



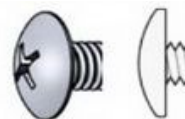
**Flat**  
A countersunk head with a flat top.  
Abbreviated FH



**Oval**  
A countersunk head with a rounded top.  
Abbreviated OH or OV



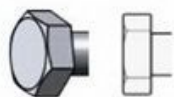
**Pan**  
A slightly rounded head with short vertical sides.  
Abbreviated PN



**Truss**  
An extra wide head with a rounded top.



**Round**  
A domed head.  
Abbreviated RH



**Hex**  
A hexagonal head  
Abbreviated HH or HX



**Hex Washer**  
A hex head with built in washer.



**Slotted Hex Washer**  
A hex head with built in washer and a slot.



**Socket Cap**  
A small cylindrical head using a socket drive.



**Button**  
A low-profile rounded head using a socket drive.

[TradePrince.com](http://TradePrince.com)



Hex Head Cap Screws (All Metals)



Stamped Wing Nuts



Thumb Screws



Elevator Bolts



Wood Drive Screws



Tubular Rivets (All Metals)

Flat Washers (All Metals)



Recessed Head and Slotted Machine Screws



Machine Screws to 5" under head

Type "U" Drive Screws



Step Bolts



Cotter Pins



Hanger Bolts



Pipe Plugs

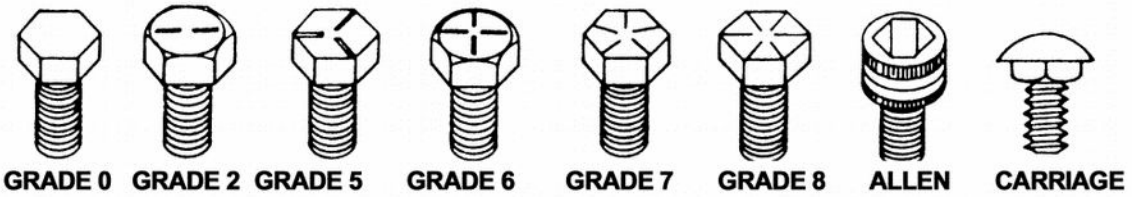


Square Head Machine Bolts



Cold-Formed

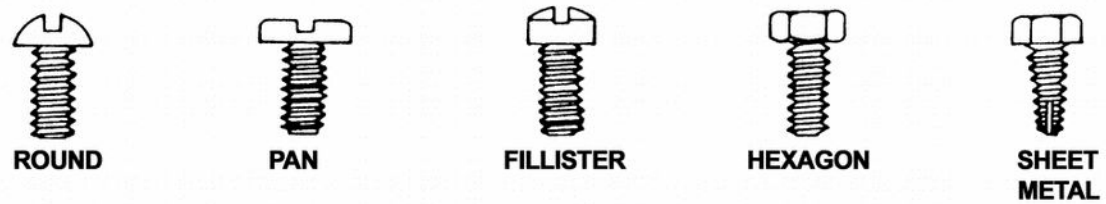
## BOLTS



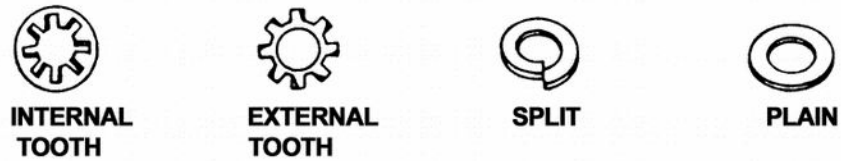
## NUTS



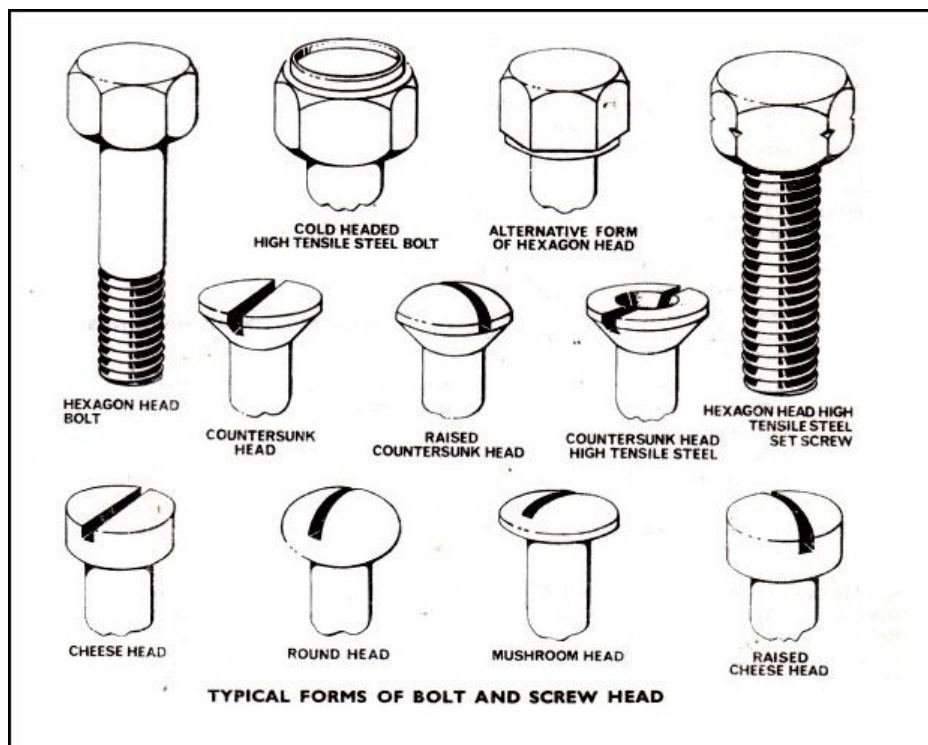
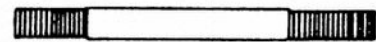
## SCREWS

