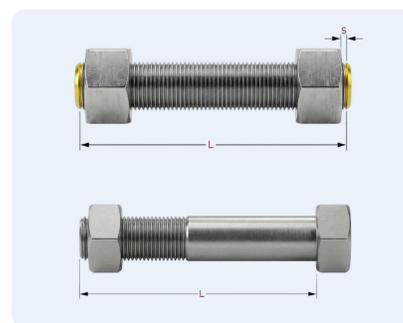


Stud Bolts And Fasteners

PRODUCT Stud Bolts And Fasteners

PRODUCT USAGE

PG Sealing supplies the complete range of stud bolts with extensive stocks of standard bolts for ANSI b16.5 flanges as well as raw material to produce specials and meet urgent demands. CNC machine centres are at the heart of our manufacturing facility in the UAE alongside state of the art measuring, marking, pmi and hardness testing equipment. Metric and imperial formats are offered in various thread types.

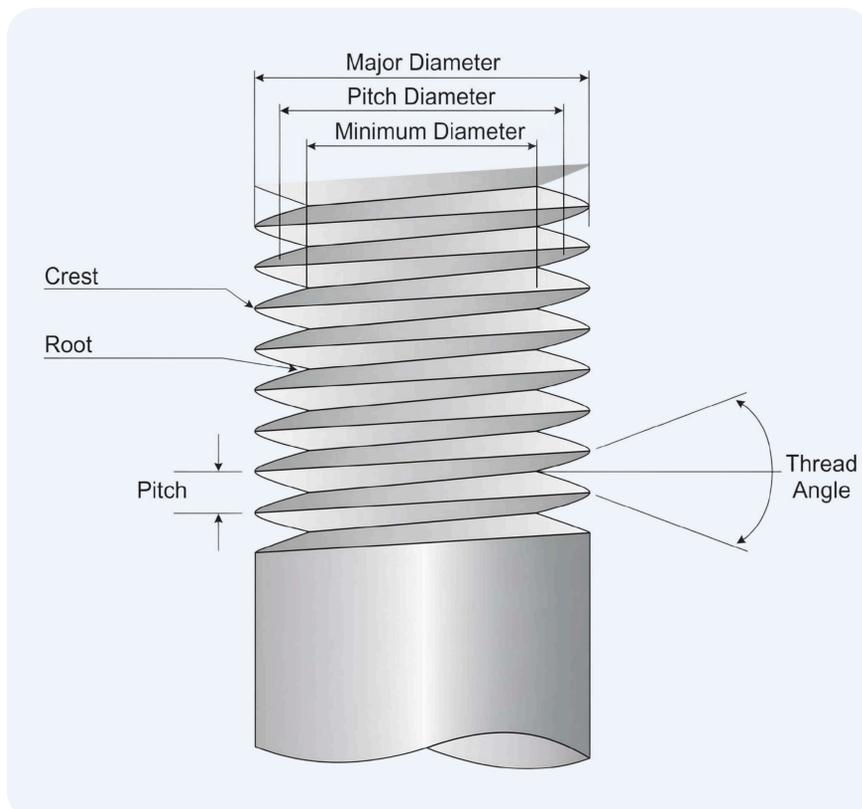


Fastener Materials

Carbon And Alloy Steels	Stainless Steels	Super (Nickel) Alloys & Duplex	Non-Ferrous
Mild Steel	303 / 304 (18-8 / A2) / 316 (A4)	Monel® 400	Aluminium
080M40 (EN8)	A2 & A4 - 50 / 70 / 80 / 90	Monel® K500	Aluminium Bronze
605M36 (EN16)	321 / 310 / 347	Inconel® 600 / 601 / 625 / 718	Aluminium Silicon Bronze
708M40 (EN19)	422	Incoloy® 800 / 800HT / 825	Phosphor Bronze
817M40 (EN24)	410 / 416 / 420 / 431	Hastelloy®	Manganese Bronze
826M40 (EN26)	B8 / B8M / B8T Class I & II	B2 / C4 / C22 / C276	Brass
B7	B8X / B8MX / B8TX	Ferralium® 255	Naval Brass
B5	B8C	UNS S32760	Copper
B16	B6	Zeron® 100	Cupro Nickel 70 / 30
BS 4882 B16A	C3 - 80	UNS S31254	Cupro Nickel 90 / 10
Durehete®	17-4 PH	UNS S31803	Hiduron® 191
Jethete® X19	FV520B	A453 660 A / B / D	Marinel®
42 Cr Mo 4	Nitronic® 50 / 60	Nimonic® 75 / 80A / 90	Plastic
24 Cr Mo 5	904L	Titanium Alloys	Nylon
21 Cr Mo V57	Tantalum	Carpenter® 20	PTFE

