



PETRO TAJHIZ CASPIAN
Oil , Gas & Petrochemical Equipment Supplier

PIPING MATERIAL

BEST QUALITY , BEST BRANDS



- + INDUSTRIAL VALVE
- + PIPE
- + FITTING
- + FLANGE
- + BOLT & NUTS
- + INSTRUMENT

Your Trust Is Our Credit



Petro Tajhiz Caspian

(private joint stock)

about us:

PTC is an industrial supplier of pipe-valve-flange-fitting-gasket-instrumentation and all types of piping accessories .We have partnered with some of the top manufactures in our industry as our suppliers .We carry a full range of sizes and material in our stock to help our customers fulfill their piping requirements in a timely and cost effective manner. We strive to become a valuable and reliable supplier to our customer .

We would look forward to the opportunity to work with you .





Petro Tajhiz Caspian Co (private joint stock)

Stockist & Supplier Of Piping Material

Industrial Valve

Pipe

Fitting

Flange

Bolt & Nut



Industrial Valve

☑ Type

- ✓ GATE VALVE
- ✓ GLOBE VALVE
- ✓ BALL VALVE
- ✓ BUTTERFLY VALVE
- ✓ KNIFE GATE VALVE
- ✓ CHECK VALVE
- ✓ STRAINER
- ✓ PLUG VALVE
- ✓ PINCH VALVE
- ✓ NEEDLE VALVE
- ✓ DIAPHRAGM VALVE
- ✓ PRESSURE REDUCE VALVE

☑ Rating

- ✓ 150 lb
- ✓ 300 lb
- ✓ 600 lb
- ✓ 800 lb
- ✓ 900 lb
- ✓ 1500 lb
- ✓ 2500 lb

☑ Connection

- ✓ SOCKET WELD
- ✓ THREADED 'NPT'
- ✓ FLANGED
- ✓ BUTT WELDING





VALVE BODY MATERIAL

DESCRIPTION	UNS GRADE	FORGING	CASTING	BARSTOCK
Carbon Steel	K30504	A105	A216 WCB	A105
Low Temp Carbon	K03011	A350 LF2	A352 LCB	A350 LF2
High Yield Steel	K03014	A694 F60	-	A694 F60
3 1/2 Nickel Steel	K32025	A350 LF3	A352 LC3	A350 LF3
5 Chrome, 1/2 Moly	K41545	A182 F5	A217 C5	A182 F5
1 1/4 Chrome, 1/2 Moly	K11597	A182 F11	A217 WC6	A182 F11
2 1/4 Chrome, 1 Moly	K21590	A182 F22	A217 WC9	A182 F22
9 Chrome, 1 Moly	K90941	A182 F9	A217 WC6	A182 F9
13 Chrome	S41000	A182 F6A	A351 CA15	A276 or A479 410
304	S30400	A182 F304	A351 CF8	A276 or A479 304
304L	S30403	A182 F304L	A351 CF3	A276 or A479 304L
316	S31600	A182 F316	A351 CF8M	A276 or A479 316
316L	S31603	A182 F316L	A351 CF3M	A276 or A479 316L
317L	S31703	A182 F317L	A351 CG8M	A276 or A479 317L
321	S32100	A182 F321	-	A276 or A479 321
347	S34700	A182 F347	A351 CF8C	A276 or A479 347
17-4PH	S17400	A564 630	-	-
Alloy 400	N04400	B564 N04400	A494 M35-1	B164 N04400
Alloy K500	N05500	-	-	B865 N05500
Alloy 800	N08800	B564 N08810	-	B408 N08800
Alloy 825	N08825	-	-	B425 N08825
Alloy 600	N06600	B564 N06600	A494 CY40	B166 N06600
Alloy 625	N06625	B564 N06625	A494 CW 6MC	B446 N06625
Alloy B2	N10665	B564 N10665	A494 N 12MV	B335 N10665
Alloy C	N10002	-	A494 CW6M	-
Alloy C22	N06022	B574 N06022	A494 CX2MW	B574 N06022
Alloy C276	N10276	B564 N10276	A494 CW12 MW	B574 N10276
22% Duplex	S31803	A182 F51	A890 Gr 4A	A276 or A479 S31803
25% Duplex	S32750 or 32760	A182 F53	A890 Gr 6A	A276 or A479 S32750 or 60
254SMO	S31254	A182 F44	A351 CK3MCuN	A182 F44
904L	N08904	B625 N08904	-	B649 N08904
Titanium	R50400	B381 F2	B367 C2	B348 Gr 2



