

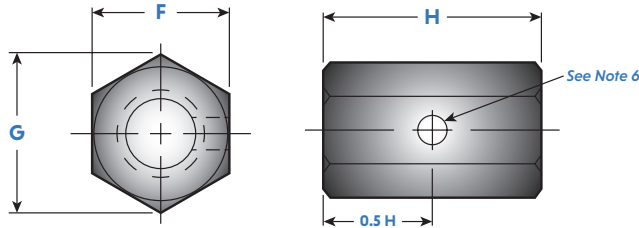


CONQUEST

CONQUER THE JOB

A563 HEX COUPLING NUTS

IFI-128 Dimensions



Nominal Size or Basic Major Dia of Thread	Width Across Flats (F)			Thickness (H)			Width Across Corners (G)	
	Basic	Max	Min	Basic	Max	Min	Max	Min
1/4"	3/8"	0.375	0.365	3/4"	0.76	0.74	0.433	0.416
5/16"	1/2"	0.500	0.489	15/16"	0.95	0.93	0.577	0.557
3/8"	9/16"	0.562	0.551	1-1/8"	1.13	1.11	0.650	0.628
7/16"	11/16"	0.688	0.675	1-5/16"	1.32	1.30	0.794	0.769
1/2"	3/4"	0.750	0.736	1-1/2"	1.51	1.49	0.866	0.839
9/16"	7/8"	0.875	0.861	1-11/16"	1.70	1.67	1.010	0.981
5/8"	15/16"	0.938	0.922	1-7/8"	1.89	1.86	1.083	1.051
3/4"	1-1/8"	1.125	1.088	2-1/4"	2.27	2.22	1.299	1.240
7/8"	1-5/16"	1.312	1.269	2-5/8"	2.65	2.60	1.516	1.447
1"	1-1/2"	1.500	1.450	3"	3.03	2.97	1.732	1.653
1-1/8"	1-11/16"	1.688	1.631	3-3/8"	3.40	3.34	1.949	1.859
1-1/4"	1-7/8"	1.875	1.812	3-3/4"	3.78	3.71	2.165	2.066
1-3/8"	2-1/16"	2.062	1.994	4-1/8"	4.16	4.09	2.382	2.273
1-1/2"	2-1/4"	2.250	2.175	4-1/2"	4.54	4.46	2.598	2.480
1-5/8"	2-9/16"	2.562	2.481	4-7/8"	4.91	4.83	2.959	2.828
1-3/4"	2-3/4"	2.750	2.662	5-1/4"	5.29	5.21	3.175	3.035
1-7/8"	2-15/16"	2.938	2.844	5-5/8"	5.67	5.58	3.392	3.242
2"	3-1/8"	3.125	3.025	6"	6.04	5.95	3.608	3.448
2-1/4"	3-1/2"	3.500	3.388	6-3/4"	6.80	6.70	4.041	3.862
2-1/2"	3-7/8"	3.875	3.750	7-1/2"	7.55	7.44	4.474	4.275
2-3/4"	4-1/4"	4.250	4.112	8-1/4"	8.31	8.19	4.907	4.688
3"	4-5/8"	4.625	4.475	9"	9.06	8.94	5.340	5.101
3-1/4"	5"	5.000	4.838	9-3/4"	9.81	9.68	5.773	5.515
3-1/2"	5-3/8"	5.375	5.200	10-1/2"	10.57	10.43	6.206	5.928
3-3/4"	5-3/4"	5.750	5.562	11-1/4"	11.32	11.17	6.639	6.340
4"	6-1/8"	6.125	5.925	12"	12.08	11.92	7.072	6.754
4-1/4"	6-1/2"	6.500	6.288	12-3/4"	12.83	12.67	7.506	7.168
4-1/2"	6-7/8"	6.875	6.650	13-1/2"	13.58	13.42	7.939	7.581
4-3/4"	7-1/4"	7.250	7.012	14-1/4"	14.34	14.16	8.372	7.994
5"	7-5/8"	7.625	7.375	15"	15.09	14.91	8.805	8.408
5-1/4"	8"	8.000	7.738	15-3/4"	15.85	15.65	9.238	8.821
5-1/2"	8-3/8"	8.375	8.100	16-1/2"	16.60	16.40	9.671	9.234
5-3/4"	8-3/4"	8.750	8.462	17-1/4"	17.35	17.15	10.104	9.647
6"	9-1/8"	9.125	8.825	18"	18.11	17.89	10.537	10.060



CONQUEST
CONQUER THE JOB

A563 HEX COUPLING NUTS

Notes:

- 1) Top Surfaces of Nuts:** Nuts shall be double chamfered. The diameter of chamfer circle shall be equal to the maximum width across flats within a tolerance of minus 15 percent. The length of chamfer at hex corners shall be from 5 to 15 percent of the basic thread diameter. The surface of the chamfer may be slightly convexed or rounded.
- 2) Corner Fill:** A rounding or lack of fill at junction of hex corners with chamfer shall be permissible provided the width across corners is within specified limits at and beyond a distance equal to 17.5 percent of the basic thread diameter from the chamfered faces.
- 3) Concentricity of Tapped Hole:** Axis of tapped hole shall be concentric with axis of nut body within a tolerance equal to 3 percent (6 percent FIM) of the maximum width across flats.
- 4) Countersink:** Tapped hole may be countersunk on both faces.
- 5) Threads:** Threads shall be Unified coarse or 8 thread series (UNC or 8 UN series), Class 2B, in accordance with ASME B1.1, page A-46.
- 6)** In some applications it may be desirable to assure that the threaded parts joined by a coupling nut are each engaged to approximately one-half nut thickness. As a visual inspection aid, a hole drilled through one side of the nut is recommended. The hole should be located a mid nut thickness, and have a diameter of 0.2 to 0.4 times nominal nut size for sizes 2-1/2" and smaller, and 1", for sizes 2-3/4" and larger. Nuts shall be furnished without a hole, unless specially ordered by the purchaser.
- 7) Material:** Unless otherwise specified, chemical and mechanical properties of steel nuts shall conform with ASTM A563, Grade A, page B-167. Other materials shall be as agreed upon by manufacturer and purchaser.
- 8)** For wrench openings, refer to Appendix III, ASME/ANSI B18.2.2, page D-22.