Stud Bolts And Fasteners

Surface Treatment				
Surface Treatment	ASTM	ISO	UNI 3740	BS 729
Hot Dip Galvanising	ASTM A 153	ISO 1461	--	--
Zinc Electroplating Yellow	ASTM B 633	UNI 4721	--	--
Zinc Electroplating White	ASTM B 633	UNI 4721	--	--
PTFE Xylan 1070 Blue, Green, Red, Yellow	--	--	--	--
PTFE Xylan 1024 Blue, Green, Red, Yellow	--	--	--	--
Ceramic Filled Fluorocarbon Xylar 1	--	--	--	--
Ceramic Filled Fluorocarbon Xylar 2	--	--	--	--
Ceramic Filled Fluorocarbon Xylan 1070	--	--	--	--
Silver Plating	ASTM B 254	ASTM B 700	--	--
Pickling And Passivation	ASTM A 380	--	--	--
Nickel Plating	ASTM B 689	--	--	--
Electroless Nickel Plating	ASTM B 733	--	--	--
Electroless Zinc-Nickel Plating	ASTM B 841	--	--	--
Geomet 321	ASTM F 1136	--	--	--
Geomet 500	ASTM F 1136	--	--	--
Zinc Phosphate	ASTM F 1137	--	--	--
Manganese Phosphate	ASTM F 1137	--	--	--



Advantages Of Fluorocarbon Surface Treatments.

- ✓ Xylan 1070, Xylan1024, Xylar 1
- ✓ Very low friction coefficient
- ✓ Wear resistance
- ✓ Corrosion resistance
- ✓ Chemical resistance
- ✓ Weathering resistant
- ✓ Wide temperature range
- ✓ Minus 195°c. to plus 260°c.
- ✓ Many colour options to
- ✓ Colour code service
- ✓ Excellent adhesion to range of substrates



Stud Bolts And Fasteners

ASME B16 1/2' Flange Class 150						Length Of Stud Bolts	
NPS	Outside Diameter Of Flange	Diameter Of Bolt Circle	Diameter Of Bolt Holes	Number Of Bolts	Diameter Of Bolts	Raised Face 1/16"	Ring Joint
1/2'	3.1/2	2.3/8"	5/8'	4	1/2'	2.1/4'	-
3/4'	3.1/8	2.3/4'	5/8'	4	1/2'	2.1/2'	-
1'	4.1/4	3.1/8'	5/8'	4	1/2'	2.1/2'	3
1.1/4'	4.1/2	3.1/2'	5/8'	4	1/2'	2.3/4'	3.1/4'
1.1/2'	5	3.7/8'	5/8'	4	1/2'	2.3/4'	3.1/4'
2'	6	4.3/4'	3/4'	4	5/8'	3.1/4'	3.3/4'
2.1/2'	7	5.1/2'	3/4'	4	5/8'	3.1/2'	4
3'	7.1/2	6	3/4'	4	5/8'	3.1/2'	4
3.1/2'	8.1/2	7	3/4'	8	5/8'	3.1/2'	4
4'	9	7.1/2'	3/4'	8	5/8'	3.1/2'	4
5'	10	8.1/2'	7/8'	8	3/4'	3.3/4'	4.1/4'
6'	11	9.1/2'	7/8'	8	3/4'	4	4.1/2'
8'	13.1/2	11.3/4'	7/8'	8	3/4'	4.1/4'	4.3/4'
10'	16'	14.3/4'	1"	12	7/8'	4.1/2'	5
12'	19	17	1"	12'	7/8'	4.3/4'	5.1/4'
14'	21	18.3/4'	1.1/8"	12	1	5.1/4'	5.3/4'
16'	23.1/2	21.1/4'	1.1/8"	16	1	5.3/4'	5.3/4'
18'	25	22.3/4'	1.1/4'	16	1.1/8"	5.3/4'	6.1/4'
20'	27.1/2	25	1.1/4'	20	1.1/8"	6.1/4'	6.3/4'
24'	32	29.1/2'	1.1/4'	20	1.1/4'	6.3/4'	7.1/4'

