



Fasteners



Fasteners
that hold,
trust that *Lasts*

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Our Product

Mainly Applies To

- Industry
- Construction Line
- Valves
- Pumps
- Mechanical Transmission Machines
- Railway
- Vessels
- Yachts
- Steel Structural Bridges
- Kitchen Equipments
- Furniture Fittings
- Bathroom Fittings
- Petrochemical
- Offshore Oil Towers
- Structural Steel Buliding
- Wind Mills
- Power Transmission Towers
- Water & Oil Gas Pipeline
- Water Storage Tanks

& Many More



Introduction

We take great pleasure in presenting ourselves as one of the Leading stockiest cum suppliers & exporters for stainless steel, Carbon steel & alloy steel industrial raw material. Here we present, This catalogue in which we have tried to cover all the required technical Specifications and product application meant for engineering, Petrochemical, power, paper, cement, fertilizers and textile industries.

Stainless Steel Fasteners

304, 304L, 316, 316L, 310, all grade bolt, nut, washer, C.S.K screws, pan head screws, pan philips screws, pan slotted screws machine screw, allen cap, grub screw, nylock nut, dom nut, wing nut, stud, U bolt, hose clamp, clamp, t bolt, i bolt, anchor bolt etc. Grades as per required from commercial to 304, 316L for medical, electrical, engineering and chemical industries.

Stainless Steel Flanges

Threaded flanges, weld neck flanges, blind flanges, slip on flanges, din flanges, Socket welding flanges and all types of flanges..

Butt-weld Pipes Fittings & Valves :

Butt weld elbows, tees, stubends, reducers, caps, nipples, forged socket weld and threaded or screwed elbows, tees, cross, reducers, sockets, plugs, flanges, bushing, ball valve, flanged valve, needle valve, and all types of valves...

Dairy Fittings & Valves

S.S bend, tee, U bend, SMS union, side glass union, pipe clamp, TC clamp, reducer, reducer liner, butterfly valve, nrv valve, frv valve, tank valve, tc ball valve, 2 way & 3 way plug valve, diaphragm valve, conicle filter, sample cock, spary ball, flow glass, gate vlave, globe valve etc.

This catalogue has been designed to help plant engineers, purchase managers and plant designers in gathering all the required information, data and useful facts, which will make buying decision much easier for them.

We Assure You Our Best Services And Quality Materials At All Times.