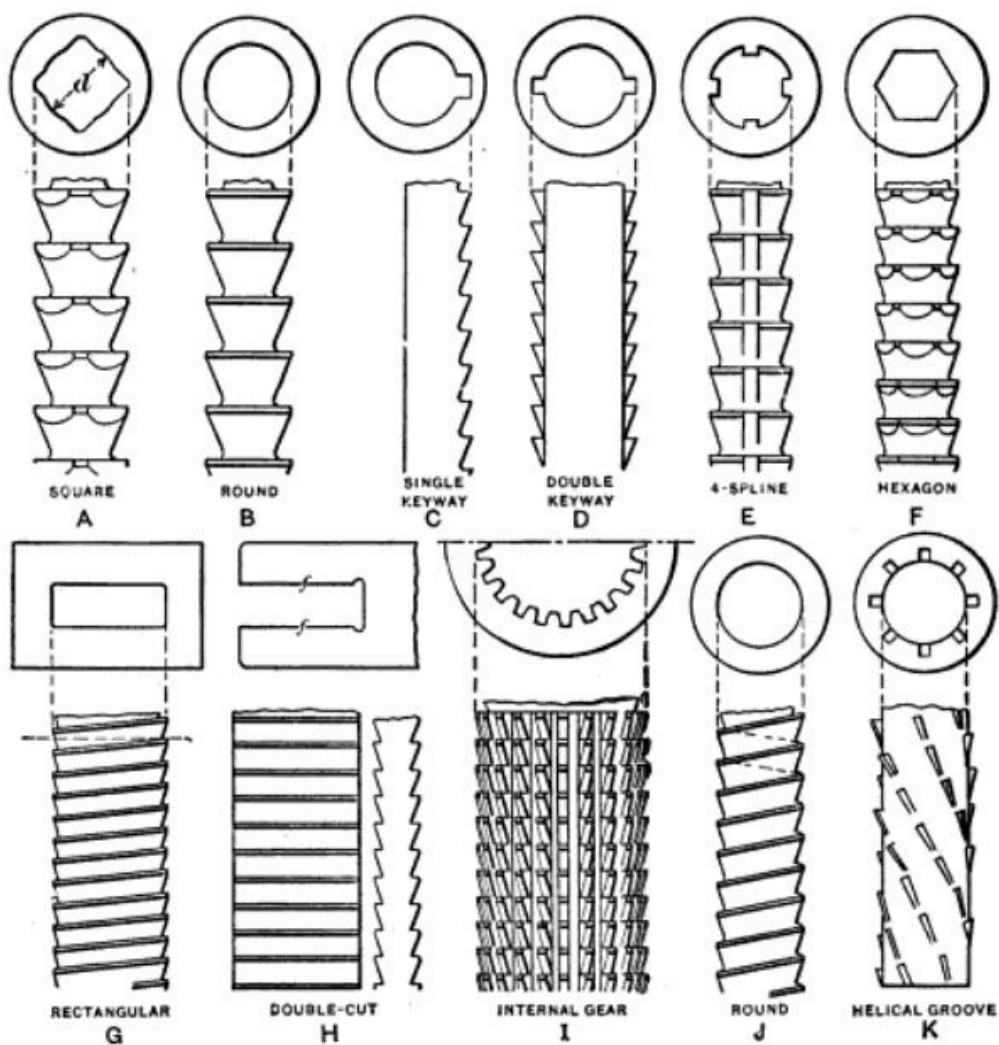


## LOCKWASHERS



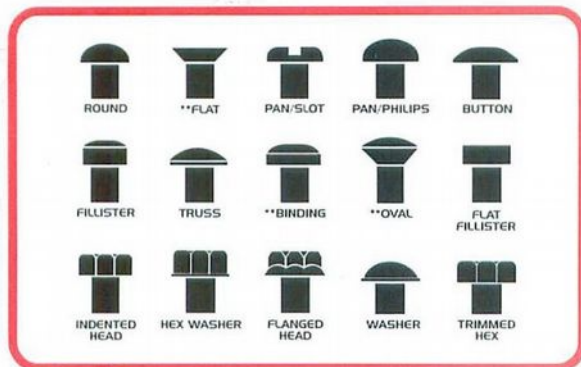
## STUD



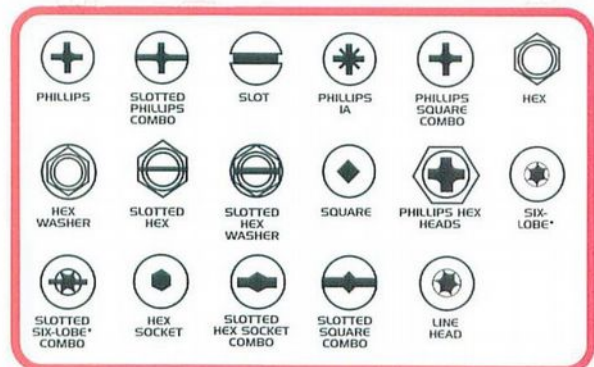




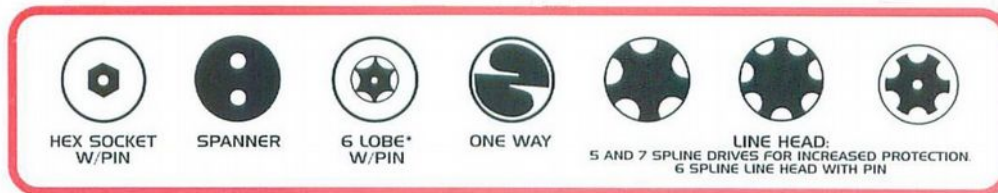
# HEADS/RECESSES-DRIVES & POINT STYLES



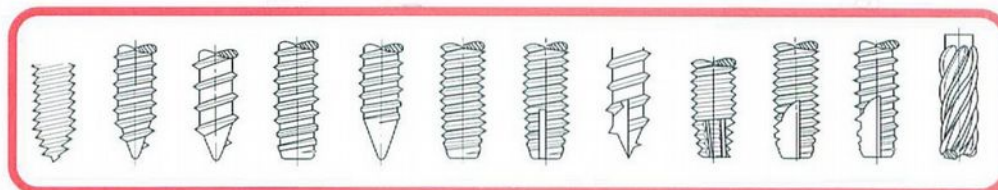
HEAD STYLES



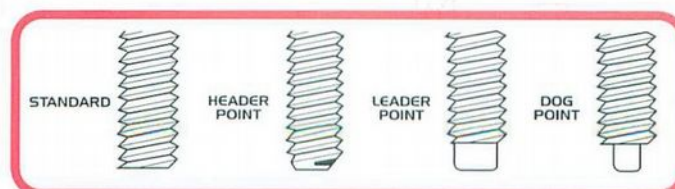
RECESSES-DRIVES



TAMPER SECURITY DRIVES



TYPE DESIGNATIONS OF TAPPING SCREWS & METALLIC DRIVE SCREWS



MACHINE SCREW STYLES

## Fastener Categories



### Wood Screws

Screws with a smooth shank and tapered point for use in wood. Abbreviated WS



### Machine Screws

Screws with threads for use with a nut or tapped hole. Abbreviated MS



### Thread Cutting Machine Screws

Machine screws with a thread cutting (self tapping) point.



### Sheet Metal Screws

Fully threaded screws with a point for use in sheet metal. Abbreviated SMS



### Self Drilling SMS

A sheet metal screw with a self drilling point.



### Hex Bolts

Bolts with a hexagonal head with threads for use with a nut or tapped hole. Abbreviated HHMB or HXBT.



### Carriage Bolts

Bolts with a smooth rounded head that has a small square section underneath.



### Lag Bolts

Bolts with a wood thread and pointed tip. Abbreviated Lag.



### Socket Screws

Socket screws, also known as Allen Head, are fastened with a hex Allen wrench.



### Set Screws

Machine screws with no head for screwing all the way into threaded holes.



### Eye Bolts

A bolt with a circular ring on the head end. Used for attaching a rope or chain.



### Eye Lags

Similar to an eye bolt but with wood threads instead of machine thread.



### J-Bolts

J shaped bolts are used for tie-downs or as an open eye bolt.



### U-Bolts

Bolts in U shape for attaching to pipe or other round surfaces. Also available with a square bend.



### Shoulder Bolts

Shoulder bolts (also known as stripper bolts) are used to create a pivot point.



### Elevator Bolts

Elevator bolts are often used in conveyor systems. They have a large, flat head.

