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SQUARE, HEX, HEAVY HEX, AND ASKEW HEAD BOLTS AND HEX, HEAVY HEX, HEX FLANGE, LOBED HEAD, AND LAG SCREWS (INCH SERIES)

1 INTRODUCTION

1.1 Scope

1.1.1 This Standard covers the dimensional requirements for nine product types of inch series bolts and screws recognized as American National Standard. Also included are appendices covering gaging procedures, grade markings for bolts and screws, formulas on which dimensional data are based, and a specification to assist in identifying a product as being a screw or a bolt. Where questions arise concerning acceptance of product, the dimensions in the tables shall govern over recalculation by formula. Heavy hex structural bolts, formerly covered in ASME B18.2.1, are now covered in ASME B18.2.6.

1.1.2 The inclusion of dimensional data in this Standard is not intended to imply that all of the products described herein are stock production sizes. Consumers should consult with suppliers concerning lists of stock production sizes.

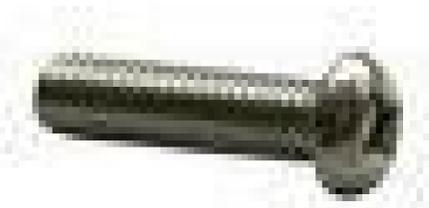
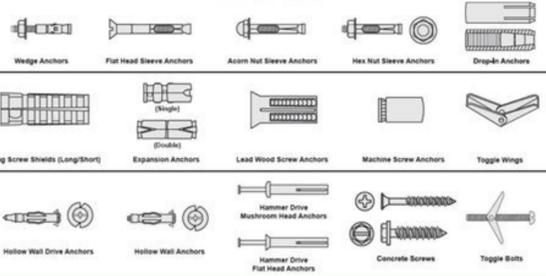
that is required to be threaded for full length, whereas "long bolt" or "long screw" means a bolt or screw of a diameter-length combination that is not threaded for full length.

body length, L_b : the distance measured parallel to the axis of the bolt or screw from the underhead bearing surface to the last scratch of thread or, for rolled threads, to the top of the extrusion angle. Where specified, the minimum body length ($L_b, \text{min.}$) is a criterion for inspection.

grip gaging length, L_g : the distance measured parallel to the axis of the bolt or screw from the underhead bearing surface to the face of a noncountersunk, noncountersunk standard GO thread ring gage assembled by hand as far as the thread will permit. The maximum grip gaging length ($L_g, \text{max.}$) is a criterion for inspection.

point length: the length from the pointed end to the first fully formed thread at major diameter as determined by the distance that the point enters into a cylindrical

Anchors



Types of screws nuts and bolts. Types of furniture screws and bolts. Different types of screws and bolts. Types of screws and bolts pdf. What are different types of screws. Different types of screws and bolts & nuts. Types of screws and bolts for wood. Types of nails screws and bolts.