ASME B16 1/2' Flange Class 300						Length Of Stud Bolts	
NPS	Outside Diameter Of Flange	Diameter Of Bolt Circle	Diameter Of Bolt Holes	Number Of Bolts	Diameter Of Bolts	Raised Face	Ring
1/2"	3.3/4"	2.5/8"	5/8'	4	1/2"	2.1/2"	3
3/4"	4.5/8"	3.1/4"	3/4"	4	5/8"	3	3.1/2"
1"	4.7/8"	3.1/2"	3/4"	4	5/8"	3	3.1/2"
1.1/4"	5.1/4"	3.7/8"	3/4"	4	5/8"	3.1/4"	3.3/4"
1.1/2"	6.1/8"	4.1/2"	7/8"	4	3/4"	3.1/2"	4
2"	6.1/2"	5	3/4"	8	5/8"	3.1/2"	4
2.1/2"	7.1/2"	5.7/8"	7/8"	8	3/4"	4	4.1/2"
3"	8.1/4"	6.5/8"	7/8"	8	3/4"	4.1/4"	4.3/4"
3.1/2"	9	7.1/4"	7/8"	8	3/4"	4.1/4"	5
4"	10	7.7/8"	7/8"	8	3/4"	4.1/2"	5
5"	11	9.1/4"	7/8"	8	3/4"	4.3/4"	5.1/4"
6"	12.1/2"	10.5/8"	7/8"	12	3/4"	4.3/4"	5.1/2"
8"	15	13	1"	12	7/8"	5.1/2"	6
10"	17.1/2"	15.1/4"	1.1/8"	16	1"	6.1/4"	6.3/4"
12"	20.1/2"	17.3/4"	1.1/4"	16	1.1/8"	6.3/4"	7.1/4"
14"	23	20.1/4"	1.1/4"	20	1.1/8"	7	7.1/2"
16"	25.1/2"	22.1/2"	1.3/8"	20	1.1/4"	7.1/2"	8
18"	28	24.3/4"	1.3/8"	24	1.1/4"	7.3/4"	8.1/4"
20"	30.1/2"	27	1.3/8"	24	1.1/4"	8	8.3/4"
24"	36	32	1.1/2"/8"	24	1.1/2"	9	10