SS Bolt



SS HEX BOLT



SS ALLEN BOLT



SS ALLEN CSK



SS BUTTON HEAD BOLT



SS DOME BOLT



SS RING BOLT



SS EYE BOLT



SS FLANGE BOLT



SS TEE BOLT



SS J BOLT



SS U BOLT



SS BUCKET BOLT



SS GRUB SCREW



SS BALL PLUNGER



SS ANTI THEFT BOLT



SS WING BOLT



SS HEX NUT



SS NYLOCK NUT



SS LOCK NUT



SS DOME NUT



SS WING NUT



SS FLANGE NUT



SS SQUARE NUT



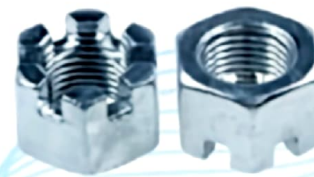
SS RING NUT



SS EYE NUT



SS CAGE NUT



SS CASTLE NUT



SS INSERT NUT



SS SELF CLINCH NUT



SS LONG NUT



SS ANTI THEFT NUT



SS TEE NUT

SS Screw & Washers



SS CHEESE HEAD SCREW



SS PAN PHILLIPS SCREW



SS CSK PHILLIPS SCREW



SS ROUND HEAD SCREW



SS SELF TAPPING SCREW



SS COMBI HEAD SCREW



SS MUSHROOM HEAD SCREW



SS THRUS HEAD SCREW



SS SLOTTED CSK



SS PLAIN WASHER



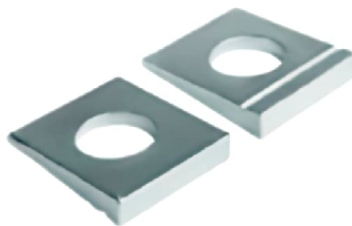
SS SQUARE SPRING WASHER



SS FLAT SPRING WASHER



SS STAR WASHER



SS TAPER WASHER



SS BELLEVILLE WASHER



SS SQUARE WASHER



SS & GI Fasteners



SS THREADED ROD



SS STUD



SS CLINCH STUD



SS POP RIVET



SS BLIND RIVET



SS EXTERNAL CIRCLIP



SS INTERNAL CIRCLIP



SS E CLIP



SS WEDGE TYPE ANCHOR



SS PIN TYPE ANCHOR



SS BULLET FASTENERS



SS SLEEVE ANCHOR



GI WEDGE TYPE ANCHOR



GI PIN TYPE ANCHOR



GI BULLET FASTENERS



GI SLEEVE ANCHOR

SS Fittings



SS GATE VALVE



SS FLANGE TYPE BALL VALVE



SS BUTTERFLY VALVE



SS BALL VALVE



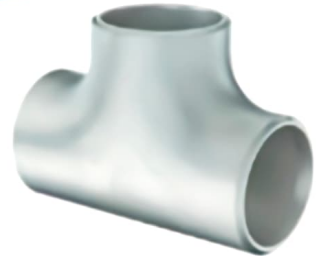
SS 3 WAY PLUG VALVE



SS THREE WAY BALL VALVE



SS BUTT WELD 90° ELBOW



SS BUTT WELD TEE



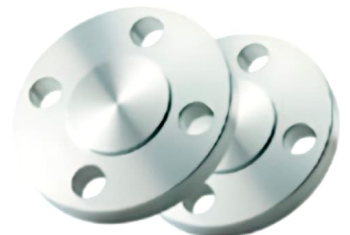
SS LONG STUB END



SS LONG BEND



SS COLLAR FLANGE



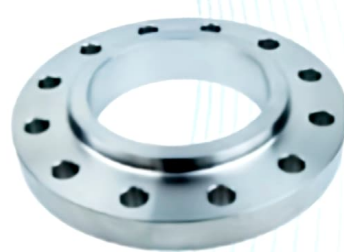
SS BLIND FLANGE



SS WELD-NECK FLANGE



SS FLANGE



SS SLIP ON FLANGE



SS HOSE CLAMP



SS Fittings



SS MALE FEMALE BEND



SS CROSS TEE



SS UNION



SS HEX NIPPLE



SS HEX PLUG



SS COUPLING



SS BARREL NIPPLE



SS REDUCER ELBOW



SS SMS WELD UNION



SS SHORT BEND



SS U BEND



SS DAIRY TEE



SS TC CLAMP



SS DAIRY BEND



SS REDUCER



SS END CAP

Fasteners



Brand Promise

At Vankal Fasteners, we pledge to provide you with a steadfast commitment to reliable connections through our exceptional bolts and nuts. Our products embody unyielding strength, ensuring that your projects are secured with the utmost precision and durability. With a focus on quality and precision, we empower engineering endeavor with fastening solutions that stand the test of time. Trust in us to fortify your future, as we combine innovation, expertise, and a dedication to excellence in every fastener we offer. Your success is our priority, and we're here to deliver the finest in fastening to bolster your projects and aspirations.