**Pan or Binding  
Head**



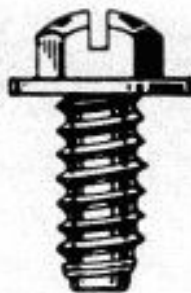
**Type F  
Thread**

**Round  
Head**



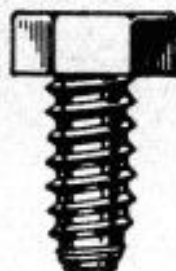
**Type A  
Thread**

**Acorn  
Head**



**Type Z  
Thread**

**Hexagon  
Head**



**Type Z  
Thread**

**Flat  
Head**



**Type A  
Thread**

**Truss or  
Oven Head**



**Type A  
Thread**

**Oval  
Head**



**Type F  
Thread**

**Metal  
Drive Screw**

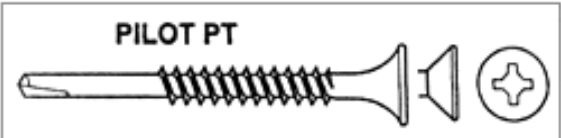
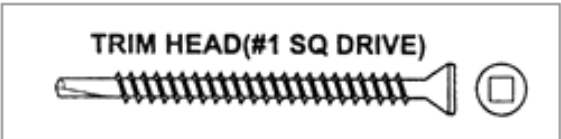
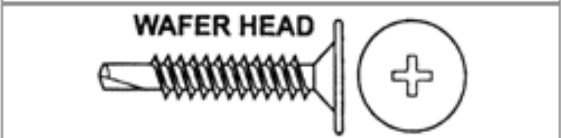
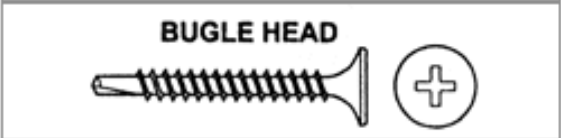