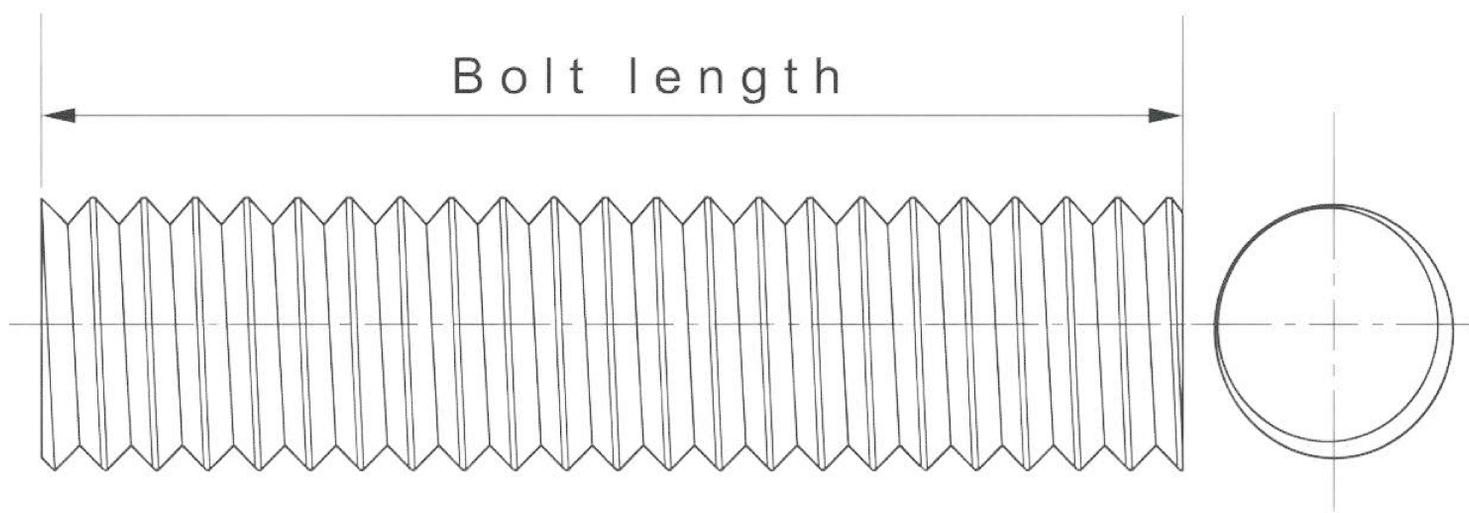
ASME B16 1/2' Flange Class 600						Length Of Stud Bolts	
NPS	Outside Diameter Of Flange	Diameter Of Bolt Circle	Diameter Of Bolt Holes	Number Of Bolts	Diameter Of Bolts	Raised Face 1/16"	Ring Joint
1/2"	3.3/4"	2.5/8"	5/8"	4	1/2"	3	3
3/4"	4.5/8"	3.1/4"	3/4"	4	5/8"	3.1/2"	3.1/2"
1"	4.7/8"	3.1/2"	3/4"	4	5/8"	3.1/2"	3.1/2"
1.1/4"	5.1/4"	3.7/8"	3/4"	4	5/8"	3.3/4"	3.3/4"
1.1/2"	6.1/8"	4.1/2"	7/8"	4	3/4"	4.1/4"	4.1/4"
2"	6.1/2"	5	3/4"	8	5/8"	4.1/4"	4.1/4"
2.1/2"	7.1/2"	5.7/8"	7/8"	8	3/4"	4.3/4"	4.3/4"
3"	8.1/4"	6.5/8"	7/8"	8	3/4"	5	5
3.1/2"	9	7.1/4"	1"	8	7/8"	5.1/2"	5.1/2"
4"	10.3/4"	8.1/2"	1"	8	7/8"	5.3/4"	5.3/4"
5"	13	10.1/2"	1.1/8"	8	1"	6.1/2"	6.1/2"
6"	14	11.1/2"	1.1/8"	12	1"	6.3/4"	6.3/4"
8"	16.1/2"	13.3/4"	1.1/4"	12	1.3/8"	7.1/2"	7.3/4"
10"	20	17	1.3/8"	16	1.1/4"	8.1/2"	8.1/2"
12"	22	19.1/4"	1.3/8"	20	1.1/4"	8.3/4"	8.3/4"
14"	23.3/4"	20.3/4"	1.1/2"	20	1.3/8"	9.1/4"	9.1/4"
16"	27	23.3/4"	1.1/2"/8"	20	1.1/2"	10	10
18"	29.1/4"	25.3/4"	1.3/4"	20	1.1/2"/8"	10.3/4"	10.3/4"
20"	32	28.1/2"	1.3/4"	24	1.1/2"/8"	11.1/4"	11.1/2"
24"	37	33	2"	24	1.7/8"	13	13.1/4"