FITTING

Name

- ELBOW
- TEE
- CAP
- CROSS
- REDUCER
- SOCKOLET
- WELDOLET
- THREADOLET
- NIPPLE
- COUPLING
- UNION
- AND

FORGE

- 2000 lb
- 3000 lb
- 6000 lb
- 9000 lb
- 12000 lb

Connection

- THREADED ' NPT'
- SOCKET WELD
- BUTT WELD

CASTING

- SCH 5
- SCH 10
- SCH 20
- SCH 30
- SCH STD
- SCH 40
- SCH XS
- SCH 80
- SCH 160
- SCH XXS



Wrought Steel Butt Weld Pipe Fittings

• Carbon & Alloy Steel

90° Elbow (Long)	180° Elbow (Long)	Reducer (Concentric)	Reducer (Concentric)
90° Elbow (Short)	180° Elbow (Short)	Reducer (Eccentric)	Reducer (Eccentric)
45° Elbow (Long)	Tee (Straight)	Tee (Reducing)	Cap

• Stainless Steel

90° Elbow (Long)	Reducer (Concentric)	Tee (Straight)
90° Elbow (Short)	Reducer (Eccentric)	Tee (Reducing)
45° Elbow (Long)	Lap Joint Stub End	Cap

Forged Steel Fittings

• Socket Welding Fittings

90° Elbow	45° Elbow	Tee	Cross
Coupling	Reducer	Cap	Union

• Threaded Fittings

90° Elbow	45° Elbow	Tee	Cross
Coupling	Half Coupling	Cap	Union
Hex. Head Plug	S.O. Head Plug	Round Head Plug	Hex. Head Bushing
Boss	Insert	Nipple	Swage Nipple

• Outlets

Socket-Outlet	Welding-Outlet	Thread-Outlet	Nipple-Outlet
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FLANGE

☑ Type

- ✓ WELDING NECK
- ✓ SOCKET WELD
- ✓ BLIND
- ✓ SLIP ON
- ✓ LAP JOINT
- ✓ ORIFICE
- ✓ SPECTACLE BLIND
- ✓ SPACER & SPADE
- ✓ THREADED
- ✓ REDUCING
- ✓ SHORT STUB END
- ✓ LONG WELDING NECK

