

SOCKET HEAD SHOULDER
SCREW
UNC



PLAIN

APPLICATION

Bremick® Shoulder Screws are used where a pivoting action is required. The smooth shaft acts as a bearing surface for moving parts.

PRODUCT ATTRIBUTES

Material Class:	Alloy Steel (Class 12.9 Equivalent)
Thread Form:	Class 3A UNC Series
Finish:	Plain/Black/Natural
Standard:	Complies to ASME B18.3:2012
Mechanical Properties:	Complies to ISO 898.1 2013
Chemical Composition:	Complies to ISO 898.1 2013

HEAD MARKING

Manufacturer Mark

Property Class

In some cases, the Bremick head mark will be replaced by the mark of the original manufacturer

MECHANICAL PROPERTIES

PROPERTIES	TENSILE STRENGTH (MPa)	STRESS UNDER PROOF LOAD (MPa)	HARDNESS					
	MIN	NOM.	VICKERS (HV)		BRINELL (HBW)		ROCKWELL (HRC)	
			MIN	MAX	MIN	MAX	MIN	MAX
CLASS 12.9	1220	970	385	435	380	429	39	44

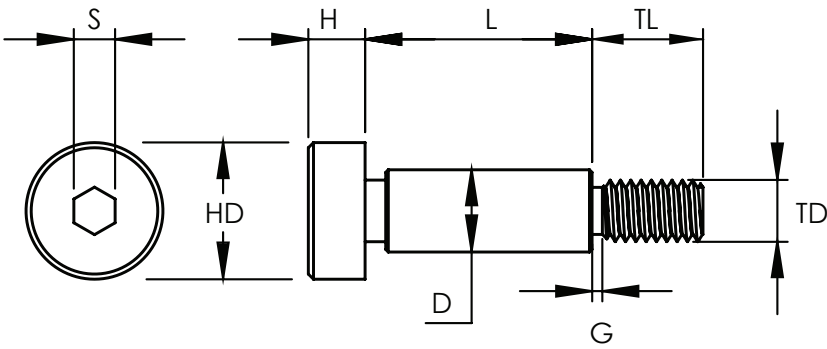
CHEMICAL COMPOSITION (%)

MATERIAL	C		P	S	B	TEMPERING TEMPERATURE °C
	MIN	MAX	MAX	MAX	MAX	MIN
ALLOY STEEL	0.30	0.50	0.025	0.025	0.003	425

FINISH INFORMATION

PLAIN / BLACK / NATURAL		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Plain, Black & Natural are all terms referring to the fastener not having a coating applied. The product has a light oil added.	Plain or uncoated fasteners offer no corrosion protection they are supplied lightly oiled to inhibit the rust process prior to installation and help during installation.	—

DIMENSIONAL DATA (inches)



DIAMETER	PITCH	SHAFT DIAMETER (D)		HEAD DIAMETER (HD)		HEAD HEIGHT (H)		HEX SOCKET ACROSS FLAT (S)	THREAD DIAMETER (TD)	THREAD LENGTH (TL)	(G)
		MIN	MAX	MIN	MAX	MIN	MAX	NOM	NOM	NOM	MAX
5/16	20	0.3085	0.3105	0.419	0.438	0.209	0.219	0.156	1/4	0.438	0.100
3/8	18	0.371	0.373	0.543	0.562	0.24	0.25	0.188	5/16	0.500	0.111
1/2	16	0.496	0.498	0.729	0.75	0.302	0.312	0.250	3/8	0.625	0.125
5/8	13	0.621	0.623	0.853	0.875	0.365	0.375	0.312	1/2	0.750	0.154

SOCKET OR SPANNER SIZE (inches)

SCREW DIAMETER	1/4	5/16	3/8	1/2
SOCKET SIZE	0.156	0.188	0.25	0.312

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