ASME B16 1/2' Flange Class 900						Length Of Stud Bolts	
NPS	Outside Diameter Of Flange	Diameter Of Bolt Circle	Diameter Of Bolt Holes	Number Of Bolts	Diameter Of Bolts	Raised Face	Ring
1/2"	4.3/4"	3.1/4"	7/8"	4	3/4"	4.1/4"	4.1/4"
3/4"	5.1/8"	3.1/2"	7/8"	4	3/4"	4.1/2"	3.1/2"
1"	5.7/8"	4	1"	4	7/8"	5	5
1.1/4"	6.1/4"	4.3/8"	1"	4	7/8"	5	5
1.1/2"	7	4.7/8"	1.1/8"	4	1"	5.1/2"	5.1/2"
2"	8.1/2"	6.1/2"	1"	8	7/8"	5.3/4"	5.3/4"
2.1/2"	9.1/2"/8"	7.1/2"	1.1/8"	8	1"	6.1/4"	6.1/4"
3"	9.1/2"	7.1/2"	1"	8	7/8"	5.3/4"	5.3/4"
3.1/2"	-	-	-	-	-	-	-
4"	11.1/2"	9.1/4"	1.1/4"	8	1.3/8"	6.3/4"	6.3/4"
5"	13.3/4"	11"	1.3/8"	8	1.1/4"	7.1/2"	7.1/2"
6"	15	12.1/2"	1.1/4"	12	1.1/8"	7.1/2"	7.3/4"
8"	18.1/2"	15.1/2"	1.1/2"	12	1.3/8"	8.3/8"	8.3/4"
10"	21.1/2"	18.1/2"	1.1/2"	16	1.3/8"	9.1/4"	9.1/4"
12"	22	21	1.1/2"	20	1.3/8"	10	10
14"	25.1/4"	22	1.1/2"/8"	20	1.1/2"	10.3/4"	11
16"	27.3/4"	24.1/4"	1.3/4"	20	1.1/2"/8"	11.1/4"	11.1/2"
18"	31	27	2"	20	1.7/8"	12.3/4"	13.1/4"
20"	33.3/4"	29.1/2"	2.1/8"	20	2"	13.3/4"	14.1/4"
24"	41	35.1/2"	2.1/2"/8"	20	2.1/2"	17.1/4"	18

Stud Bolts And Fasteners

ASME B16 1/2' Flange Class 1500						Length Of Stud Bolt	
NPS	Outside Diameter Of Flange	Diameter Of Bolt Circle	Diameter Of Bolt Holes	Number Of Bolts	Diameter Of Bolts	Raised Face 1/16"	Ring Joint
1/2"	4.3/4"	3.1/4"	7/8"	4	3/4"	4.1/4"	4.1/4"
3/4"	5.1/8"	3.1/2"	7/8"	4	3/4"	4.1/2"	4.1/2"
1"	5.7/8"	4	1"	4	7/8"	5	5
1.1/4"	6.1/4"	4.3/8"	1"	4	7/8"	5	5
1.1/2"	7	4.7/8"	1.1/8"	4	1"	5.1/2"	5.1/2"
2"	8.1/2"	6.1/2"	1"	8	7/8"	5.3/4"	5.3/4"
2.1/2"	9.1/2"/8"	7.1/2"	1.1/8"	8	1"	6.1/4"	6.1/4"
3"	10.1/2"	8"	1.1/4"	8	1.3/8"	7"	7"
3.1/2"	-	-	-	-	-	-	-
4"	12.1/4"	9.1/2"	1.3/8"	8	1.1/4"	7.3/4"	7.3/4"
5"	14.3/4"	11.1/2"	1.1/2"/8"	8	1.1/2"	9.3/4"	9.3/4"
6"	15.1/2"	12.1/2"	1.1/2"	12	1.3/8"	10.1/4"	10.1/2"
8"	19"	15.1/2"	1.3/4"	12	1.1/2"/8"	11.1/2"	12.3/4"
10"	23"	19"	2"	12	1.7/8"	13.1/4"	13.1/2"
12"	26.1/2"	22.1/2"	2.1/8"	16	2"	14.3/4"	15.1/4"
14"	29.1/2"	25	2.3/8"	16	2.1/4"	16"	16.3/4"
16"	32.1/2"	27.3/4"	2.1/2"/8"	16	2.1/2"	17.1/2"	18.1/2"
18"	36"	3.1/2"	2.7/8"	16	2.3/4"	19.1/2"	20.3/4"
20"	38.3/4"	32.3/4"	3.1/8"	16	3"	21.1/4"	22.1/4"
24"	46	39"	3.1/2"/8"	16	3.1/2"	24.1/4"	25.1/2"

