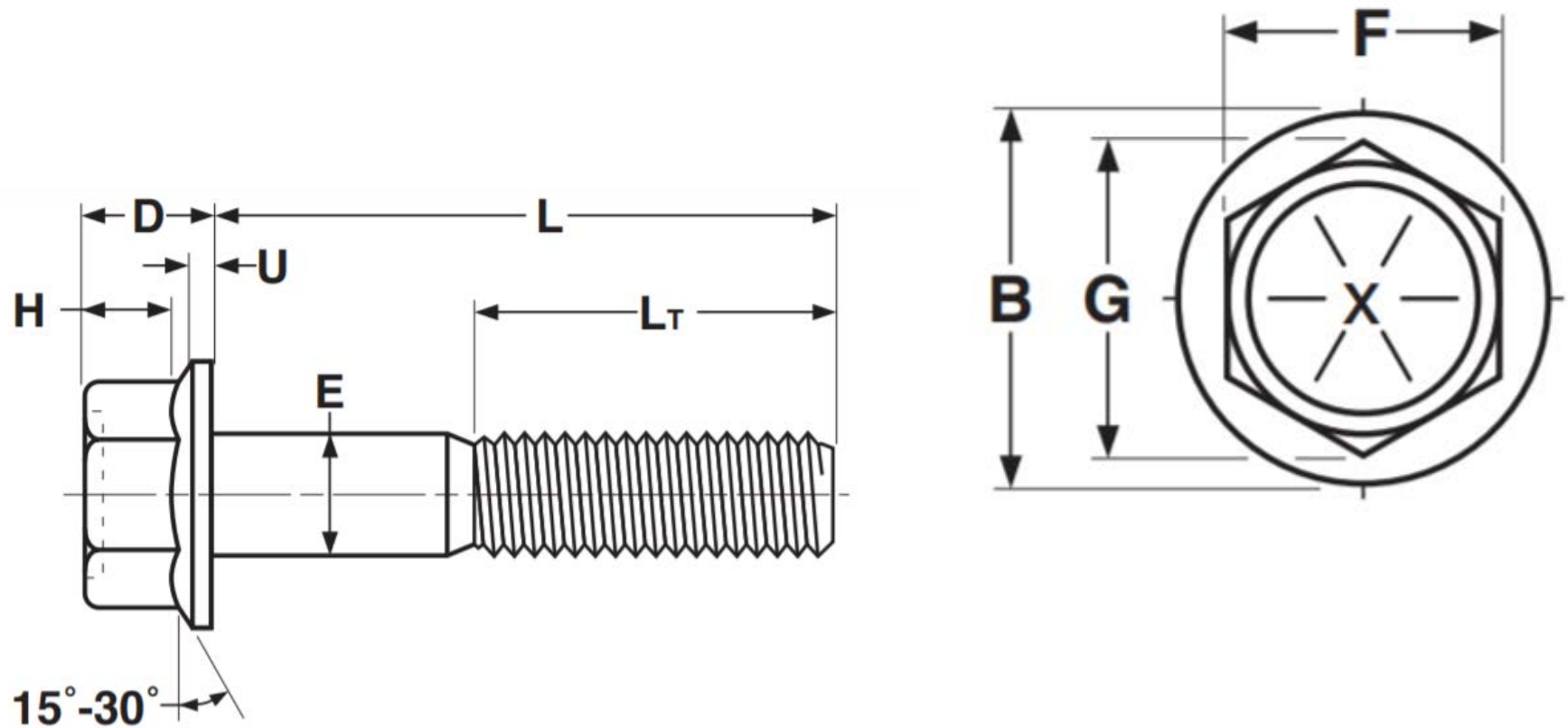




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FLANGE BOLTS - 18-8 STAINLESS STEEL





