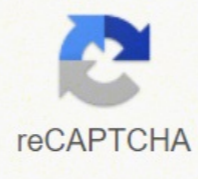




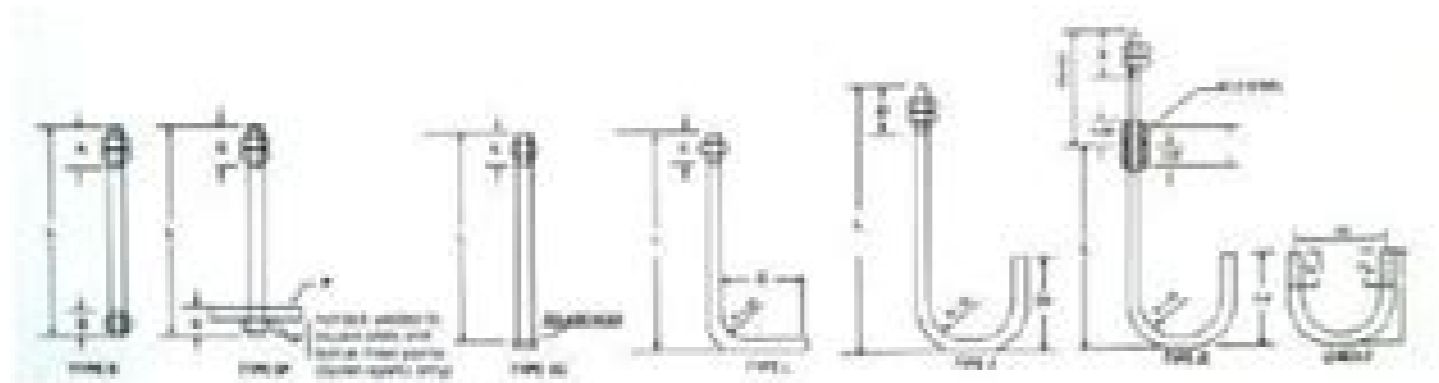
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Anchor Bolts - Metric Series



Anchor Thread Diameter	Dimensions mm								Cutting Length mm											
	A	B	C	D	E	F	G	H	Type											
	Square Plate		S	SP	SO		L		J		JE									
	T	W	L	L	L	Cut Length	L	Cut Length	L	Cut Length	L	Cut Length	L	Cut Length						
M12	40	14	40	45	100	—	50	39	10	75	330	330	355	381	355	455	410	542	—	—
M16	50	19	40	45	100	—	65	35	12	90	400	400	395	384	395	495	420	595	—	—
M20	60	2	50	75	150	50	75	39	12	90	480	480	455	442	455	555	485	705	555	575
M22	70	25	50	75	150	50	80	48	16	100	570	570	460	438	460	610	545	787	475	607
M24	85	33	55	80	150	65	90	55	20	100	700	700	510	553	510	710	615	874	475	739
M27	—	—	75	100	200	75	—	—	—	—	—	—	—	560	610	760	675	970	535	832
M30	100	36	75	110	200	85	110	64	20	125	820	820	610	607	610	810	735	1065	596	926
M33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	660	880	860	1160	655	1318
M36	115	42	80	125	200	95	115	78	25	150	1010	1010	—	—	710	910	865	1261	715	1131
M39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	760	960	920	1354	770	1189
M44	130	49	115	150	250	120	130	85	25	175	1200	1200	—	—	815	1070	990	1452	830	1260
M48	150	56	125	160	250	125	—	—	—	—	—	—	—	—	915	1170	1120	1648	956	1484
M56	170	63	140	180	250	145	—	—	—	—	—	—	—	—	1015	1270	1245	1861	1070	1606
M64	190	70	160	200	250	180	—	—	—	—	—	—	—	—	1120	1375	1370	2074	1190	1894

