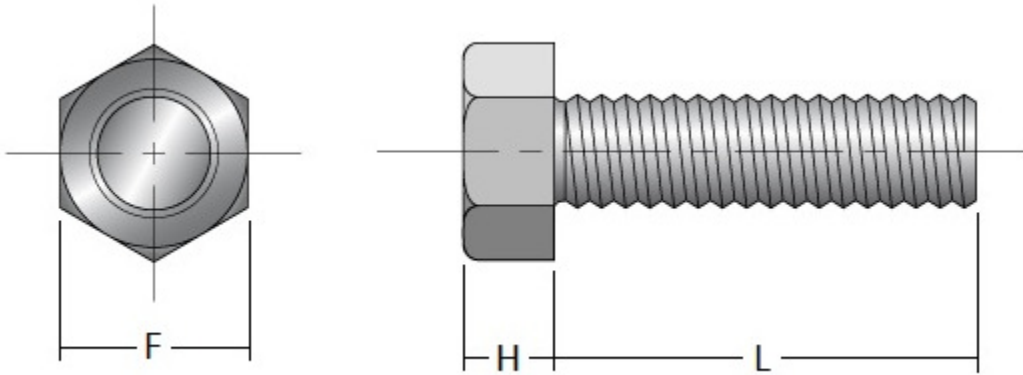


### Hex Tap Bolts, Grade 5, Zinc Plated

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



Size	F		H	
	Width Across Flats		Head Height	
	Max.	Min.	Max.	Min.
1/4	.438	.425	.188	.150
5/16	.500	.484	.235	.195
3/8	.562	.544	.268	.226
7/16	.625	.603	.316	.272
1/2	.750	.725	.364	.302
9/16	.812	.798	.371	.348
5/8	.938	.906	.444	.378
3/4	1.125	1.088	.524	.455
7/8	1.312	1.269	.604	.531
1	1.500	1.450	.700	.591
1 1/8	1.688	1.631	.780	.658
1 1/4	1.875	1.812	.876	.749
1 3/8	2.062	1.994	.940	.810
1 1/2	2.250	2.175	1.036	.902
1 3/4	2.625	2.538	1.196	1.054
2	3.000	2.900	1.388	1.175
2 1/4	3.375	3.262	1.548	1.327
2 1/2	3.750	3.625	1.708	1.479
2 3/4	4.125	3.988	1.869	1.632
3	4.500	4.350	2.060	1.815
3 1/4	4.875	4.712	2.251	1.936
3 1/2	5.250	5.075	2.380	2.057
3 3/4	5.625	5.437	2.572	2.241
4	6.000	5.800	2.764	2.424

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Date: December 16, 2015	<b><i>FASTENAL</i></b>	TAP.GR5.Z

### Specification Requirements:

- Dimensions: ASME B18.2.1, Fully Threaded
- Material & Mechanical Properties: Grade 5 per SAE J-429
- Thread Requirements: ASME B1.1, UNC & UNF, Class 2A, Fully Threaded  
Threads must be within 2 times the thread pitch of the head.  
Thread acceptance per 6.5.1.4 of ASTM F788
- Head Marking: 3 radial lines 120 degrees apart and Manufacturer's I.D
- Finish: Fe/Zn 3AN per ASTM F1941/F1941M
- Material Test Reports: The MTR must have documented lot traceability, dimensional results, full chemical test results and full mechanical test results to the specification(s) above. In addition, the MTR shall be in full compliance with Fastenal's MTR Requirements.