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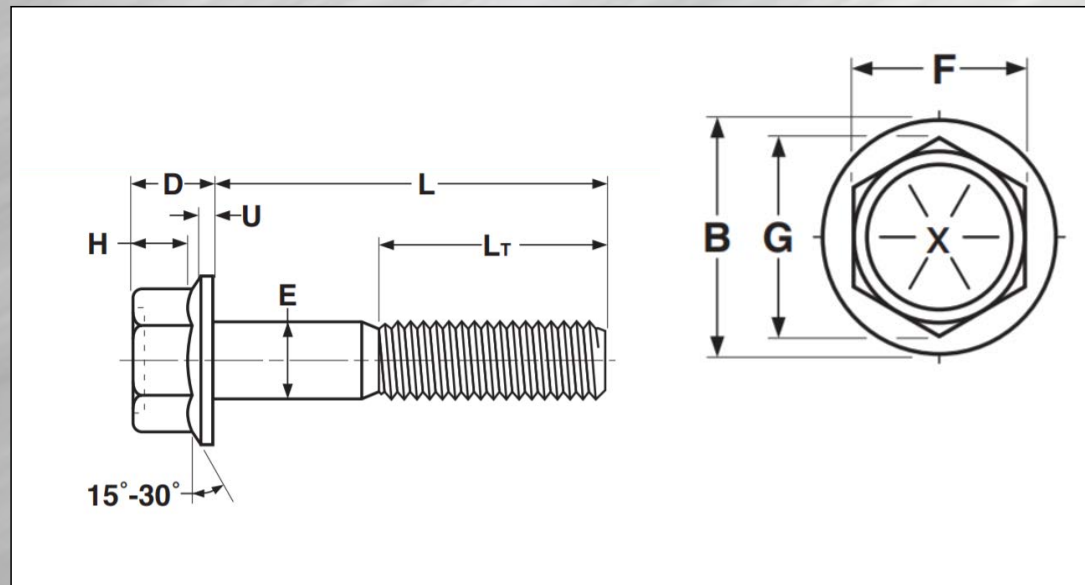
FLANGE BOLTS - 18-8 STAINLESS STEEL

Nominal Size	E Bolt Diameter		F Width Across Flats		G Width Across Corners		B Flange Diam.	U Flange Thickness	D Head Height	H Hex Height	L Thread Length	Gr. 8 Alloy Bolts Only		
	Max.	Min.	Basic	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Basic	Tensile Strength, Lbs.	Proof Load Lbs.
1/4	0.2500	0.2450	3/8	0.3750	0.367	0.433	0.409	0.56	0.04	0.28	0.17	0.750	4750	3800
5/16	0.3125	0.3065	1/2	0.5000	0.489	0.577	0.548	0.68	0.05	0.32	0.21	0.875	7850	6300
3/8	0.3750	0.3690	9/16	0.5625	0.551	0.650	0.618	0.81	0.06	0.39	0.25	1.00	11600	9300
7/16	0.4375	0.4305	5/8	0.6250	0.612	0.722	0.685	0.93	0.07	0.46	0.30	1.125	15900	12800
1/2	0.5000	0.4930	3/4	0.7500	0.736	0.866	0.825	1.07	0.08	0.51	0.34	1.250	21300	17000
5/8	0.6250	0.6170	15/16	0.9375	0.922	1.083	1.034	1.33	0.10	0.62	0.42	1.500	33900	27100
3/4	0.75	0.7410	1-1/8	1.1250	1.100	1.299	1.234	1.59	0.11	0.73	0.51	1.750	50100	40100



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Tolerance on Length	Nominal Bolt Size	Nominal Bolt Length		
		Up to 1in., incl.	Over 1 in. to 2-1/2 in. incl.	Over 2-1/2 in. to 4 in., incl.
	1/4 thru 3/8	-0.03	-0.04	-0.06
	7/16 and 1/2	-0.03	-0.06	-0.08
	5/8 and 3/4	-0.03	-0.08	-0.10



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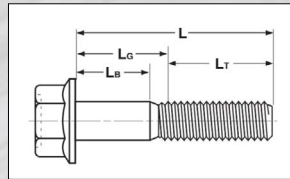
FLANGE BOLTS - 18-8 STAINLESS STEEL

Description	A one-piece hex washer head bolt with a flat bearing surface, made of high-alloy steel. Indented top of the head is optional.	A one-piece hex washer head bolt with a flat bearing surface, made of stainless steel. Indented top of the head is optional.
Applications / Advantages	For use on truck frames. The flange eliminates washers and helps compensate for a misaligned hole. Use with a Grade GT lock nut, the bolt system resists bolt slippage by distributing the clamp load over a wide area.	Used in applications where greater resistance to corrosion is required and increased bearing area is desired.
Material	AISI 4037 - 535 or equivalent alloy steel	18-8 Stainless Steel
Heat Treatment	Grade 8 fram bolts shall be heat-treated, oil quenched and tempered at a minimum temperature of 800°F	-
Core Hardness	Rockwell C33 - C39	Overall Hardness:
Surface Hardness	Rockwell 30N58.6 maximum	1/4 through 5/8" diameters: Rockwell B95 - C32 3/4 through 1-1/2" diameters: Rockwell B80 - C32
Proof Load	120,000 psi.	-
Yield Strength	130,000 psi. minimum	1/4 through 5/8" diameters: 65,000 psi 3/4 through 1-1/2" diameters: 45,000 psi
Tensile Strength	150,000 psi minimum	1/4 through 5/8" diameters: 100,000 - 150,000 psi. 3/4 through 1-1/2" diameters: 85,000 - 140,000 psi.
Coating	-	Stainless flange bolts are usually supplied with no additional finish.