☑ Rating

- ✓ 150 lb
- ✓ 300 lb
- ✓ 600 lb
- ✓ 800 lb
- ✓ 900 lb
- ✓ 1500 lb
- ✓ 2500 lb

☑ Flange Faces

- ✓ RACE FACE
- ✓ FLAT FACE
- ✓ RING TYPE JOINT
- ✓ TONGUE & GROOVE
- ✓ MALE & FEMALE



FLANGE BOLTING CHART - ASME B16.5

	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24
Class 150	Number of Bolts	4	4	4	4	4	4	4	8	8	8	8	8	8	12	12	16	16	20	20
	Diameter of Bolt	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4	7/8	7/8	7/8	1	1 1/8	1 1/8	1 1/4
	Stud Bolt Length	2 1/4	2 1/2	2 3/4	2 3/4	3 1/4	3 1/4	3 1/2	3 1/2	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5 1/4	5 1/4	5 3/4	6 1/4	6 3/4
	Machine Bolt Length	2	2 1/4	2 1/4	2 1/2	2 3/4	3	3	3	3	3 1/4	3 1/4	3 1/4	3 1/2	4	4 1/2	4 1/2	5	5 1/2	6
Class 300	Number of Bolts	4	4	4	4	8	8	8	8	8	8	12	12	12	16	20	20	24	24	24
	Diameter of Bolt	1/2	5/8	5/8	5/8	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	7/8	1 1/8	1 1/8	1 1/4	1 1/4	1 1/4	1 1/2
	Stud Bolt Length	2 1/2	3	3 1/4	3 1/2	3 1/2	4	4 1/4	4 1/4	4 1/2	4 3/4	4 3/4	4 3/4	5 1/2	6 1/4	6 3/4	7	7 1/2	7 3/4	8
	Machine Bolt Length	2 1/4	2 1/2	2 3/4	3	3 1/4	3	3 1/4	3 1/2	3 3/4	4 1/4	4 1/4	4 1/4	4 3/4	5 1/2	5 3/4	6 1/4	6 1/2	6 3/4	7 1/4
Class 400	Number of Bolts	4	4	4	4	8	8	8	8	8	8	12	12	12	16	20	20	24	24	24
	Diameter of Bolt	1/2	5/8	5/8	5/8	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8	1 1/8	1 1/8	1 1/4	1 3/8	1 3/8	1 1/2	1 3/4
	Stud Bolt Length	1/4	3	3 1/2	3 3/4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 1/2	5 3/4	6	6 3/4	7 1/2	8	8 1/4	8 3/4	9	9 1/2
	Number of Bolts	4	4	4	4	8	8	8	8	8	8	12	12	12	16	20	20	20	24	24
Class 600	Diameter of Bolt	1/2	5/8	5/8	3/4	3/4	3/4	3/4	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 5/8	1 7/8
	Stud Bolt Length	1/4	3	3 1/2	3 3/4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 3/4	6	6 3/4	7 1/2	8 1/2	8 3/4	9 1/4	10	10 3/4	11 1/4
	Number of Bolts	4	4	4	4	8	8	8	8	8	8	12	12	12	16	20	20	20	20	20
	Diameter of Bolt	1/2	5/8	5/8	3/4	3/4	3/4	3/4	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 5/8	1 7/8
Class 900	Stud Bolt Length	1/4	3	3 1/2	3 3/4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 3/4	6 1/2	6 3/4	7 1/2	8 1/2	8 3/4	9 1/4	10	10 3/4	11 1/4
	Number of Bolts	4	4	4	4	8	8	8	8	8	8	12	12	12	16	20	20	20	20	20
	Diameter of Bolts	1/2	5/8	5/8	3/4	3/4	3/4	3/4	7/8	1 1/8	1 1/4	1 1/8	1 1/8	1 3/8	1 3/8	1 1/2	1 5/8	1 7/8	2	2 1/2
	Raised Face 0.25 in.	1/4	3	3 1/2	3 3/4	4 1/4	4 1/4	4 3/4	5.75	6.75	7.50	7.50	7.50	8.75	9.25	10.00	10.75	11.25	12.75	13.75
Class 1500	Number of Bolts	4	4	4	4	8	8	8	8	8	8	12	12	12	16	16	16	16	16	16
	Diameter of Bolts	3/4	3/4	7/8	7/8	1	7/8	1	1 1/8	1 1/4	1 1/2	1 3/8	1 3/8	1 5/8	1 7/8	2	2 1/4	2 1/2	2 3/4	3
	Raised Face 0.25 in.	1/4	4.25	5.00	5.00	5.50	5.75	6.25	7.00	7.75	9.75	10.25	11.50	11.50	13.25	14.75	16.00	17.50	19.50	21.25
	Number of Bolts	4	4	4	4	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12
Class 2500	Diameter of Bolts	3/4	3/4	7/8	1	1 1/8	1 1/8	1 1/4	1 1/4	1 1/2	1 3/4	2	2	2 1/2	2 3/4	3	3	3	3	3
	Raised Face 0.25 in.	1/4	4.75	5.00	5.50	6.00	6.75	7.00	7.75	8.75	10.00	11.75	13.50	15.00	19.25	21.25	21.25	21.25	21.25	21.25



PIPE

☑ Type

- ✓ SEAMLESS
- ✓ ERW
- ✓ EFW
- ✓ SAW

☑ Schedules

- ✓ SCH 10
- ✓ SCH 20
- ✓ SCH 30
- ✓ SCH STD
- ✓ SCH 40
- ✓ SCH XS
- ✓ SCH 80
- ✓ SCH 160
- ✓ SCH XXS

☑ Material

- ✓ ASTM A106 GR.B
- ✓ ASTM A53 GR.B
- ✓ PSL 1
- ✓ PSL 2
- ✓ ASTM A403 TP 304
- ✓ ASTM A403 TP 316
- ✓ ASTM A403 TP 321
- ✓ API 5L GR.B
- ✓ API 5L GR.X52
- ✓ AND