If you are a homeowner, chances are that you will need to use screws on more than one occasion. But if you have ever been to the hardware aisle at your local home center, you know that there are a large variety of screws to choose from. Even though most screws look similar, they are all designed with a specific purpose in mind. So, what screw should you use for your project? Here are 7 screw types that every DIYer should know. Screws For Any Project Screws are extremely versatile and come in all sizes, shapes & materials. Norfolk Hardware & Home Center in Boston, MA has the largest variety of screws & fasteners for any DIY project. We also have experts to help you decide which fasteners would be best for your upcoming project. Stop by the store today to pick some up today! Source: DoltBest.com Screw and bolts have been special types of joints used in almost all applications to put parts together. They are fasteners made from metal having a head at one end, and a point at the other end. Although the bolt is not point-ended and it may require a nut to tightly lock. Screws and bolts are commonly used on woodworking and metalworking projects. Today you'll get the various types of screws and bolts in their various applications. Read more: Understanding screw and bolt Types of screw and bolt The various types of screw and bolt can be categorized into the following: Countersunk heads 1. Decking screws 2. Pan-head screws 3. Hex cap screws 4. Carriage bolts 5. Lag bolts 6. Hammer drive screws 7. Square head bolts 8. Socket-head cap screws 9. Oval head screws Non-countersunk heads 10. Wood screws 11. Sheet metal screws 12. Thread-rolling screws 13. Socket-head screws 14. Set screws 15. Weld screws 16. Raised or slotted cheese screws 17. Fillister head screws 18. Drywall screws Read more: Understanding rivets and riveted joints Combination heads 19. Concrete or masonry screws 20. Machine screws 21. Modified truss screws 22. Washer-faced screws 23. Thread-cutting machine screws 24. Self-drilling SMS 25. Self-tapping screws 26. Framing screws Tamper-resistant heads 27. Tamper-resistant screws Screw-type bolts 28. Sex bolts 29. Eyebolts 30. J-bolts 31. U-bolts 32. Shoulder bolts 33. Elevator bolts 34. Hanger bolts Countersunk heads Below are the various types of screws and bolts with countersunk heads. Decking screws Decking screws are made with stainless steel or carbon steel, designed to work on wooden or composite boards to metal or wood. They are available in various widths and lengths and they are suitable for fastening decking boards to frames. This is why they are ideal for shipbuilding, exterior fence-building, and they are widely used to fasten wooden chairs. Pre-drilled holes are not required in decking screws. Pan-head screws The pan head screws have flat head with rounded sides, used mostly for metal applications. they are similar to rounded oval head screws, only that the oval head types are also rounded on top, whereas the pan-head screws are flat heads. The pan head screws are also available in slotted heads with a single cut, making them compatible with the screw drive of any screwdriver. Hex cap screws These types of screws are large-sized bolts with a hexagonal head, just as they are named. They are used to join wood or metal to wood and they feature a flat washer under the screw head and provide precise applications. Hex screws consist of tiny threads that make them ideal for interior home improvement projects or stainless-steel exterior tasks. Carriage bolts These types of bolts are specifically used in woodworking projects to attach metal to wood. They have a domed head to prevent loosening and their large head shape prevents them from getting pulled through the wooden construction. Carriage bolts are also suitable for metal components because of their machine screw thread. However, installing them on metals can be impossible or difficult because they are not compatible with drill adaptors. Read more: Everything you need to know about fasteners Lag bolts Lag screws feature hexagonal heads and are designed for high-impact applications. they are commonly used on desk and wood-retaining sidewalls. Lag bolts are extremely durable, strong, and long-lasting. They are made of high-carbon steel for the core with an outer galvanized zinc, which protects them from rust and corrosion. Also, they are rust-resistant since moisture and air can't penetrate them. Hammer drive screws These drive screws are in the category of self-tapping screws, consisting of non-slotted rounds used for attaching nameplates or signs as well as for sealing drain holes. Hammer drive types of screws are also useful for rust-proofing tubular structures. These screws work similarly to nails since they are driven into holes using a hammer or mallet making the process faster to

