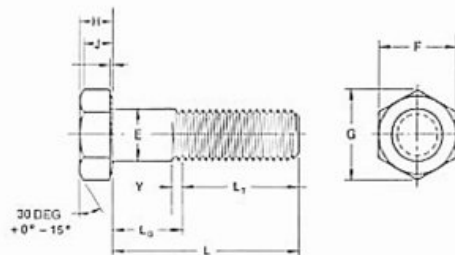


IMPERIAL SIZES



DIMENSION OF HEAVY HEX BOLTS - ANSI/ASME B 18.2.1 in mm

Nom Size	E Body Diameter		F Width Across Flat		G Width Across Corners		H Height		J Wrenching Height	LT Thread Length for screw		Y Transition Thread Length
	max	min	max	min	max	min	max	min	min	6" & shorter basic	Over 6" basic	max
3/8"	9.50	9.40	14.30	14.00	16.50	16.00	6.20	5.70	4.10	25.40	31.80	7.90
7/16"	11.10	10.90	15.90	15.50	18.30	17.70	7.40	6.90	5.00	28.60	34.90	9.10
1/2"	13.10	12.20	22.20	21.60	25.70	24.60	9.20	7.70	5.50	31.80	38.10	9.80
5/8"	16.30	15.40	27.00	26.20	31.20	29.80	11.30	9.30	6.80	38.10	44.65	11.60
3/4"	19.50	18.50	31.80	30.80	36.70	35.10	13.30	11.60	8.20	44.50	50.80	12.70
7/8"	22.70	21.60	36.50	35.40	42.20	40.40	15.30	13.50	9.60	50.80	57.20	14.10
1"	26.00	24.80	41.30	40.00	47.70	45.60	17.80	15.00	10.60	57.20	63.50	15.90
1 1/8"	29.20	27.90	46.00	44.60	53.20	50.90	19.80	16.70	11.70	63.50	69.90	18.10
1 1/4"	32.40	31.10	50.80	49.20	58.60	56.10	22.30	19.00	13.50	69.90	76.20	18.10
1 3/8"	35.70	34.20	55.60	53.80	64.20	61.40	23.90	20.60	14.50	76.20	82.60	21.20
1 1/2"	38.90	37.30	60.30	58.40	69.60	66.60	26.30	22.90	16.30	82.60	88.90	21.20
1 3/4"	45.30	43.60	69.90	67.60	80.40	77.10	30.40	26.80	19.00	95.30	101.60	25.40
2"	51.80	49.90	79.40	76.80	91.60	87.60	35.30	29.80	21.00	108.00	114.30	28.20
2 1/4"	58.50	56.20	88.90	86.10	102.60	98.10	39.30	33.70	23.70	120.70	127.00	28.20
2 1/2"	65.00	62.50	98.40	95.30	113.60	108.30	43.40	37.60	26.50	133.40	139.70	31.80
2 3/4"	71.80	68.90	108.00	104.40	124.60	119.10	47.50	41.50	29.20	146.10	152.40	31.80
3"	78.30	75.20	117.50	113.70	135.60	129.60	52.30	46.10	32.80	158.80	165.10	31.80