NOMINAL PIPE SIZE INCHES	OD MM	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	5S	10S	40S	80S			
1/8	10.30	1.24 0.28		1.45 0.32	1.73 0.37	1.73 0.37		2.41 0.47	2.41 0.47										1.24 0.28	1.73 0.36	2.41 0.48
1/4	13.70	1.65 0.49		1.85 0.54	2.24 0.63	2.24 0.63		3.02 0.80	3.02 0.80										1.65 0.51	2.24 0.64	3.02 0.82
3/8	17.10	1.65 0.63		1.85 0.70	2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10										1.65 0.64	2.31 0.86	3.20 1.12
1/2	21.30	2.11 1.00		2.41 1.12	2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62				4.78 1.95	7.47 2.55	1.65 0.82	2.11 1.01	2.77 1.30	3.73 1.65			
3/4	26.70	2.11 1.28		2.41 1.44	2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20				5.56 2.90	7.82 3.64	1.65 1.04	2.11 1.31	2.87 1.71	3.91 2.24			
1	33.40	2.77 2.09		2.90 2.18	3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24				6.35 4.24	9.09 5.45	1.65 1.33	2.77 2.13	3.38 2.55	4.55 3.29			
1 1/4	42.20	2.77 2.70		2.97 2.87	3.56 3.39	3.56 3.39		4.85 4.47	4.85 4.47				6.35 5.61	9.70 7.77	1.65 1.68	2.77 2.76	3.56 3.46	4.85 4.56			
1 1/2	48.30	2.77 3.11		3.18 3.53	3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41				7.14 7.25	10.15 9.56	1.65 1.95	2.77 3.17	3.68 4.13	5.08 5.51			
2	60.30	2.77 3.93		3.18 4.48	3.91 5.44	3.91 5.44		5.54 7.48	5.54 7.48				8.74 11.11	11.07 13.44	1.65 2.44	2.77 4.01	3.91 5.54	5.54 7.63			
2 1/2	73.00	3.05 5.26		4.78 8.04	5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41				9.53 14.92	14.02 20.39	2.11 3.77	3.05 5.36	5.16 8.81	7.01 11.64			
3	88.90	3.05 6.45		4.78 9.92	5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27				11.13 21.35	15.24 27.68	2.11 4.60	3.05 6.59	5.49 11.52	7.62 15.59			
3 1/2	101.60	3.05 7.40		4.78 11.41	5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63						2.11 5.29	3.05 7.55	5.74 13.84	8.08 19.01			
4	114.30	3.05 8.36		4.78 12.91	6.02 16.07	6.02 16.07		8.56 22.32	8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03	2.11 5.96	3.05 8.52	6.02 16.40	8.56 22.77			
5	141.30	3.40 11.57			6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97		12.70 40.28		15.88 49.11	19.05 57.43	2.77 9.67	3.40 11.82	6.55 22.20	9.53 31.59			
6	168.30	3.40 13.84			7.11 28.26	7.11 28.26		10.97 42.56	10.97 42.56		14.27 54.20		18.26 67.56	21.95 79.22	2.77 11.55	3.40 14.13	7.11 28.83	10.97 43.42			
8	219.10	3.76 19.96	6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.31 53.08	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92	2.77 15.09	3.76 20.37	8.18 43.39	10.31 65.59			
10	273.10	4.19 27.78	6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.55	15.09 81.55	15.09 96.01	18.26 114.75	21.44 133.06	25.40 155.15	28.58 172.33	25.40 186.97	3.96 31.89	4.57 36.73	9.52 75.52	12.70 99.43			
12	323.90	4.57 36.00	6.35 49.73	8.38 65.20	9.53 73.88	10.31 79.73	14.27 108.96	12.70 97.46	17.48 132.08	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	25.40 186.97	3.96 31.89	4.57 36.73	9.52 75.52	12.70 99.43			
14	355.60	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.38	11.13 94.55	15.09 126.71	12.70 107.39	19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70		3.96 35.06	4.78 42.14					
16	406.40	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	12.70 123.30	21.44 203.53	26.19 245.56	30.96 286.64	36.53 333.19	40.49 365.35		4.19 42.41	4.78 48.26					
18	457	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.05 205.74	12.70 139.15	23.88 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37		4.19 47.77	7.78 60.46					
20	508	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.01 564.81		4.78 60.46	5.54 70.00					
22	559	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13		22.23 294.27	12.70 171.09	28.58 373.83	34.93 451.42	41.28 527.02	47.63 600.63	53.98 672.26		4.78 66.57	5.54 77.06					
24	610	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.61 355.26	12.70 187.06	30.96 442.08	38.89 547.71	46.02 640.03	52.37 720.15	59.54 808.22		5.54 84.16	6.35 96.37					
26	660	7.92 127.36	12.70 202.72		9.53 152.87			12.70 202.72													
28	711	7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85			12.70 218.69							6.35 120.72	7.92 150.36					
30	762	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84			12.70 234.67													
32	813	7.92 157.24	12.70 250.64	15.88 312.15	9.53 188.82	17.48 342.91		12.70 250.64													
34	864	7.92 167.20	12.70 266.61	15.88 332.12	9.53 200.31	17.48 364.90		12.70 266.61													
36	914	7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56	19.05 420.42		12.70 282.27													
38	965				9.53 224.54			12.70 298.24													
40	1016				9.53 236.53			12.70 314.22													
42	1067				9.53 248.52			12.70 330.19													
44	1118				9.53 260.50			12.70 346.16													
46	1168				9.53 272.25			12.70 351.82													
48	1219				9.53 284.24			12.70 377.79													





Bolt & Nuts

Type

- ✓ STUD BOLT
- ✓ MACHINE BOLT
- ✓ ANCHOR BOLT
- ✓ FLANGE BOLT
- ✓ U-BOLT
- ✓ AND ...

Material

- ✓ ASTM A193 GR.B5
- ✓ ASTM A193 GR.B6
- ✓ ASTM A193 GR.B7
- ✓ ASTM A193 GR.B8
- ✓ ASTM A194 GR.2H
- ✓ AND ...





INSTRUMENTATION

NAME

- ✓ MANOMETER
- ✓ PRESSURE GAUGE
- ✓ MANOSTAT
- ✓ TRANSMITER
- ✓ FLOW METER
- ✓ THERMO METER

- ✓ HUMIDITY METER
- ✓ TRAP







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