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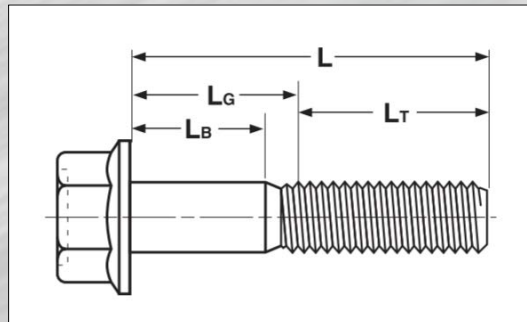
MAXIMUM GRIP GAGING LENGTHS, L, AND MINIMUM BODY LENGTHS, L

Nominal Diameter	1/4		5/16		3/8		7/16		1/2		5/8		3/4	
	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.
1-1/4														
1-3/8	0.225	0.625												
1-1/2	0.350	0.750	0.208	0.625										
1-5/8	0.475	0.875	0.333	0.750	0.187	0.625								
1-3/4	0.600	1.000	0.458	0.875	0.312	0.750								
1-7/8	0.725	1.125	0.583	1.000	0.437	0.875	0.286	0.750						
2	0.850	1.250	0.708	1.125	0.532	1.000	0.411	0.875	0.269	0.750				
2-1/8	0.975	1.375	0.833	1.250	0.687	1.125	0.536	1.000	0.394	0.875				
2-1/4	1.100	1.500	0.958	1.375	0.812	1.250	0.661	1.125	0.519	1.000				
2-3/8	1.225	1.625	1.083	1.500	0.937	1.375	0.786	1.250	0.644	1.125				
2-1/2	1.350	1.750	1.208	1.625	1.062	1.500	0.911	1.375	0.769	1.250				
2-5/8	1.475	1.875	1.333	1.750	1.187	1.625	1.036	1.500	0.894	1.375	0.352	1.125		
2-3/4	1.600	2.000	1.458	1.875	1.312	1.750	1.161	1.625	1.019	1.500	0.477	1.250		



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MAXIMUM GRIP GAGING LENGTHS, L, AND MINIMUM BODY LENGTHS, L

Nominal Diameter	1/4		5/16		3/8		7/16		1/2		5/8		3/4	
	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.	LB Min.	LG Max.
2-7/8	1.725	2.125	1.583	2.000	1.437	1.875	1.286	1.750	1.144	1.625	0.602	1.375	0.325	1.125
3	1.850	2.250	1.708	2.125	1.562	2.000	1.411	1.875	1.269	1.750	0.727	1.500	0.450	1.250
3-1/4	2.100	2.500	1.958	2.375	1.812	2.250	1.661	2.125	1.519	2.000	0.977	1.750	0.700	1.500
3-1/2	2.350	2.750	2.208	2.625	2.062	2.500	1.911	2.375	1.769	2.250	1.227	2.000	0.950	1.750
3-3/4	2.600	3.000	2.458	2.875	2.312	2.750	2.161	2.625	2.019	2.500	1.477	2.250	1.200	2.000
4	2.850	3.250	2.708	3.125	2.562	3.000	2.411	2.875	2.269	2.750	1.727	2.500	1.450	2.250
4-1/4	3.100	3.500	2.958	3.375	2.812	3.250	2.661	3.125	2.519	3.000	1.977	2.750	1.700	2.500
4-1/2	3.350	3.750	3.208	3.625	3.062	3.500	2.911	3.375	2.769	3.250	2.227	3.000	1.950	2.750
4-3/4	3.600	4.000	3.458	3.875	3.312	3.750	3.161	3.625	3.019	3.500	2.477	3.250	2.200	3.00
5	3.850	4.250	3.708	4.125	3.562	4.000	3.411	3.875	3.269	3.750	2.727	3.500	2.450	3.250