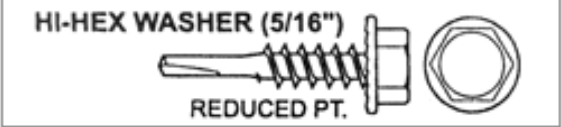
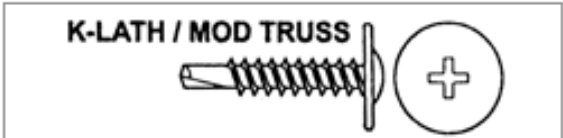
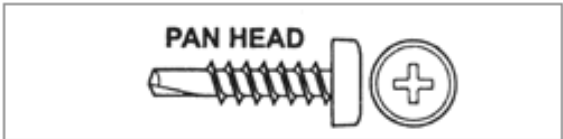
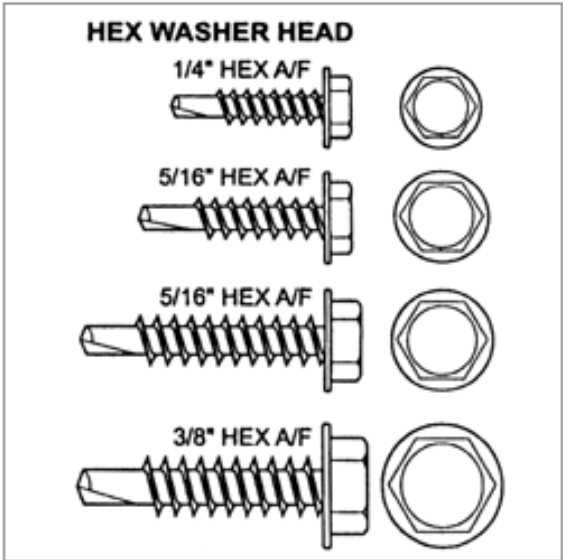
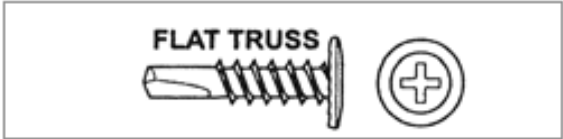


**Type U  
Thread**

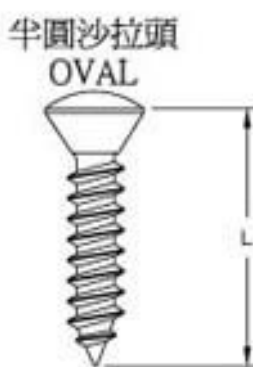
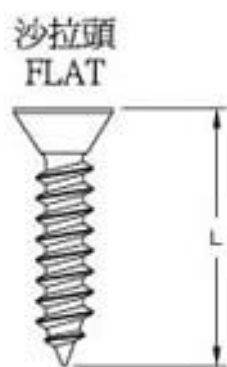
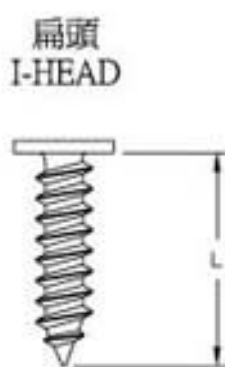
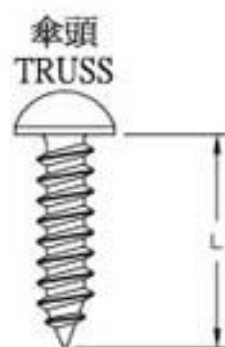
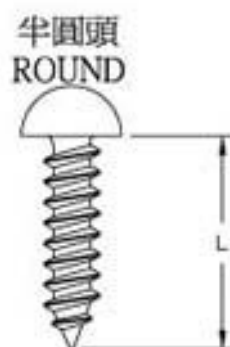
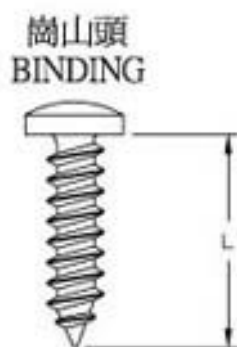
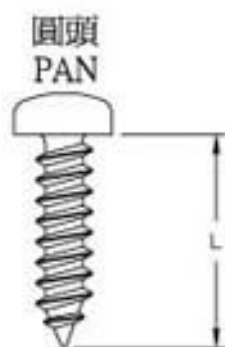
**Sheet Metal  
Drive Screw**



