



NINGBO FASTENER MANUFACTURE



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Production equipment



Testing equipment





ASTM A193 Alloy Steel Stud Bolt Set

Usage: Oil & Gas engineering, petro-chemical engineering, power station, offshore engineering, nuclear engineering, heavy machinery, skyscraper etc.



Technical Parameter

Specification	Material	Nominal Size (In.)	Mechanical Properties						Finish Treatment
			Minimum Tempering Temperature °F	Elongation in 4D, min, %	Yield Strength, min, 0.2 % offset, ksi	Tensile Strength, min, ksi	Reduction of Area, min, %	Hardness, max	
ASTM A193 Grade B7	AISI 4140, 4142, 4105	1/2 to 2-1/2 2-1/2 to 4	1100	16	105 95	125 115	50	321HB or 35HRC	
ASTM A193 Grade B7M	AISI 4140, 4142, 4105	1/2 to 4	1150	18	80	100		235HB or 99HRB	
ASTM A193 Grade B16	CrMoVa Alloy Steel	1/2 to 2-1/2 2-1/2 to 4	1200	18	105	125	50	321HB or 35HRC	
				17	95	110	45		
Specification	Material	Nominal Size (In.)	Minimum Tempering Temperature °F	Proof Load Stress (ksi)	Hardness Rockwell		Nut Type		
					Min	Max			
ASTM A194 Grade 2H	Medium Carbon Steel, Quenched and Tempered	1/2 to 4	850	175	C24	C35	Heavy hex nut Hex thin nut Hex nut		
ASTM A194 Grade 2HM	Medium Carbon Steel, Quenched and Tempered	1/2 to 4	1150	150	159	235			
ASTM A194 Grade 4	Medium Carbon Alloy Steel, Quenched and Tempered	1/2 to 4	1100	175	C24	C35			
ASTM A194 Grade 7	Medium Carbon Alloy Steel, Quenched and Tempered	1/2 to 4	1100	175	C24	C35			
ASTM A194 Grade 7M	Medium Carbon Alloy Steel, Quenched and Tempered	1/2 to 4	1150	150	159	235			

Black Oxide
Zinc Plated
Nickel Plated
Phosphated
HDG
Dacromet
Cadmium Plated
PTFE (Teflon)



Technical Parameter

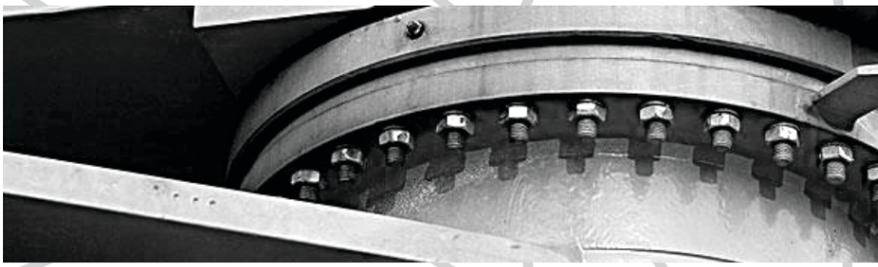
ASTM A193 Stainless Steel Stud Bolt Set

Usage: Oil & Gas engineering, petro-chemical engineering, power station, offshore engineering, nuclear engineering, heavy machinery, skyscraper etc.



Specification	Class	Material	Nominal Size Range (in.)	Mechanical Properties				
				Yield Strength, min, 0.2 % offset, ksi	Tensile Strength, min, ksi	Elongation in 4 D, min %	Reduction of Area, min %	Hardness, max
ASTM A193 Grade B8	"Class 1 Class 1A"	AISI 304	All diameter	30	75	30	50	223HB or 96HRBC
ASTM A193 Grade B8M		AISI 316						
ASTM A193 Grade B8T		AISI 321						
ASTM A193 Grade B8	Class 2	AISI 304 Strain Hardened	3/4 and under	100	125	12	35	321HB or 35HRC
			3/4 to 1 incl	80	115	15		
			1 to 1-1/4 incl	65	105	20		
			1-1/4 to 1-1/2 incl	50	100	28		
ASTM A193 Grade B8M		AISI 321 Strain Hardened	3/4 and under	95	110	15	45	
			3/4 to 1 incl	80	100	20		
			1 to 1-1/4 incl	65	95	25		
			1-1/4 to 1-1/2 incl	50	90	30		
ASTM A193 Grade B8T	AISI 316 Strain Hardened	3/4 and under	100	125	12	35		
		3/4 to 1 incl	80	115	15			
		1 to 1-1/4 incl	65	105	20			
		1-1/4 to 1-1/2 incl	50	100	28	45		
ASTM A193 Grade B8M	Class 2B	AISI 316 Strain Hardened	2 and under	75	95	25	40	
	Class 2C		2 to 2-1/2 incl	65	90	30		
			2-1/2 to 3 incl	55	80			
			2 and under	65	85		60	
	Over 2		60					