Chemical Composition Of Stainless Steel

Grade	Chemical Composition - Per cent									Nearest Equivalent Specification	
	C Max	Mn Max	P Max	S Max	Si Max	Cr	Ni	Mo	Other Element	I.S.	En
201	0.15	5.5/7.5	0.06	0.03	1	16.0/18.0	3.5/5.5	-	-	-	-
202	0.15	7.5/10	0.06	0.03	1	17.0/19.0	4.0/6.0	-	-	-	-
301	0.15	2.0max	0.045	0.040	1.0	16.0/18.0	6.0/8.0	-	-	10Cr17Ni7	-
302	0.15	2.0	0.045	0.030	1.0	17.0/19.0	8.0/10.0	-	E-4-3-4%	07Cr. 18Ni9	En-58A
303	0.15	2.0	0.045	0.15min	1.0	17.0/19.0	8.0/10.0	-	E-4-1% max	15Cr18Ni9	EN-58M
304	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10	En-58E
304L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/12.0	-	-	02Cr18Ni11	-
308	0.08	2.0	0.045	0.030	1.0	18.0/21.0	10.0/12.0	-	-	-	-
309	0.20	2.0 max	0.045	0.030	1.0	22.0/24.0	12.5/15.0	-	-	20Cr24Ni12	-
309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-	-
314	0.25	2.0	0.045	0.030	1.5to3	25.0/26.0	19.0/22.0	-	-	-	-
316	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2	En 58H
316I	0.030	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	03Cr17Ni12Mo2	-
316Ti	0.080	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	Ti5xCmin	-	-
317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-	-
317L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	2.0/4.0	N:0.10/0.22	-	-
321	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	Ti5Cmin	04Cr18Ni10Ti20	En-58C
430	0.12	1.0	0.040	0.030	1.0	14.0/18.0	0.60	-	-	07Cr17	En-60
446	0.20	1.50max	0.040	0.030	1.0	23.0/27.0	0.60max	-	N-25max	-	-
403	0.15	1.00	0.040	0.030	0.50	11.5/13.0	0.60	-	-	-	-
410	0.15	1.00	0.040	0.030	1.0	11.5/13.5	0.60	-	-	12Cr13	En-58A
410	0.08	1.00	0.040	0.030	1.0	11.5/13.5	0.60max	-	-	-	-
414	0.15	1.0max	0.040	0.030	1.0	12.0/14.0	1.25/2.50	-	-	-	-
420	Over0.15	1.0	0.040	0.030	1.00	12.0/14.0	0.60	-	-	22Cr13	En-56C&D
431	0.20	1.0max	0.040	0.030	1.0	15.0/17.0	1.25/2.50	0.75max	-	15Cr16Ni12	En-57
440A	0.60/0.70	1.0	0.040	0.030	1.0	16/18	-	-	-	-	-
440B	0.75	1.0	0.040	0.030	1.0	16.0/18.0	-	0.75max	-	-	-
-	0.95	-	-	-	-	-	-	-	-	-	-
440C	0.95	1.0	0.040	0.030	1.0	16/18	0.75max	-	-	-	-
-	1.2	-	-	-	-	-	-	-	-	-	-
446	0.20	1.50	0.040	0.030	1.0	23.0/21.0	-	-	-	No 25Max	-

Physical Properties

Grade	Tensile Strength KSI (Mpa)	Yield Strength KSI (Mpa)	Elongation in 2 inches % min	Max. Hardness		Thermal Conductivity Cal/sec.cm.c At Temp Range 20-500°C	Co-efficient of expansion X 10-6cm/ cm.c st Temp. Range 20-870°C
				Brinell (HBW)	Rockwell (HRB)		
TP 301	(75)515	(30)205	35	192	90	0.051	19.8
TP 304	(75)515	(30)205	35	192	90	0.051	19.9
TP 304L	(70)455	(25)170	35	192	90	0.051	19.8
TP 304N	(80)505	(35)240	35	192	90	0.051	19.9
TP 304LN	(75)515	(30)205	35	192	90	0.051	19.8
TP 309	(75)515	(30)205	35	192	90	0.45	19.9
TP 310	(75)515	(30)205	35	192	90	0.044	18.8
TP 316	(75)515	(30)205	35	192	90	0.042	19.3
TP 316L	(70)485	(25)170	35	192	90	0.042	19.3
TP 316Ti	(75)515	(30)205	35	192	90	0.042	19.3
TP 316N	(80)505	(35)240	35	192	90	0.038	19.3
TP 316LN	(75)515	(30)205	35	192	90	0.45	19.3
TP 317 L	(75)515	(30)205	35	192	90	0.49	17.5
TP 321	(75)515	(30)205	35	192	90	0.051	19.8
TP 347	(75)515	(30)205	35	192	90	0.53	19.9
TP 405	(60)415	(30)205	20	207	95	0.064	10.8
TP 410	(60)415	(30)205	20	207	95	0.059	9.9
TP 429	(60)415	(35)240	20	190	90	0.061	10.3
TP 430	(60)415	(35)240	20	190	90	0.062	10.5
TP 430 Ti	(60)415	(35)240	20	190	90	0.62	10.5
TP 439	(60)415	(30)205	20	190	90	0.057	11.5
UNS S31803	(90)620	(65)450	25	290	30 hrc	0.041	16.9
NUS S32205	(95)655	(70)485	25	290	30 hrc	0.041	16.9
UNS S32750	(116)800	(80)550	15	300	32 hrc	0.04	14.2
UNS S32760	(109)750	(80)550	25	300	-	0.035	13.8



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