**Type 21  
Thread**



# 螺紋長度計量方法 Measurement of the length of SCREWS







Slot



Phillips



Pozidriv



Square



Robertson



Hex



Bristol



Hex socket



Security hex socket



Torx



Security Torx



Tri-Wing



Torq-set



Pentalobular



Spanner head



Triple square



Polydrive



One-way


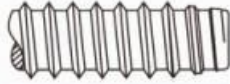
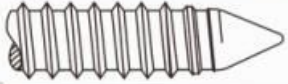


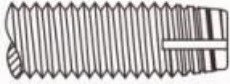


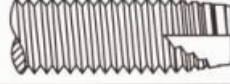

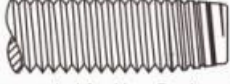



Spline drive



Double hex

**Table 1 Type Designations for Tapping Screws and Metallic Drive Screws**

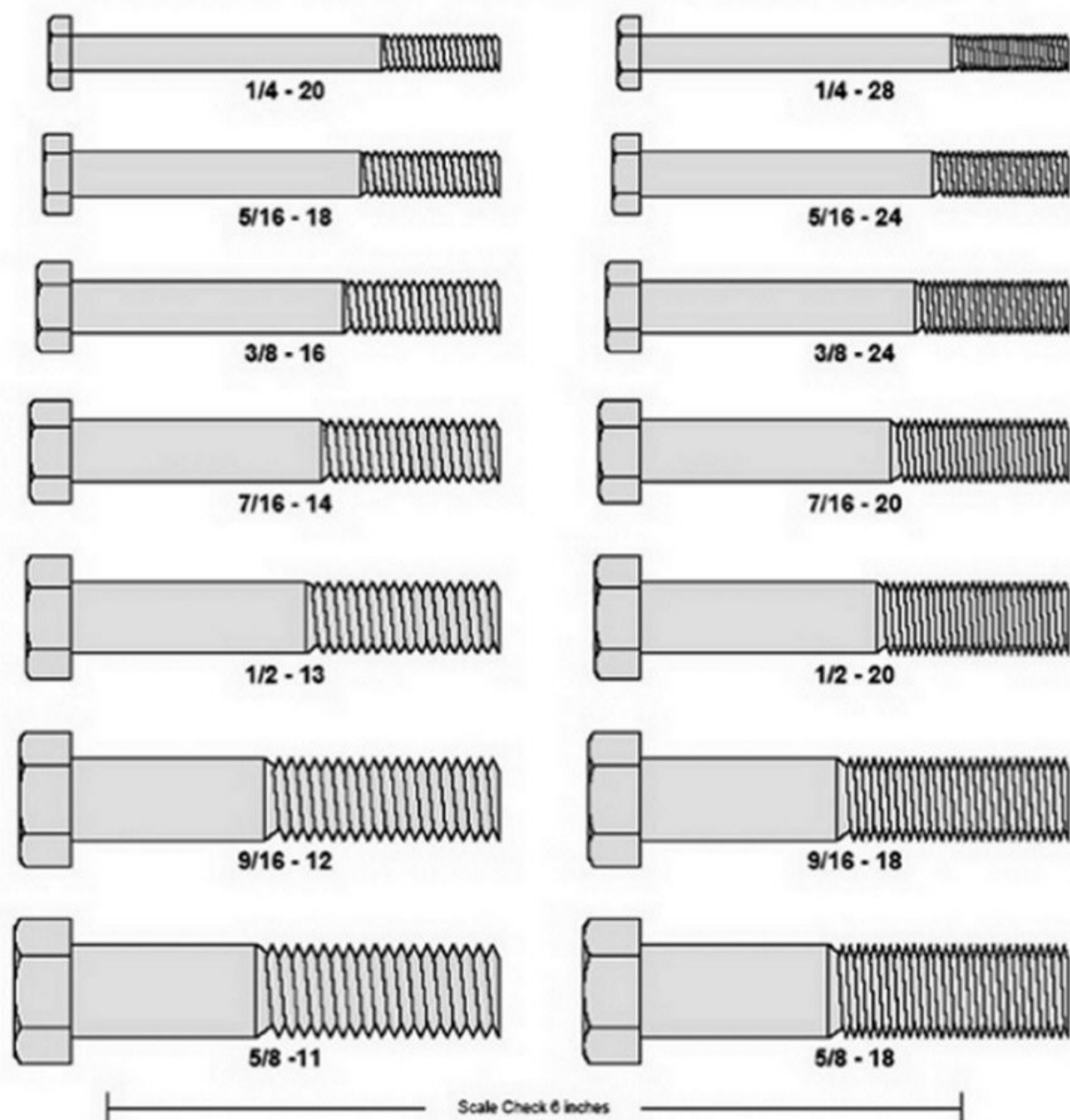
Pictorial Representations of Screw Types	ANSI/ASME Standard Designation	Manufacturer's Designation	See Table/Appendix
	AB [Note (1)]	AB [Note (1)]	Table 6 page H-26
	B	B	Table 7 page H-27
	BP	BP	
	BF	BF	Table 8 page H-28
	BT	25	
	D	1	Table 9 page H-29
	F	F	
	G	G	
	T	23	
 <i>Not Recommended – Use Type AB [Note (2)]</i>	A [Note (2)]	A [Note (2)]	Appendix E
 <i>Not Recommended for New Designs [Note (3)]</i>	C [Note (3)]	C [Note (3)]	Appendix V