Specification	Material	Class	Nominal Size (In.)	Proof Load Stress (ksi)	Hardness Rockwell		All diameter
					Min	Max	
ASTM A194 Grade 8	AISI 304	Class 1	All diameter	80	B60	C32	"Heavy hex nut Hex thin nut Hex nut"
ASTM A194 Grade 8M	AISI 316	"Class 1 Class 2"		110			
ASTM A194 Grade 8T	AISI 321			110			



ASTM A325 Steel Structure Bolt Set

Usage: Steel structure building, bridge, highway, railroad and tower etc.



Technical Parameter

Specification	Fastener Description	Material	Nominal Size Range In.	Mechanical Properties			
				Yield Strength Min (psi)	Tensile Strength Min (psi)	Elongation, in 4D, min, %	Reduction of Area, min, %
ASTM A325 Type 1		Medium Carbon Steel, Quenched and Tempered	1/2 to 1 incl	92,000	120,000	14	35
			Over 1 to 1-1/2	81,000	105,000	14	35†
ASTM A325 Type 2	High Strength Structural Bolt	Low Carbon Martensitic Steel, Quenched and Tempered	1/2 to 1 incl	92,000	120,000	14	35
ASTM A325 Type 3		Atmospheric Corrosion Resisting Steel, Quenched and Tempered	1/2 to 1 incl	92,000	120,000	14	35
			Over 1 to 1-1/2	81,000	105,000	14	35†

Specification	Material	Nominal Size (In.)	Proof Load Stress ksi ^A		Hardness Rockwell		Nut Type
			Non-Zinc-Coated Nuts ^B	Zinc-Coated Nuts ^B	Min	Max	
ASTM A453 Grade DH	Medium Carbon Steel, Quenched and Tempered	1/2 to 4	175	150	C24	C38	Heavy hex nut UNC, 8UN, 6UN and Coarser Pitch Thread

Specification	Material	Nominal Size (In.)	Hardness Rockwell		Hardness Rockwell	
			Non-Zinc-Coated		Zinc-Coated	
			Min	Max	Min	Max
ASTM F436 Washer	Medium Carbon Steel	1/2 to 4	C38	C45	C26	C45



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im International
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Association