ASME B16 1/2' Flange Class 2500						Length Of Stud Bolt	
NPS	Outside Diameter Of Flange	Diameter Of Bolt Circle	Diameter Of Bolt Holes	Number Of Bolts	Diameter Of Bolts	Raised Face 1/16"	Ring Joint
1/2"	5.1/4"	3.1/2"	7/8"	4	3/4"	4.3/4"	4.3/4"
3/4"	5.1/2"	3.3/4"	7/8"	4	3/4"	5"	5"
1"	6.1/4"	4.1/4"	1"	4	7/8"	5.1/2"	5.1/2"
1.1/4"	7.1/4"	5.1/8"	1.1/8"	4	1"	6"	6"
1.1/2"	8	5.3/4"	1.1/4"	4	1.1/8"	6.3/4"	6.3/4"
2"	9.1/4"	6.3/4"	1.1/8"	8	1"	7"	7"
2.1/2"	10.1/2"	7.3/4"	1.1/4"	8	1.1/8"	7.3/4"	8"
3"	12	9"	1.3/8"	8	1.1/4"	8.3/4"	9"
4"	14	10.3/4"	1.5/8"	8	1.1/2"	10	10.1/4"
5"	16.1/2"	12.3/4"	1.7/8"	8	1.3/4"	11.3/4"	12.1/4"
6"	19"	14.1/2"	2.1/8"	8	2	13.1/2"	14
8"	21.3/4"	17.1/4"	2.1/8"	12	2"	15	15.1/2"
10"	26.1/2"	21.1/4"	5.5/8"	12	2.1/2"	19.1/4"	20"
12"	30"	24.3/8"	2.7/8"	12	2.3/4"	21.1/4"	22"



All studs are measured using effective thread length which is first thread to first thread. See diagrams above. Dimensions are in inches. Measurements are based on ASME B 16.5 flange specifications.

Stud Bolts And Fasteners

Anchor Bolts

Anchor bolts are designed to attach structural elements to concrete, anchor bolts are typically used to attach steel to concrete. One end is embedded into the concrete, while the opposite end is threaded to attach structural support. There are four main types of anchor bolts: L-shaped, double end rods with plate, headed, and swedge. Each type has their own uses, sizes, and advantages.

L-SHAPED ANCHOR BOLTS

L-Shaped anchor bolts are used in a variety of applications including light poles, sign structures, heavy equipment and tooling. PG Sealing manufactures L-shaped bolts in 3/8”–2.5” diameter and any length required in the following standards: A307, F1554-36, F1554-55, F1554-105, A193 B7, 304 Stainless, 316 stainless.

DOUBLE END RODS WITH PLATE

A double end rod with a plate washer added to one end. The plate can either be welded to the anchor bolt itself, or it can be tack welded to a nut entrenched in concrete. Plate bolts are used primarily in constructing columns for buildings, highway signs, and other applications. PG supplies straight with plate bolts in 3/8”–4” diameter and any length required in the following standards: A307, F1554-36, F1554-55, F1554-105, A193 B7, 304 Stainless, 316 stainless.

HEADED ANCHOR BOLTS

Unlike most anchor bolts, headed anchor bolts have a forged head on their unthreaded end. It is typically a hex, heavy hex, or square head. The head is embedded into the concrete to secure a variety of constructions including structural columns, bridge railing, and light poles. The PG range includes straight with headed anchor bolts in 1/2”–2” diameter and any length required in the following standards: A307, F1554-36, F1554-55, F1554-105, A193 B7, 304 Stainless, 316 stainless.

SWEDGE BOLTS

Swedge bolts consist of round bar steel that is threaded on one end and “swedged” on the other. “Swedged” means one end will have multiple indentions to allow concrete to flow into them.

