

Marketed By:



فاستنر بوينت (ش.ذ.م.م.)  
**FASTENER POINT LLC**



Manufactured By:



فاستنر بوينت للصناعات (ش.ذ.م.م.)  
**FASTENER POINT IND. LLC**

		PITCH TPI		Stress area in <sup>2</sup>			BOLT/SCREW & STUD ASTM A193 / A320 B8-1										NUT ASTM A194 Gr.8						
BOLT SIZE	Inch	UNC	UNF	8UN	UNC	UNF	8UN	SHANK DIAMETER	WIDTH ACCROSS FLATS	HEAD HEIGHT	YIELD STRESS	YIELD LOAD	TENSILE STRESS	TORQUE *	REDUCTION OF AREA	HARDNESS	ELONG-ATION #	WIDTH ACCROSS FLATS	HEAD HEIGHT	PROOF STRESS	PROOF LOAD	HARDNESS	
								Inch	Inch	Inch	ksi	8UN lbf	ksi	ft. lbf	%	HRB	%	Inch	Inch	ksi	8UN lbf	HB	
1/4	20	28			0.0318	0.0364																	
5/16	18	24			0.0524	0.0580																	
3/8	16	24			0.0775	0.0878		0.360-0.388	0.669-0.688	0.226-0.268	30	2,330	75	10	50-	-96	30-	0.669-0.688	0.341-0.377	80	6,200	126-300	
7/16	14	20			0.1063	0.1187					30	3,190	75	16	50-	-96	30-			80	8,500	126-300	
1/2	13	20			0.1419	0.1599		0.482-0.515	0.850-0.875	0.302-0.364	30	4,260	75	24	50-	-96	30-	0.850-0.875	0.464-0.504	80	11,350	126-300	
9/16	12	18			0.182	0.203					30	5,460	75	34	50-	-96	30-			80	14,560	126-300	
5/8	11	18			0.226	0.256		0.605-0.642	1.031-1.062	0.378-0.444	30	6,780	75	47	50-	-96	30-	1.031-1.062	0.587-0.631	80	18,080	126-300	
3/4	10	16			0.334	0.373		0.729-0.768	1.212-1.250	0.455-0.524	30	10,020	75	84	50-	-96	30-	1.212-1.250	0.710-0.758	80	26,720	126-300	
7/8	9	14			0.462	0.509		0.852-0.895	1.394-1.438	0.531-0.604	30	13,860	75	136	50-	-96	30-	1.394-1.438	0.833-0.885	80	36,960	126-300	
1	8	12	8		0.606	0.663	0.606	0.976-1.022	1.575-1.625	0.591-0.700	30	18,170	75	203	50-	-96	30-	1.575-1.625	0.956-1.012	80	48,500	126-300	
1 1/8	7	12	8		0.763	0.856	0.790	1.098-1.149	1.756-1.812	0.658-0.780	30	23,700	75	298	50-	-96	30-	1.756-1.812	1.079-1.139	80	63,200	126-300	
1 1/4	7	12	8		0.969	1.073	1.000	1.223-1.277	1.938-2.000	0.749-0.876	30	30,000	75	420	50-	-96	30-	1.938-2.000	1.187-1.251	80	80,000	126-300	
1 3/8	6	12	8		1.155	1.315	1.233	1.345-1.404	2.119-2.188	0.810-0.940	30	37,020	75	569	50-	-96	30-	2.119-2.188	1.310-1.378	80	98,700	126-300	
1 1/2	6	12	8		1.405	1.581	1.492	1.470-1.531	2.300-2.375	0.902-1.036	30	44,760	75	751	50-	-96	30-	2.300-2.375	1.433-1.505	80	119,400	126-300	
1 5/8			8				1.78	1.591-1.658	2.481-2.562	0.978-1.116	30	53,100	75	965	50-	-96	30-	2.481-2.562	1.556-1.632	80	141,600	126-300	
1 3/4	5		8	1.90			2.08	1.716-1.785	2.662-2.750	1.054-1.196	30	62,400	75	1,222	50-	-96	30-	2.662-2.750	1.679-1.759	80	166,400	126-300	
1 7/8			8				2.41	1.839-1.912	2.844-2.938	1.130-1.276	30	72,300	75	1,517	50-	-96	30-	2.844-2.938	1.802-1.886	80	192,800	126-300	
2	4 1/2		8	2.50			2.77	1.964-2.039	3.025-3.125	1.175-1.388	30	83,100	75	1,859	50-	-96	30-	3.025-3.125	1.925-2.013	80	221,600	126-300	
2 1/4	4 1/2		8	3.25			3.56	2.214-2.305	3.388-3.500	1.327-1.548	30	106,800	75	2,688	50-	-96	30-	3.388-3.500	2.155-2.251	80	284,800	126-300	
2 1/2	4		8	4.00			4.44	2.461-2.559	3.750-3.875	1.479-1.708	30	133,200	75	3,725	50-	-96	30-	3.750-3.875	2.401-2.505	80	355,200	126-300	
2 3/4	4		8	4.93			5.43	2.711-2.827	4.112-4.250	1.632-1.869	30	162,900	75	5,012	50-	-96	30-	4.112-4.250	2.647-2.759	80	434,400	126-300	
3	4		8	5.97			6.51	2.961-3.081	4.475-4.625	1.815-2.060	30	195,300	75	6,555	50-	-96	30-	4.475-4.625	2.893-3.013	80	520,800	126-300	
3 1/4	4		8	7.10			7.69				30	230,700	75	8,388	50-	-96	30-	4.838-5.000	3.124-3.252	80	615,200	126-300	
3 1/2	4		8	8.33			8.96				30	268,800	75	10,525	50-	-96	30-	5.200-5.375	3.370-3.506	80	716,800	126-300	
3 3/4	4		8	9.66			10.34				30	310,200	75	13,014	50-	-96	30-	5.562-5.750	3.616-3.760	80	827,200	126-300	
4	4		8	11.08			11.81				30	354,300	75	15,855	50-	-96	30-	5.925-6.125	3.862-4.014	80	944,800	126-300	
Dimensions							HEAVY HEX as per ANSI/ASME B18.2.1										HEAVY HEX as per ANSI/ASME B18.2.2						
Markings							'FPI' 'B8'										'FPI' '8'						
Tempering °C																							
Heating for 24 Hours for the Nut °C																							
Hardness After Heating																							
Charpy Test Specimen 10X10X55																							
Charpy V Notch Impact test at																							
Carbon																	-0.08						
Manganese																	-2.0						
Sulfur																	-0.03						
Silicon																	-1.0						
Chromium																	18.0-20.0						
Molybdenum																							
Nickle																	8.0-11.0						
Vanadium																							
Boron																							
Copper																							
Nitrogen																	-0.045						
Phosphorus																							
Material							SS-304										AISI 304						

Notes:

- 8UN means less than 1" UNC thread and above 1" 8 TPI thread
- Left hand side of '-' is minimum value right hand side of '-' is maximum value  
Eg. 0.5-0.7 min is 0.5 and max is 0.7  
Eg. -0.8 max is 0.8 no minimum value  
Eg. 2.0- min is 2.0 no maximum value

\* Torque value based on 75% of proof load and finish as received steel  
# Elongation in length of 4 times Diameter

While every care has been taken in preparation of the information, the company accepts no liability for any loss or damage either direct or consequential, Please refer Original standards for details.