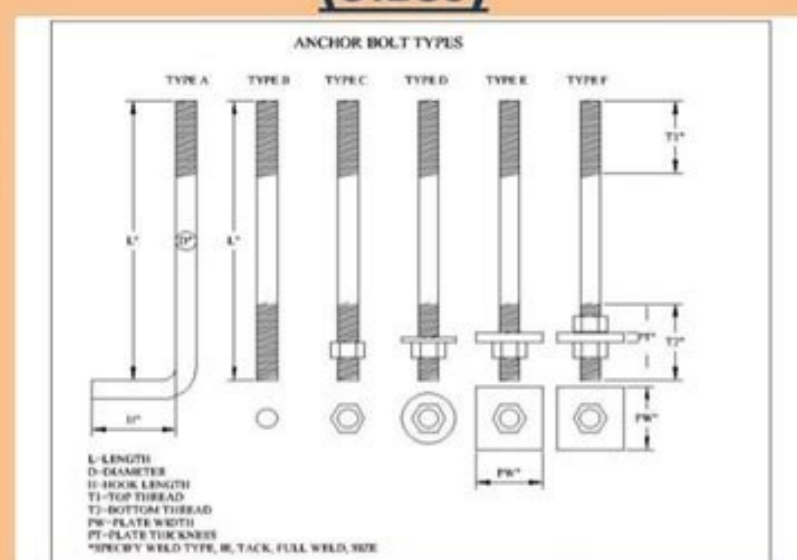
Material: ASTM A 36/JIS D3123/SS41 or ANSI 1018

Surface Finish: Self / Electro Galvanized / Hot Dip Galvanized

d = Body Diameter

In U Bolt - ID (Inside Diameter) T/L and L (Total Length) as per customer requirements.

Anchor Bolt (Sizes)



PERFORMANCE TABLE (EXAMPLE)

Anchor Bolt Type	Material	Grade	Surface	Min. Embedment Depth (mm)	Min. Edge Distance (mm)	Min. Spacing (mm)
M12	Carbon Steel	4.8	Plain	40	25	50
M16	Carbon Steel	4.8	Plain	50	35	70
M20	Carbon Steel	4.8	Plain	60	45	90
M24	Carbon Steel	4.8	Plain	75	55	110
M27	Carbon Steel	4.8	Plain	90	65	130
M30	Carbon Steel	4.8	Plain	100	75	150
M36	Carbon Steel	4.8	Plain	125	95	190
M44	Carbon Steel	4.8	Plain	150	120	230
M48	Carbon Steel	4.8	Plain	170	140	270
M56	Carbon Steel	4.8	Plain	190	160	310
M64	Carbon Steel	4.8	Plain	210	180	350

DIN933

Material: Carbon Steel, Stainless Steel
 Grade: 4.8, 6.8, 8.8, 10.9, 12.9
 Surface: Plain, Black, Zinc-plate, HDG

d1	M6	M8	M10	M12	M14	M16	M20	M22	M24
P	1	1.25	1.5	1.75	2	2	2.5	2.5	3
f	10	13	17	19	22	24	30	32	36
h	4	5.3	6.4	7.5	8.8	10	12.5	14	15
L	2-200								

BOLT DIAMETER	HEAD / WRENCH / SOCKET SIZE	
	Hex Bolt / Lag Bolt / Square Bolt	Heavy Hex Bolt
#6	1/4"	-
#8	1/4"	-
#10	5/16"	-
#12	5/16"	-
1/4"	7/16" or 3/8"	-
5/16"	1/2"	-
3/8"	9/16"	-
7/16"	5/8"	-
1/2"	3/4"	7/8"
9/16"	13/16"	-
5/8"	15/16"	1-1/16"
3/4"	1-1/8"	1-1/4"
7/8"	1-5/16"	1-7/16"
1"	1-1/2"	1-5/8"
1-1/8"	1-11/16"	1-3/4"
1-1/4"	1-7/8"	2"

Anchor bolts. What size anchor bolts do i need.