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PRODUCTOS CODIGOS IMPA

POPULAR PRODUCTS ▶

IMPA CODE 232151-232152



Cargo Net Slings

IMPA CODE 190541-190560



Boilersuits

IMPA CODE 371586-371588

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IMPA CODE 450566



Anti-Size Compound

IMPA CODE 510165-510169

Angle Radiator Brush



IMPA CODE 232481-232488



Scupper Plug

IMPA CODE 351201-351456



Quick Connect Coupler

IMPA CODE 450501-450521



Molykote Products

IMPA CODE 510701-510749

Condenser Tube Brush



◀ POPULAR PRODUCTS

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IMPA CODE 590342-590347



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IMPA CODE 590461-590464

Pneumatic Jet Chisels



IMPA CODE 590740-590741



Hold Cleaning Gun

IMPA CODE 590301 590303



Pneumatic Angle Grinder

IMPA CODE 590361



Pneumatic Chipping Hammers

IMPA CODE 590603-590607



Pneumatic Driven Winches

IMPA CODE 591002-591014



Portable Electric Drills

IMPA CODE 590326



Pneumatic Die Grinder

IMPA CODE 590382-590383



Pneumatic Scaling Hammers

IMPA CODE 590721-590722



Pneumatic Vacuum Cleaner

IMPA CODE 591021-591034



Electric Angle Grinders

POPULAR PRODUCTS ▶

◀ **POPULAR PRODUCTS**



IMPA CODE 610101–610163
Socket Wrench Set



IMPA CODE 611026–611069
Ratchet Wrench



IMPA CODE 612611–612612
Chipping Hammer



IMPA CODE 650851–650878
Oil Gauging Tape



IMPA CODE 650890–650891
Water finding paste



IMPA CODE 650890–650891
Gasoline & Oil finding paste



IMPA CODE 651371–651376
Sampling Bottles

IMPA CODE 613056
Punching Tool Set

IMPA CODE 613131–613160
Stencil Letter and Figure Set

IMPA CODE 614101
Banding Tool

IMPA CODE 614131–614188
Straub Couplings
Straub Clamps

IMPA CODE 615961
Non-Spark Fibreglass
Square Shovel

IMPA CODE 617501
Air Grease
Lubricator

IMPA CODE 630253–630255
Drill Set

IMPA CODE 632201–632254
Screw
Plate Set

IMPA CODE 633451
Valve Seat
Cutter

IMPA CODE 651384
Salinometer

IMPA CODE 652631–652634
Engine Peak
Indicator

IMPA CODE 653151–653183 Pressure Gauge
Pressure Gauge

PRODUCTOS CODIGOS IMPA

POPULAR PRODUCTS ▶

◀ **POPULAR PRODUCTS**



IMPA CODE 370521-370526
Incandescent Lamp for
Suez Canal Searchlight

IMPA CODE 790407-790434 Tubular Navigation Lamps



IMPA CODE 790181-790199
Clear Lamps

IMPA CODE 792435

Lantern
Battery

IMPA CODE 812251

Devcon Plastic Steel Putty

IMPA CODE 812361-812365

Water Activated Tape

IMPA CODE 812471-812473

Anti-Corrosive Tape

IMPA CODE 812491-812493

Leak None Tape

IMPA CODE 812506-812527

Teflon Rounds

IMPA CODE 813072

O-Ring Kits

IMPA CODE 813080

Copper Ring Kits

IMPA CODE 870101-870107

Anti-Splashing Tape

IMPA CODE 791271-791273
Tubular Shape Halogen Lamps

IMPA CODE 790901-790909 Reflector Lamps

IMPA CODE 790901-790909 Reflector Lamps



IMPA CODE 813070
O-Ring Splicing Kits

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JAPANESE STANDARD FLANGE

FLANGE-JIS B2220



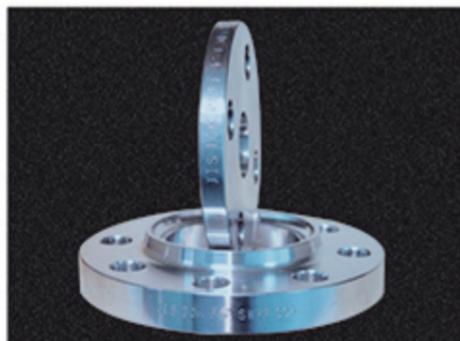
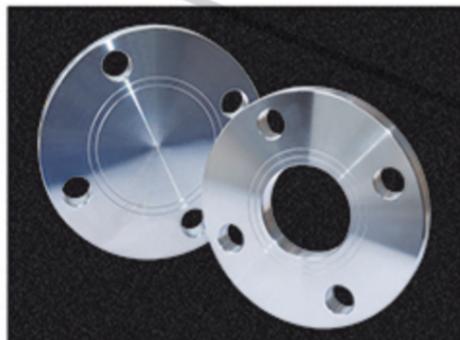
Standard: JIS B2220

Flange type: SOP; SOH; BLIND; WELDIN NECK;
SOCKET WELDING;

Size range: 10A-1500A

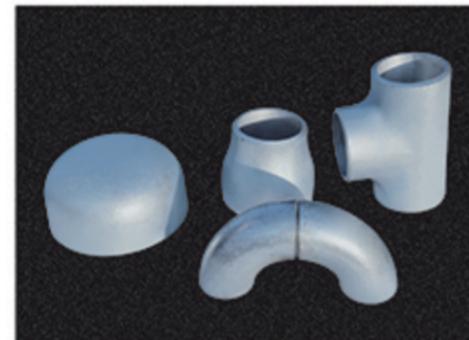
Pressuer: 1K; 2K; 5K; 10K; 16K; 20K; 30K

Material: Carbon steel SS400; SF390A; SF440A
Stainless steel SUS F304/F304L; F316/F316L
Alloy steel SFVA F1; SFVA F1A



