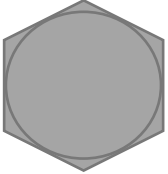
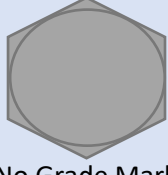





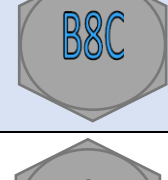


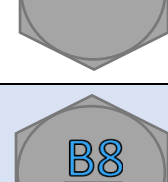
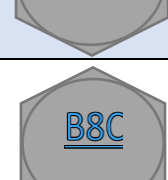
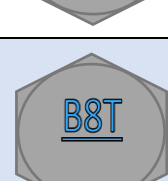
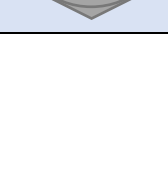



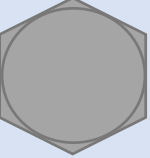

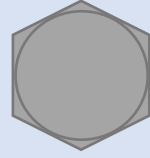
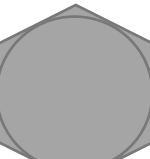






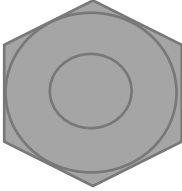
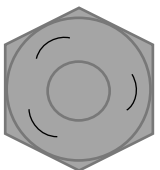
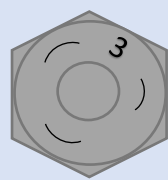
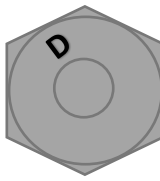


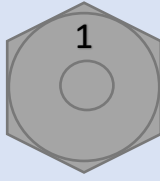

MARCHI DI IDENTIFICAZIONE DEL BULLONE

BOLT IDENTIFICATION MARKINGS

Marchio di identificazione Identification Grade Mark	Specificazione Specification	Descriz. elemento di fissaggio Fastner description	Materiale Material	Intervallo di dimensioni nominali (pollici) Nominal size Range (in.)	Proprietà meccaniche Mechanical properties		
					Proof Load (psi)	Yield Strength Min (psi)	Tensile strenght Min (psi)
 No Grade Mark	SAE J429 Grade 1	Dadi, Viti, Prigionieri	Low- or medium- carbon steel	$\frac{1}{4} \rightarrow 1 \frac{1}{2}$	33.000	36.000	60.000
	ASTM A307 Grades A&B		Low-carbon steel	$\frac{1}{4} \rightarrow 4$	-	-	
	SAE J429 Grade 2	Bolts, Screws, Studs	Low- or medium- carbon steel	$\frac{1}{4} \rightarrow \frac{3}{4}$ Over $\frac{3}{4} \rightarrow 1 \frac{1}{2}$	55.000 33.000	57.000 33.000	74.000 60.000
 No Grade Mark	SAE J429 Grade 4	Prigionieri Studs	Medium- carbon cold-drawn steel	$\frac{1}{4} \rightarrow 1 \frac{1}{2}$	-	100.000	115.000
	ASTM A193 GRADE B5	Dadi, Viti, Prigionieri per servizi ad alte temperature	AISI 501	$\frac{1}{4} \rightarrow 4$	-	80.000	110.000
	ASTM A193 Grade B6		AISI 410	$\frac{1}{4} \rightarrow 4$	-	85.000	110.000

