

SPIROL[®] BOLT SPECIFICATIONS

Common Inch Bolts per SAE J429							
Threads	Grade 2 Loads (lbs.)		Grade 5 Loads (lbs.)		Grade 8 Loads (lbs.)		
	Coarse	Proof	Clamp	Proof	Clamp	Proof	Clamp
#4-40		330	250	510	380	720	540
#6-32		500	375	770	580	1,090	820
#8-32		770	575	1,190	895	1,680	1,260
#10-24		960	720	1,480	1,110	2,100	1,575
1/4-20		1,750	1,310	2,700	2,025	3,800	2,850
5/16-18		2,900	2,200	4,450	3,340	6,300	4,725
3/8-16		4,250	3,200	6,600	4,950	9,300	7,000

Common Inch Bolts per SAE J429							
Threads	Grade 2 Loads (lbs.)		Grade 5 Loads (lbs.)		Grade 8 Loads (lbs.)		
	Fine	Proof	Clamp	Proof	Clamp	Proof	Clamp
#4-48		360	270	560	420	790	600
#6-40		550	410	860	645	1,210	910
#8-36		800	600	1,250	940	1,760	1,320
#10-32		1,100	825	1,700	1,275	2,400	1,800
1/4-28		2,000	1,500	3,100	2,325	4,350	3,260
5/16-24		3,200	2,400	4,900	3,675	6,950	5,210
3/8-24		4,800	3,600	7,450	5,600	10,500	7,900

Common Metric Bolts per ISO 898								
Threads	Class 5.8 Loads (N)		Class 8.8 Loads (N)		Class 10.9 Loads (N)		Class 12.9 Loads (N)	
	Proof	Clamp	Proof	Clamp	Proof	Clamp	Proof	Clamp
M3	1,910	1,430	2,920	2,190	4,180	3,140	4,880	3,660
M3.5	2,580	1,940	3,940	2,960	5,630	4,220	6,580	4,940
M4	3,340	2,500	5,100	3,850	7,290	5,450	8,520	6,400
M5	5,400	4,050	8,230	6,150	11,800	8,850	13,800	10,350
M6	7,640	5,750	11,600	8,700	16,700	12,550	19,500	14,650
M8 X 1	14,900	11,200	22,700	17,000	32,500	24,400	38,000	28,500
M8 X 1.25	13,900	10,400	21,200	15,900	30,400	22,800	35,500	26,600
M10 X 1	24,500	18,400	37,400	28,100	53,500	40,100	62,700	47,000
M10 X 1.25	23,300	17,500	35,500	26,600	50,800	38,100	59,400	44,600
M10 X 1.5	22,000	16,500	33,700	25,300	48,100	36,100	56,300	42,200
M12 X 1.25	35,000	26,300	53,400	40,100	76,400	57,300	89,300	67,000
M12 X 1.5	33,500	25,100	51,100	38,300	73,100	54,800	85,500	64,100
M12 X 1.75	32,000	24,000	48,900	36,700	70,000	52,500	81,800	61,400

Notes:

- Proof loads are per SAE J429 and ISO 898 respectively.
- Shaded inch sizes are not directly covered by SAE J429, but are calculated appropriately.
- Clamp load is approximately 75% proof load.

Standard Fastener Rated Yield (Proof) Strengths	
SAE Grade 5	85,000 psi
SAE Grade 8	120,000 psi
ISO Class 5.8	380 N/mm ²
ISO Class 8.8	580 N/mm ²
ISO Class 10.9	830 N/mm ²
ISO Class 12.9	970 N/mm ²

SPIROL®

Innovative fastening solutions.
Lower assembly costs.



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