FASTENERS



<p>Hex A Finished Nut, Often Referred To As A Standard Hex Nut.</p> <p>Heavy Hex A Heavier Pattern Version Of A Standard Hex Nut.</p> <p>Nylon Insert Lock A Nut With A Nylon Insert To Prevent Backing Off. Also Known As A Nyloc.</p> <p>Jam A Hex Nut With A Reduced Height.</p> <p>Nylon Insert Jam Lock A Nylon Nut With A Reduced Height.</p> <p>Wing A Nut With "Wings" For Hand Tightening.</p> <p>Cap A Nut With A Slotted Top Over The End Of The Fastener.</p> <p>Acorn Acorn Nuts Are A High Crown Type Of Cap Nut Used For Appearance.</p> <p>Flange A Nut With A Built-In Washer-Like Flange.</p> <p>Tee A Nut Designed To Be Driven Into Wood To Create A Threaded Hole.</p> <p>Square A Four-Sided Nut.</p> <p>Prevailing Torque Lock A Non-Reusable Lock Nut Used For High Temperature Applications.</p> <p>K-Lock Or Kep A Nut With An Attached Free-Spinning External Tooth Lock Washer.</p> <p>Coupling Coupling Nuts Are Long Nuts Used To Connect Pieces Of Threaded Rod Or Other Male Fasteners.</p> <p>Slotted Slotted Nuts Are Used In Conjunction With A Cotter Pin Or Drilled Shank Fasteners To Prevent Loosening.</p> <p>Castle Castle Nuts Are Used In Conjunction With A Cotter Pin On Drilled Shank Fasteners.</p>	<p>Wood Screws Pointed Tip And Coarse Threading. Used For Wood.</p> <p>Machine Screws Blunt Tip And Fine Threading. Used For Pre-Tapped Holes.</p> <p>Thread Cutting Machine Screws Cuts Its Own Threads In Pre-Tapped Holes.</p> <p>Sheet Metal Screws Drills Its Own Hole And Taps Threads In Sheet Metal.</p> <p>Self Drilling SMS Drills Its Own Hole And Taps Threads In Sheet Metal.</p> <p>Hex Bolts Hexagonal Head For A Wrench.</p> <p>Carriage Bolts Round Head With Square Neck. Used For Wood.</p> <p>Lag Bolts Large, Heavy-Duty Screws With A Hex Head. Used In Wood.</p> <p>Socket Screws Socket Head For An Allen Wrench.</p> <p>Set Screws Threaded Fasteners With No Head. Used To Secure Parts.</p> <p>Eye Bolts A Bolt With A Circular Head. Used For Attaching A Rope Or Cable.</p> <p>Eye Lags A Bolt With A Circular Head And Threaded Shank.</p> <p>J-Bolts J-Shaped Bolts Used For Attaching To Concrete Or Pipes.</p> <p>U-Bolts U-Shaped Bolts For Attaching Pipes Or Tubing To Surfaces.</p> <p>Shoulder Bolts Smooth Round Part Under The Head. Used To Locate Parts.</p> <p>Elevator Bolts Low-Profile Head And Flat Bearing Surface. Used On Conveyors.</p> <p>Sex Bolts Two Parts, A Barrel Nut And A Screw, That Fit Together.</p> <p>Mating Screws A Two-Part Fastener Used For Fastening Two Pieces Together.</p> <p>Hanger Bolts A Fastener With A Wood Screw Thread At One End And Machine Thread At The Other.</p>	<p>Phillips And Frearson The Most Common Cross-Shaped Head.</p> <p>Slotted The Traditional Flat-Blade Head.</p> <p>Combination A Combination Of Phillips And Slotted Heads.</p> <p>Socket, Hex Or Allen A Hexagonal-Shaped Socket For An Allen Wrench.</p> <p>One Way Can Be Turned In One Direction Only.</p> <p>Square A Square-Shaped Head.</p> <p>Torx A Star-Shaped Head.</p> <p>Flat Distributes The Load Of The Fastener.</p> <p>Fender A Washer With A Large Outer Diameter.</p> <p>Finishing A Countersunk Washer Used To Cover Screws.</p> <p>Split Lock A Washer That Acts As A Spring To Prevent Loosening.</p> <p>External Tooth Lock Has Teeth On The Outer Diameter For A Better Grip.</p> <p>Internal Tooth Lock Has Teeth On The Inner Diameter For A Better Grip.</p> <p>Ogee Thick, Large Diameter Cast Iron Washers With A Curved Or Scooped Appearance. Used To Prevent Nuts And Bolts From Backing Out.</p> <p>Internal Tooth Lock A Washer With Internal Teeth. Used To Prevent Nuts And Bolts From Backing Out.</p> <p>Square A Square-Shaped Washer.</p> <p>Doek Doek Washers Have A Larger Outside Diameter And Are Thicker Than Standard.</p>
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Stud Bolts And Fasteners