The pitch of a metric bolt is the amount of space between each thread, and pitch is also measured in millimeters. If pitch isn't specified on a bolt, it's safe to assume it's coarse. Larger length numbers indicate longer bolts. See the main features: Design of CELO Fixings heavy duty anchors - metal and chemical anchors in concrete. Measure the bolt thread pitch using a thread pitch gauge, which you can buy in most tool or auto parts stores. Flexible anchor positioning for various base plate geometrics. Metric bolt length will be measured in millimeters.In most metric charts, measurements are listed in order of diameter, pitch and length. The length of the bolt is important to create a secure connection. This will give you the number of threads per inch, if you are measuring a standard bolt or the distance between each thread for metric bolts. The nut, or a washer which is flatter than a nut holds the bolt tight. Endurance test - check or uncheck the box; performed in the presence of dynamic loads. Fasteners might include machine screws, wood screws, hex bolts, carriage bolts and hex nuts. One measurement is the diameter of the bolt, which is measured at the outside of the threads. Here's a hint on how to determine the length bolt you need, according to Lowes.com:Determine the thickness of the material that the bolt needs to join. Next, divide one by the answer, and you'll know the threads per inch.Printing a Metric Bolt ChartSet your printer to actual size for printing, and print out a metric bolt chart so you can use it to identify bolts. There are common bolt types for specific applications, according to DoYourself.com:Carriage bolts: Used for woodworking projects when you don't want a protruding fastener Stove bolt: General fastener with slotted heads and threaded bodies Machine/Hex bolts: Also a general fastener used with ratchets and wrenches J-bolts, U-bolts and eyebolts: Used as hooks There are also various nuts, and washers, that you can get to know, according to Lowes.com:Lock nut: Has a hex head and threaded to prevent loosening up Wing nut: Used if you're removing and replacing frequently because the nut can be removed by hand Hex or square nut: Most common nut with square or hex-shaped head Flat washer: Common washer to prevent leaking from bolted part Lock washer: Has teeth for gripping bolt Materials and Grades of Nuts and BoltsNuts and bolts come in strong materials and different grades, according to DoYourself.comStainless steel: Most costly but won't corrode; steel-plated are best for outdoor use Galvanized: Coated in zinc to resist corrosion Grade 8 bolts: Hardened for extreme strength and safety Grade 5 bolts: Not as strong as grade 8 bolts; suitable for indoor use Sizing Nuts and BoltsThere are three ways to size nuts and bolts to make sure you get the right ones for your project, according to HowToGeek:Hardware and home stores may have sizing plates which, of course, only works on nuts and bolts you can bring with you. On a standard (US) bolt, lines or slash marks on the head indicate grade or strength. It takes into account internationally recognized regulations such as the European directive ETAG 001 and EN 1992-4:2018, method A. The thread diameter is what is referred to as the bolt's size on the product package. The bolt chart will contain a sequence of numbers and abbreviations, which you'll need to understand, so you can be sure you have the correct bolt.Identifying the FastenerThe metric bolt chart will likely have a notation that indicates the type of fastener listed. Perfect for planners and architects. For metric bolts, you'll find the diameter measurement in millimeters. Within these different fastener categories, you may also find information about the head type, such as hex, pan, truss or flat. Determine the bolt strength. Some charts will list a capital "M" before diameter without any other abbreviations.Threads per MillimeterThe coarseness of threads is indicated differently, depending on whether a chart is for US or metric fasteners. Fast real time calculation. To figure out the size, you have to measure the hole. The drive type noted will tell you what type of tool you'll need to fasten the fastener, such as a square, slotted or Phillips screwdriver.Overview of Bolt MeasurementsBolt sizing involves several different measurements that combine to make up the overall bolt. Coefficient k0 - select from the list, coefficient depending on the type of structure, type of load and type of bolt. This code tells you how much torque (tightening) the bolt can withstand, and the vehicle service manual for your particular make and model will indicate the exact torque to apply. You will find two types of threads: Coarse thread (Unified National Coarse, or UNC) and fine thread (Unified National Fine, or UNF). For US fasteners, a chart will show the threads per inch or the thread count instead of the thread pitch or the distance between each thread. Intuitive user interface including 3 dimensional graphics. Bolt steel grade - choose from a list of two possible options according to SP 16.13330.2011 Concrete class - select the concrete class of the foundation from the list. The issue is the length of the bolt you'll need. MORE FROM QUESTIONSANSWERED.NET Jupiterimages/Photos.com/Getty Images The most common method to fasten components to engines, appliances, furniture and many other types of equipment is to use bolts. After you print the chart, check the scale of the chart against a ruler to make sure the scale is accurate. Determine the type of thread, if you are measuring a standard bolt. A pitch on a bolt is a numerical notation that describes its thread, according to DoYourself.com:Pitches can be fine, medium or coarse A pitch that has a fraction like quarter-inch (1/4) is the bolt's diameter A whole number of 12 means fine pitch, 24 means medium pitch and 36 means course pitch Bolts tend to include both the fraction and the whole number Other Tips on Choosing Nuts and BoltsWhat if you have a heavy piece of machinery that needs a bolt. You'll find an "x" between each measurement to separate them, and you may see the abbreviation "mm" after a measurement. N - normal force, positively directed downwards Nmin - the minimum normal force from which the shear force is determined M - moment in the plane of the column Q - horizontal load ls - length of the base plate of the column bs - column base plate width c - distance from the axis of the column to the bolt; the bolts are considered to be symmetrical; cannot be more than ls / 2 n - number of bolts on one side Bolt diameter - select from the list Bolt type - choose from the list: with bend, in the anchor plate, blind or removable, straight, tapered (spacer). Available in many languages. Metric bolts may have numbers on their heads for the same purpose. Coarse threads have a wider distance between each thread than fine threads. Measure the outside diameter of the bolt threads using a vernier caliper. They come in different sizes and configurations, depending on the specific part they need to hold in place. There are ways to figure out the right nut or bolt and the right size for your needs.Types of Nuts and BoltsNuts and bolts are used together as fasteners in various hobby, vehicle and household projects. Larger pitch numbers indicate coarser threads with fewer threads per millimeter. What Is the Pitch of a Bolt?You may have heard of the term "thread pitch" when it comes to nuts and bolts. However, before you go out to buy a replacement, you need to know exactly what bolt size and type you need. If you have an item that's too large to bring to a store, check the size you need with your own set of nut and bolt thread checkers to figure out the size you need. Use inches for standard bolts and millimeters for metric bolts. Measure the distance across the flat sides of the bolt head using the vernier caliper. Therefore, it is important to replace a worn out, damaged or lost bolt with the same type used by the manufacturer. This will give you the bolt length. Go to International site Measure the distance between the bottom of the bolt head and the opposite end of the bolt using the vernier caliper. Determine the weight and strength requirements of the bolt that's needed. All loads and dimensions can be displayed and handled in metric and imperial units. If you buy a bolt of lesser strength, it might break when you try to fasten it. Fixings and innovative solutions for pros at CELO The most intuitive software for the planning and calculation of CELO fixings and anchors We offer you a simple and intuitive software to design our mechanical and chemical heavy duty anchors under static loads and under the influence of earthquake. Click on the button to continue to the International site or close this tab. Great features. If you notice abbreviations "DIN," "ISO," "JIS" or "ANSI," these letters indicate the manufacturer. If you want to know how many threads per inch your metric fastener has, you'll need to convert the pitch from millimeters to inches by multiplying the listed pitch by 0.03937. Metric bolts will often list "DIN" or "ISO." MORE FROM QUESTIONSANSWERED.NET Close If you're missing a nut or bolt or nut and bolt or faced with a bin at the store filled with various-sized nuts and bolts, there's no need to scrap your project. Download here below this free software to design and calculate the loads and dimensions of our anchor fixings. Stress visualization of the base plate (FEM calculation). The length of the bolt is the last measurement, and this generally spans the length of the bolt, not including the head. When navigating a project that requires fasteners, you may encounter a metric bolt chart. The more lines it has, the stronger the bolt. Watch this video to see how it works Download Published: 2021-03-25 Welcome! You're visiting CELO Fixings Spain with the product offering available in your region. Then, place a bolt over the pictures of bolts on the chart to determine their diameter, pitch and length.Tips About Metric BoltsLarger diameter measurements indicate larger bolts. Coefficient α - select from the list, depends on the number of loading cycles. Professional and clear documentation. This measurement will give the size of wrench you would need to tighten this bolt. Free download of the design software (Windows PC and tablet). Print out a sizing chart from BoltDepot.com to help you identify sizes of loose nuts and bolts. When selected, the coefficient k0 automatically takes on the value for dynamic loads.