	ASTM A193 Grade B7	Bolts, Screws, Studs for high- temperature service	AISI 4140, 4142, or 4145	$\frac{1}{4} \rightarrow 2 \frac{1}{2}$ Over $2 \frac{1}{2} \rightarrow 4$ Over 4 $\rightarrow 7$	- - -	105.000 95.000 75.000	125.000 115.000 100.000			
	ASTM A193 Grade B16		CrMoVa Alloy Steel	$\frac{1}{4} \rightarrow 2 \frac{1}{2}$ Over $2 \frac{1}{2} \rightarrow 4$ Over 4 $\rightarrow 7$	- - -	105.000 95.000 85.000	125.000 115.000 100.000			
	ASTM a193 Grade 8		AISI 304	$\frac{1}{4}$ and larger $\frac{1}{4}$ e più larghe	-	30.000	75.000			
	ASTM A320 Grade B8C	AISI 347								
	ASTM A320 Grade B8T	AISI 321								
	ASTM A320 Grade B8F	AISI 316								
	ASTM A320 Grade B8M	AISI 316								
	ASTM A320 Grade B8	AISI 304	$\frac{1}{4} \rightarrow \frac{3}{4}$ Over $\frac{3}{4} \rightarrow 1$ Over 1 $\rightarrow 1 \frac{1}{4}$ Over $1 \frac{1}{4} \rightarrow 1 \frac{1}{2}$					- - - -	100.000 80.000 65.000 50.000	100.000 80.000 65.000 50.000
	ASTM A320 Grade B8C	AISI 347								
	ASTM A320 Grade B8T	AISI 321								

	ASTM A320 Grade B8F		AISI 303 or 303Se				
 No Grade Mark	SAE J429 Grade 8.1	Prigionieri Studs	Medium- Carbon Alloy or SAE 1041 Modified Elevated- temperature drawn steel	$\frac{1}{4} \rightarrow 1 \frac{1}{2}$	120.000	130.000	150.000
	ASTM A490	Bulloni strutturali ad alta resistenza High-strength structural bolts	Alloy steel, quenched and tempered	$\frac{1}{2} \rightarrow 1 \frac{1}{2}$	120.000	130.000	150.000 min 170.000 max
 No Grade Mark	ISO R898 Class 4.6	Dadi, Viti, Prigionieri	Low- or medium- carbon steel, quenched and tempered	All size thru $1 \frac{1}{2}$	33.000	36.000	60.000
 No Grade mark	ISO R898 Class 5.8				55.000	57.000	74.000
 	ISO R898 Class 8.8				85.000	92.000	120.000
 	ISO R898 Class 10.9	Bolts, Screws, Studs	Alloy steel, quenched and tempered	All size thru $1 \frac{1}{2}$	120.000	130.000	150.000

Marchio di identificazione Identification grade mark	Specificazione specification	Materiale Material	Intervallo di dimensioni nominali (pollici) Nominal size Range (in.)	Carico di prova Proof Load (ksi)	Durezza Rockwell Hardness Rockwell	
					Min	Max
 No Grade Mark	ASTM A563 Grade O	Carbon Steel	$\frac{1}{4} \rightarrow 1 \frac{1}{2}$	69	B55	C32
	ASTM A563 Grade A			69	B55	C32
	ASTM A563 Grade B		$\frac{1}{4} \rightarrow 1$ Over 1 $\rightarrow 1 \frac{1}{2}$	120 105	B69	C32
	ASTM A563 Grade C	Carbon steel, may be quenched and tempered	$\frac{1}{4} \rightarrow 4$	144	B78	C38
	ASTM A563 Grade C	Atmospheric-corrosion-resistant steel; may be quenched and tempered	$\frac{1}{4} \rightarrow 4$	144	B78	C38
	ASTM A563 Grade D	Carbon steel, may be quenched and tempered	$\frac{1}{4} \rightarrow 4$	150	B84	C38
	ASTM A563 Grade DH	Carbon steel quenched and tempered	$\frac{1}{4} \rightarrow 4$	175	C24	C38
	ASTM A563 Grade DH3	Atmospheric-corrosion-resistant steel; may be quenched and tempered	$\frac{1}{4} \rightarrow 4$	175	C24	C38
	ASTM A194 Grade 1	Carbon steel	$\frac{1}{4} \rightarrow 4$	130	B70	-
	ASTM A194 Grade 2	Medium-Carbon steel	$\frac{1}{4} \rightarrow 4$	150	159	352