Anchor Bolts

Rod Diameter	Length	Hook	Thread Length	Rod Diameter	Length	Hook	Thread Length
D	L	C	T	D	L	C	T
3/8"	6"	1"	1/2"	3/4"	12"	3"	4"
3/8"	8"	1"	1/2"	3/4"	14"	3"	4"
3/8"	10"	1"	1/2"	3/4"	16"	3"	4"
3/8"	12"	1"	1/2"	3/4"	18"	3"	4"
1/2"	6"	1"	2"	3/4"	24"	3"	4"
1/2"	8"	1"	2"	3/4"	30"	3"	4"
1/2"	10"	1"	2"	3/4"	36"	3"	4"
1/2"	12"	1"	2"	7/8"	12"	3"	5"
1/2"	14"	1"	2"	7/8"	14"	3"	5"
1/2"	16"	1"	2"	7/8"	18"	3"	5"
1/2"	18"	1"	2"	7/8"	24"	3"	5"
1/2"	20"	1"	2"	1"	14"	3"	6"
1/2"	24"	1"	2"	1"	15"	3"	6"
5/8"	6"	2"	4"	1"	16"	3"	6"
5/8"	8"	2"	4"	1"	18"	3"	6"
5/8"	10"	2"	4"	1"	20"	3"	6"
5/8"	12"	2"	4"	1"	24"	3"	6"
5/8"	14"	2"	4"	1"	30"	3"	6"
5/8"	18"	2"	4"	1"	36"	3"	6"
5/8"	20"	2"	4"	1"	36"	4"	6"
5/8"	24"	2"	4"	1.1/4"	18"	3"	6"
3/4"	6"	3"	4"	1.1/4"	24"	3"	6"
3/4"	10"	3"	4"	-	-	-	-

Stud Bolts And Fasteners

Anchor Bolts

Header plugs (shoulder plugs) for use on air exchangers such as fin fan style. Plugs are available in all materials including ASTM A 105, Monel, Stainless Steel, and Duplex Steel. Washers also supplied in matching materials. Damaged and leaking washers can be replaced with PG Kamwashers.



Fin-Fan Plugs - Target And Max Torque

Plug Size	Threads (UNF Typical)	C.S. Plug With Soft Iron Gasket		1-1/4Cr To 13Cr Plug With Similar Gasket	
		Hook	Thread Length	Rod Diameter	Thread Length
7/8"	14 UNF	125	175	150	200
1"	12 UNF	185	235	200	275
1-1/8"	12 UNF	225	325	250	350
1-1/4"	12 UNF	275	400	325	450
1-3/8"	12 UNF	350	475	400	550
1-1/2"	12 UNF	450	625	500	675
1-5/8"	12 UN	550	750	625	825
1-3/4"	12 UN	650	900	750	1000
1-7/8"	12 UN	800	1075	885	1175
2"	12 UN	875	1175	975	1275
2-1/8"	12 UN	1025	1375	1150	1500
2-1/4"	12 UN	1225	1625	1375	1750

Note: Use quality bolt lube to threads and shoulder contact area. Torque plugs to the target value. To eliminate any leak, increase torque by 25 ft/lb increments until sealed.

Stud Bolts And Fasteners

“Bolt Torque Does Not Equal Clamp Load”

That is because an unlubricated bolt will lose much of its clamping force to friction. Adding a bolt lubrication requirement to your installation procedures will reduce gasket sealing issues and leaks as well as re-torques. Dry bolts and nuts can lose 50% or more effective load to friction. Applying a good quality lubricant to the stud thread and nut face will reduce costs and improve productivity.



- Molybdenum Base: General Purpose, \$K = 0.16\$
- Metal Free: For use with isolation kits, \$K = 0.19\$, Environment Safe
- Nickel and Copper Options

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