assembly. Also, you should note the screw must be sturdier material than the mating part and a small pre-drilled hole is required for the succession of the operation. Finally, hammer drive screws are ideal for wall screws and other such applications. Squarehead bolts These types of bolts are very much similar to hexagonal-shaped cap screws. Only that, they have a 4-sided square head instead of a 6-sided hex head. The square head allows a better wrench grip during fastening. These types of bolts are also referred to as screws and are designed to be driven using a grip wrench. They are often used for aesthetic purposes, such as adding character to a new structure or to match the existing bolts in older buildings. Socket-head cap screws The socket-head cap bolts are employed for applications with tight or limited space. The bolts are suitable for applications where external wrench fasteners cannot fit in because of their cylindrical features and inner wrenching capability. These types of screws are commonly used in the automotive industry, machine tools, mining machinery, and other engineering applications. Read more: Understanding mechanic toolset Oval head screws Oval head screws are designed to be undercut or trim heads with shorter screw lengths to allow longer thread grip. The oval undercut head screws feature a shallower countersunk. The oval countersunk screw head includes an aesthetically pleasing rounded finish top which is why they are ideal for covering switches. Also, they are excellent choices when the final product needs to be appealing. The stainless-steel screws are strong and durable. Non-countersunk heads Below are the various types of non-countersunk head types of screws and bolts. Wood screws These types of screws consist of a threaded shaft and are used to join wood to wood. They have different thread times and are available in a range of different heads. Wood screws are also used to attach thin materials to wood. Apart from the regular screw made from stainless steel or brass, there are flat and round heads. The flat-head screws are highly useful for securing hinges. These types of screws can fasten to pieces of sheet metal together with tubing or other metal types. Flat, hex, and round are the various types of sheet metal screw heads available. These slotted screws are produced from pure steel with a weather-proof coating of stainless steel or aluminum. Welding industries make use of these types of screws. Read more: Understanding the various types of fasteners Thread-rolling screws In the case of these screws, threads are created by exerting pressure against the material’s walls instead of cutting threads into the material. They are ideal for softer materials, such as wood, plastic, or nylon. The double lead thread style minimizes torque and enhances pullout power. This prevents the material from cracking or damage. Some thread-rolling screws feature widely-spaced threads that make them easier to install into pre-drilled holes. Socket-head screws The socket-head screws are ideal when a fastener is needed to sit below a material’s surface. They are highly strong and reliable, and they are exceptionally resistant to corrosion. Also, they are attractive and gives a quality finish. Set screws These types of screws are used to fasten an object to or against another object. For instance, gear or pulley is secured to a shaft using a set screw. Set screws are fully threaded without a head sticking out. Also, they are available in different shapes and sizes. The most common variation includes flat set screws, knurled cup screws, and cup point screws. All these screws have different purposes. Weld screws Weld screws are welded to metal or aluminum surfaces to create a shaft for the components that are to be fitted or fastened. This can be achieved by using a washer and nut. The tabs of weld screws extend from the head so that hole drilling will not be required. The welding stud will then be fastened to a metal piece. These types of screws are frequently used in the automotive, industrial, marine, construction, cookware, and aerospace industries. Read more: Different types of hammer used in various field Raised or slotted cheese screws These types of screws are made from stainless steel and are designed with a round, raised head. The height of the cheese head is almost equal to half the head’s diameter. Raised or slotted screws can be used in underwater projects because they are extremely rust and corrosion-resistant. They are also used in industrial, electrical, telecommunication, and automotive lighting applications. Fillister head screws The fillister head screws are slotted head machine fasteners designed with a large oversized head. They are used for attaching metal or wood to metal. They are also referred to as cheese head screws and they are similar to pan head machine screws but with bigger side height. The head of these screws is perfect for counterbored holes. Drywall screws Drywall screws are standard fasteners for securing partial or full sheets of drywall to the wall or ceiling joist. They are available in two types including coarse drywall screws mostly used for wood studs. They are widely threads, effective in gripping into the wood. On the other hand, fine drywall screws are self-threading, which makes them perfect for metal studs. They have double threads for easier and more practical self-starting. Read more: Different types of sheet metals work tools Combination head Below are the various types of screws and bolts with combination heads. Concrete or masonry screw These types of screws are available in all kinds of head designs, from flat and pan to slotted hex. The pan and flat head screws look appealing when installed on the surface of a material. While a hex-head slotted screw is easier to drive in because of the high-low threading design of the screws. They offer durable and solid results in attaching to concrete or stone. masonry screws have corrosion coating that increases their durability and high-pressure strength. Machine screws Machine screws are used to hold parts of machines in industries, such as electronics, engineering, and manufacturing equipment. The screws are designed specifically to fasten to a tapped hole on a surface with a nut included. Their blunt ends are used to attach metal parts. Different materials can be used to make a making screw, such as brass, stainless steel, nylon, and carbon steel. Modified truss screws Modified truss screws are the self-tapping screws that are referred to as round washer heads or wafer heads. Different industries like HVAC, sheet metal, and woodworking. The screws can be used to attach the air conditioner’s ductwork parts or for insulation installation on wood and metal surfaces. They can also be used for simple metal or aluminum framing work. A larger truss