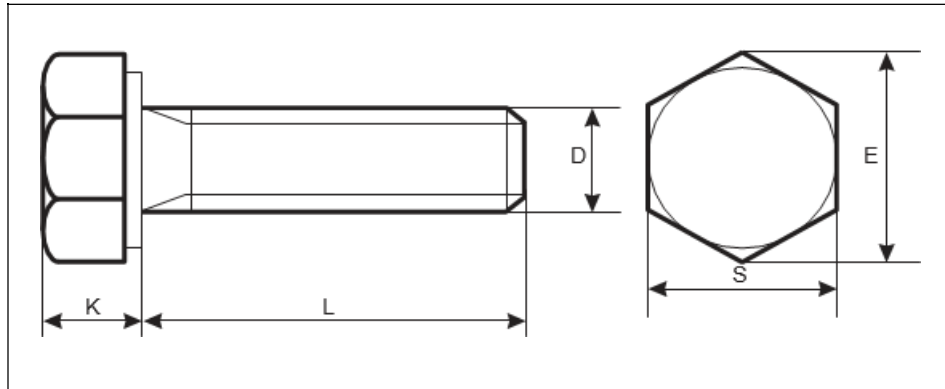


### Metric DIN 558 Fully Threaded Hexagon Screws/Bolts



D	M5	M6	M8	M10	M12	M14	M16	M20	M24
S	8	10	13	17	19	22	24	30	36
E	8.63	10.89	14.2	18.72	20.88	23.91	26.17	32.95	39.55
K	3.5	4	5.5	7	8	9	10	13	15
L (mm)	Weight kg / 1000 pcs								
10		5.1	11.1						
12		5.1	11.1	21.2					
16	3.4	5.1	11.1	21.2	30.2				
20	3.9	5.8	12.3	23.2	33.0	48.0	83.5		
25	4.5	6.7	13.9	25.7	36.6	55.0	70.2	126.0	
30	5.1	7.5	15.5	28.2	40.2	53.9	76.9	136.0	214.0
35	5.7	8.4	17.1	30.7	43.8	62.9	88.5	147.0	229.0
40	6.4	9.2	18.7	33.2	47.4	67.9	90.9	157.0	244.0
45	7.0	10.1	20.3	35.7	51.0	72.9	97.1	167.0	259.0
50	7.6	11.0	21.8	38.2	54.5	77.9	108.0	178.0	274.0
55	8.2	11.8	23.3	40.7	58.1	82.9	110.0	188.0	289.0
60	8.8	12.7	24.8	43.4	61.7	87.9	117.0	199.0	304.0
65		13.5	26.3	45.9	65.3	92.8	123.0	209.0	319.0
70		14.4	27.8	48.5	68.9	79.8	130.0	219.0	335.0
80			30.8	53.7	76.1	107.0	144.0	240.0	363.0
90			33.8	58.9	83.3	117.0	158.0	261.0	382.0
100			36.8	64.1	90.5	127.0	172.0	282.0	401.0

All measurements are in mm

## Mechanical properties of stainless steel for metric DIN 558 Fully Threaded Hexagon Screws/Bolts

Steel group	Steel grade	Strength class	Screws, Nuts and Bolts			
			Tensile strength N/mm <sup>2</sup>	Tensile strength PSI	Dia range	Nut Load N/mm <sup>2</sup>
Austenitic	A2 and A4	50	500	70,000	<=M39	500
		70	700	100,000	<=M20	700
		80	800	118,000	<=M20	800

The tensile stress is calculated with reference to the tensile stress area (see DIN EN ISO 3506-1979). Nuts to be paired with same grade of stainless steel screw

## Chemical composition of stainless steel metric DIN 558 Fully Threaded Hexagon Screws/Bolts

Grade	USA Grade	Material designation	Material no.	C %	Si ≤ %	Mn ≤ %	Cr %	Mo %	Ni %
A 2	304	X 5Cr Ni 1810	1.4301	≤ 0.07	1.0	2.0	17.5 to 19.5	-	8.0 to 10.5
		X 2 Cr Ni 1811	1.4306	≤ 0.03	1.0	2.0	18.0 to 20.0	-	10 to 12.0
		X 8 Cr Ni 19/10	1.4303	≤ 0.07	1.0	2.0	17.0 to 19.0	-	11.0 to 13.0
A 4	316	X 5 Cr Ni Mo 1712	1.4401	≤ 0.07	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0
		X 2 Cr Ni Mo 1712	1.4404	≤ 0.03	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10 to 13

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## Chemical composition of steel metric DIN 558 Fully Threaded Hexagon Screws/Bolts

PROPERTY CLASS	MATERIAL AND TREATMENT	CHEMICAL COMPOSITION LIMITS %				TEMPERING TEMP °C MIN.
		C		P	S	
		min.	max.	max.	max.	
4.6, 4.8, 5.8, 6.8	Low or medium carbon steel	-	0.55	0.05	0.06	-
8.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
9.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
10.9	Medium carbon steel additives e.g. boron, Mn, Cr or Alloy steel - quenched, tempered	0.20	0.55	0.04	0.05	425
12.9	Alloy steel - quenched, tempered	0.20	0.50	0.035	0.035	380

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