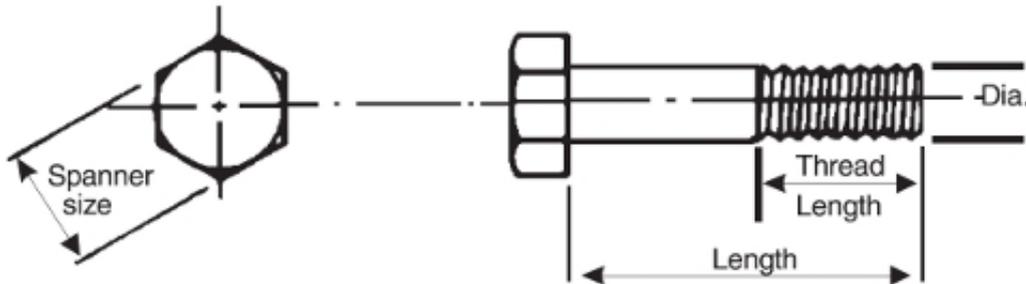


# Bolt Specifications

Dimensions:

The diameter specifies the shank and threaded outside side i.e. 1/4" BSF bolt is 1/4" dia. The length of any non-countersunk bolt/screw is always measured from beneath the head and countersunk bolts/screws are measured from the top of the head



Thread lengths vary over the size ranges but are generally 3/4" to 1". This is a rough guideline, if specific thread lengths are required then please contact us to check before ordering.

UNF bolts are often referred to by their spanner size rather than diameter i.e. 1/2" AF (across flats) - 5/16" dia, Please only order by specifying thread diameter.

# Imperial Spanner Sizes and Threads

**IMPERIAL SPANNER SIZES AND THREADS**

DIAMETER	BSF		UNF	
	THREADS PER INCH	SPANNER SIZE	THREADS PER INCH	SPANNER SIZE
1/4"	26	7/16"	28	7/16"
5/16"	22	17/32"	24	1/2"
3/8"	20	19/32"	24	9/16"
7/16"	18	45/64"	20	5/8"
1/2"	16	13/16"	20	3/4"
9/16"	16	59/64"	18	7/8"
5/8"	14	1"	18	15/16"
3/4"	12	1 3/16"	16	1 1/8"
1"	10	1 15/32"	12	1 1/2"

# Conversion Charts

## METRIC SPANNER SIZES AND THREADS

SIZE	THREAD PITCH	SPANNER SIZE
M5 (5mm)	0.80mm	8mm
M6 (6mm)	1.00mm	10mm
M8 (8mm)	1.25mm	13mm
M10 (10mm)	1.50mm	17mm
M12 (12mm)	1.75mm	19mm
M14 (14mm)	2.00mm	22mm
M16 (16mm)	2.00mm	24mm
M18 (18mm)	2.50mm	27mm
M20 (20mm)	2.50mm	30mm
M22 (22mm)	2.50mm	32mm
M24 (24mm)	3.00mm	36mm

## Imperial conversion to nearest metric equivalent

1/8"	3.0mm	5/8"	16.0mm
5/32"	4.0mm	3/4"	20.0mm
3/16"	5.0mm	7/8"	22.0mm
1/4"	6.0mm	1"	25.0mm
5/16"	8.0mm	1 1/4"	30.0mm
3/8"	10.0mm	1 1/2"	40.0mm
7/16"	11.0mm	1 3/4"	45.0mm
1/2"	12.0mm	2"	50.0mm
9/16"	14.0mm		

## Screw Gauge conversion to nearest metric equivalent

No. 4	2.9mm
No. 6	3.5mm
No. 8	4.2mm
No. 10	4.8mm
No. 12	5.5mm
No. 14	6.3mm

## Others

### Rough Time Frames for Thread Forms

Pre 1930 Usually BSW

1930 - 1950 BSF/BSW

1950 - 1970 UNF/UNC

1970 Onwards Metric but Some UNF

Metric Fine also Pre-War

### TENSILE STRENGTH

Grade 'R' 45-50 Tons/Inch<sup>2</sup>

Grade 'S' 50-55 Tons/Inch<sup>2</sup>

Grade '8.8' 50-55 Tons/Inch<sup>2</sup>