head provides a bigger bearing surface area for fastening metal frames. Washer-faced screws These types of screws or bolts come in several types of washers acting as springs. They help to reduce the distance between the head of a nut and bolt. Furthermore, on their spring feature, some of the screws have teeth that penetrate the surface and lock the screw-head to the workpiece. Washer-faced screws are also known as shaker-proof lock washers with twisted-out teeth. Read more: Different types of sheet metal forming processes Thread-cutting machine screws These machine screws consist of sharp edges which is why the depth hole should be a litter longer than the screw. This will avoid the material from getting trapped inside the device. The purpose of thread-cutting screws is to minimize the creation of internal device stresses, making them ideal for extremely stiff materials. Self-drilling SMS Self-drilling screws are available in various lengths of drill tips. The highest number is equal to a longer drill tip. One can also choose different point sizes based on their diameter. In this case, the material’s thickness will affect the length requirements of the point. These types of screws also have a variety of uses and types and are mainly used for fastening or joining sheet metal or steel to other metals. Self-tapping screws These types of screws tap their own thread themselves. In their installation, the hole must be drill slightly smaller than the screw’s diameter. Once drilled, the self-tapping screw can then be driven in. The thread of the screw will dig into the wood in the right diameter of the screw keeping it secure. Note, they are used on soft materials like wood. Self-tapping screws can be used in all kinds of materials like metal and brick, not just wood. However, on harder surfaces, it may be best to choose the self-tapping screws that have pointed tips on their thread to cut into the material. Read more: Different types of metals and their classifications Framing screws Framing screws are seen as multi-use fasteners for sheet metal, wood, laminate, composite decking, and cement fiberboard applications. they are designed to countersink into many different materials like hardwood flooring and brittle composite. These types of screws work very similarly to circular saw blades as they prevent the sawdust from getting to the edge of the screw hole. This allows the hole to be sealed without damaging the surface of the material. Tamper-resistant heads Below are the type of tamper-resistant heads screw and bolt. Tamper-resistant screws These types of screws or bolts are tamper-proof and are suitable for buildings or areas that are accessible by the public to prevent or deter vandalism. They are known as security screw types distinguished by their unconventional drive, which makes tampering or making it difficult to dismantle. Temper-resistant screws are mainly used for securing materials, such as car license plates, gutters, and grill bars in prisons. Read more: List of Benchmark hand tools and their uses Screw-type bolts Below are the various types of screw-type bolts. Sex bolts Sex bolts are much similar to mating screws. They are also referred to as interscrews, barrel nuts, partition screws, panel fasteners, binding posts, Chicago screws, and architectural sex bolts. These types of sex bolts are nut or fasteners with a barrel-shaped flange and pointed boss that’s internally threaded. The bolts with their accompanying machine screw sit on either side of a material or surface that requires securing. The nuts are employed due to their low-profile and built-in slot features, which help in locking the screw into the surface. Eyebolts These types of bolts are one of the most commonly used screws by both materials handling specialists and homeowners. Eyebolts consist of a threaded shank and a ring at one end. They are designed to lift objects by passing a rope or wire through their eye. They are widely used in industrial settings as larger-sized eye bolts are used for lifting and tensioning. Also, in welding industries, stainless steel eye bolts are ideal for harsh weather conditions. This makes them ideal for heavy-duty outdoor welding applications. Finally, they are used in homes for hanging decorations or plants on walls. J-bolts J types of bolts are J-shaped screws that are threaded on their flat side. They are often used in construction applications like connecting walls to stone or concrete foundations. The J-bolts with curved ends provide extra support and can be attached to concrete, serving as anchor fasteners. The long end of the screw comes in different lengths and they can be threaded using a hook. Read more: Understanding Hacksaw hand tools U-bolts U-bolts are industrial fasteners designed in the shape of U with two threaded legs or arms to provide a bent base. The threaded legs or arms are designed to be used with screws and washers. These bolts can also be used with a crosspiece for a more secure result. These types of bolts can be inserted in pre-drilled or punched holes. They are commonly used in plumbing, industrial, and construction works. Shoulder bolts These types of bolts are similar to that of machine screws, in fact, they are of the same category. They comprise the head, shoulder, and threading, with the head part having the largest diameter. Shoulder bolts are used in a variety of industries including automotive, wooden furniture making, construction. They are also used in pulley and linkages mechanisms and they can be found in exterior wooden structures. Elevator bolts Elevator bolts are widely used in various applications. they can secure any type of flooring, level wooden furniture legs. They are also common on skateboards and snowmobiles. In their design, the thread is standard right-hand and they can be long or short lengths that are fully threaded. The head of these types of bolts can be countersunk flat, shallow conical, square neck under the head, or a unified thread, and others. Finally, Hanger bolts Hanger types of bolts are headless screws used mainly for wooden material to provide an additional external thread. They are also used to create an internal fastening joint. In their design, one side of the hanger bolt thread together with a self-tapping lag screw, grips into the wood. While the other side of the bolt has machine screw threads for a nut. This is why hanger bolts are very useful in storm shutter applications. although they are also common in furniture making, framing, and flooring joints. Read more: Types of woodworking hand and portable tools That is all for this article, where the various types of screws and bolts are discussed. I hope you get a lot from the reading, if so, kindly share with other students. Thanks for reading, see you next time!



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