Torque Values Stainless Steel Bolt Table Chart | Stud Bolt Torque Chart | Stainless Steel stud bolt torque chart, Torque Values A2 or A4 Metric Stainless Steel Fasteners & Alloy 20 Stud Bolts Supplier ... s free threads (equals 1/3 time bolt diameter) n nut height (equals nominal bolt diameter) h flange (plate) ... Alloy 20 Stud Bolt Anchor ... We are supplier of BS 3692 Grade 8.8 Bolts, offer Genuine metric class 8.8 Jh Studs/Screw/anchor bolt with Mill TC. view 8.8 high tensile hex bolts tensile/shear strength/ hardness. Enquire Welcome to Bolt and Nut Online Megastore Proud to be Australian owned and operated. We are a Brisbane based online retailer supplying the largest selection of fasteners to the DIY, trade, manufacturer, maintenance contractor and government departments, hospitals, schools, councils and universities. The Free Dictionary's Idioms dictionary is the largest collection of English idioms and slang in the world. It contains more than 60,000 entries from several of the most trusted names in publishing. Search by keyword or full phrase to get clear, in-depth definitions of American idioms, British idioms, and idioms and slang from throughout the ... Children's Fairyland Book Festival: Saturday, June 18, 2022, 10 to 4. Meet more than 25 kid-lit authors and illustrators! For more information Discover all the collections by Givenchy for women, men & kids and browse the maison's history and heritage

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