JAPANESE STANDARD PIPE FITTING

BUTT-WEDLING PIPE FITTING JIS B2311



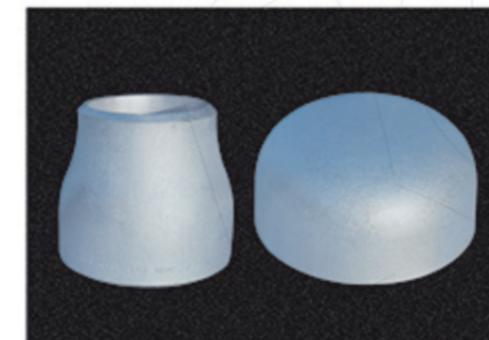
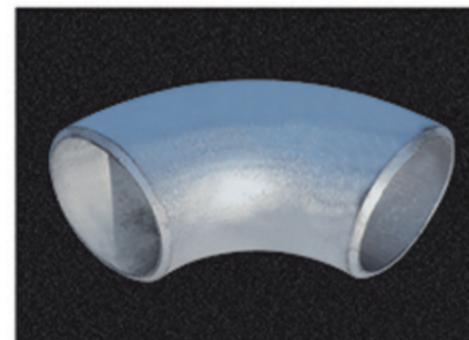
Standard: JIS B 2311

Product: Elbow LR/SR, 45/90/180DEG,
Tee Straight/Reducing
Reducer Concentric/Eccentric
Cap, Cross

Wall thickness: SGP

Size: 1/2"-24"Seamless
4"-72"Seam-welded

Material: Carbon steel JIS G 3452; SS400
Stainless steel SUS304/304L; SUS316/316L;
SUS321



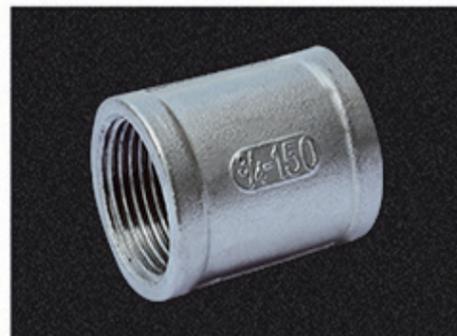
STAINLESS STEEL THREADED CONNECTION FITTINGS



Products: ELBOW 90°/45°; REDUCING ELBOW; SOCKET ELBOW; TEE; REDUCING TEE; CROSS; NIPPLE; HEX NIPPLE; HALF NIPPLE; BARREL NIPPLE; HOUSE NIPPLE; SOCKET BANDED; REDUCING SOCKET BANDED; CONICAL UNION; UNION(MALE/FAMALE); PLUT; HEX PLUG; COUPLING; BUSHING; CAP

Size range: 1/4"-4"

Material: Stainless steel 304; 316



FORGED FITTINGS ASME B16.11 SOCKET WELDING AND THREADED



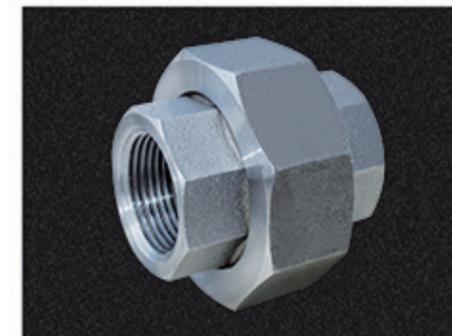
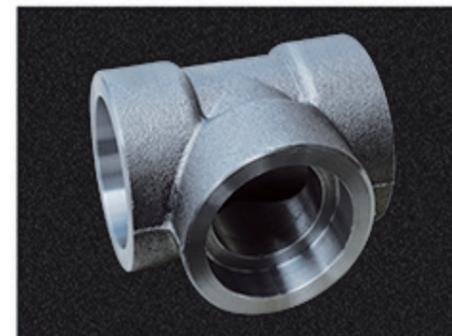
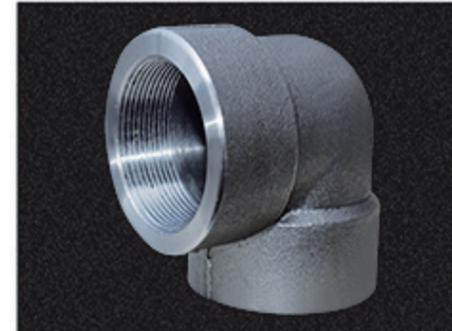
Standard: ASME B16.11

Products: ELBOW; TEE; COUPLING; HALF COUPLING; CAP; PLUG; BUSHING; UNION; OUT-LET; SWAGE NIPPLE; BULL PLUG REDUCER INSERT; HEX NIPPLE; STREE ELBOW; BOSS

Size range: 1/8"-4"

Pressure class: THREADED END 2000LB/3000LB/6000LB
SOCKET-WELD END 3000LB/6000LB/9000LB
BUTT WELD END SCH40/SCH80/SCH160/XXS

Material: Carbon steel ASTM A105; A350 LF2; A106; A234
Stainless steel ASTM A182 F304/304L; F316/316L; F321



PACKAGING



PRODUCT PACKAGING