	U	U	Table 30 page H-66

**NOTES:**

- (1) Formerly designated "Type BA".
- (2) See Paras. 1.3.1.1 and 1.3.1.4.
- (3) See Para. 1.3.1.5.

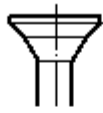
90 deg elbow	Tee fitting	Red tee fitting	M/F elbow	Cross fitting
				
45 deg elbow	Union fitting	Hex head cap	Reducer fitting	Y-way fitting
				
Reducer nipple	Square plug fig	Hex plug fitting	Hex nipple	Lock nut
				
Hose Nipple fitting	Full coupling	Half coupling	single nipple	socket plain fig
				

## STANDARD HEX BOLT SIZES AND THREAD PITCHES





Countersunk  
(Flat)



Double  
Countersunk



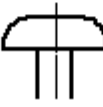
Countersunk  
(Oval),  
Raised



Bugle Head



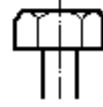
Round head,  
Domed



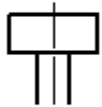
Button Head



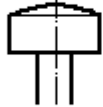
Pan Head



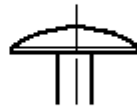
Hex Head



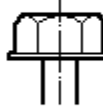
Cheese  
Head



Fillister  
Head



Flange, Truss,  
Oven, or Stove  
Head



Washer Hex  
Head