



15 *years
towards
excellence*

- ◆ Mechanical
- ◆ Instrumentation
- ◆ Electrical

SSQ



INTRODUCTION

SSQ is fully Saudi-owned company that has been supplying high quality industrial products from leading manufactures across the globe.

we are working tirelessly to oil & gas and petrochemical company success in highly competitive regional industrial markets.

We are approved by the largest organization in the kingdom like SAUDI ARAMCO, SABIC, MAADEN, SEC, RC, SATORP, SWCC, YASREF, MINISTRY OF WATER AND ELECTRICITY, PETRORABIGH, SADARA.

We have a worldwide sourcing database and can provide and competitive proposals for a normal maintenance and complete project requirements.

Our only goal is to ensure your satisfaction. We are one Stop-Shop for all your requirements of Oil and Gas, Industrial, Construction Equipments and Building Materials. We take pride in the quality and best Services to satisfy our clients. Our Objective is not only to provide quality products but also timely deliveries to match the customer requirements.

The company's product range is diverse and geared towards local and regional demand, and it imports materials from all over the world. Quality and customer services are top priorities this coupled with ready-stock as well as after-sales support has made SSQ a preferred supplier throughout the region.

VENDOR



أرامكو السعودية
Saudi Aramco

10052687



معادن
Saudi Arabian Mining Company شركة التعدين العربية السعودية

128872



الشركة السعودية للكهرباء
Saudi Electricity Company

2005980



ساتورب
satorp

12076



507680



1000002243



000880

المؤسسة العامة للحلية المياه المالحة
Saline Water Conversion Corporation



4453



100801

MECHANICAL

VALVES



MATERIAL	SIZE	END CONNECTION	PRESSURE	GRADES	FORM
STAINLESS STEEL	1/2"	THREADED	CLASS 150	SS F316	GATE
CARBON STEEL		SOCKET WELD	CLASS 300	SS F304	GLOBE
ALLOY STEEL		FLANGED	CLASS 600	ASTM A105	CHECK
BRASS	TO		CLASS 800	A216 WCB	BALL
BRONZE			CLASS 1500	ASTM A126	BUTTERFLY
CAST STEEL			CLASS 2500	ASTM B62	PLUG
DUCTILE IRON				ASTM A395	
CAST IRON	36"			ASTM B148	
				LF2	
				F55	
				F11	
				F22	

PIPES & TUBES



MATERIAL	SIZE	END CONNECTION	THICKNESS	GRADES	FORM
STAINLESS STEEL	1/4"	THREADED	SCH 40	SS F316	SEAMLESS
CARBON STEEL		PLAIN	SCH 80	SS F304	WELDED
COPPER NICKEL		BEVELLED	SCH STD	ASTM A106	
GRP			SCH XS	ASTM A53	
RTR	TO		SCH 160	API 5L GR.B	
PVC			0.035"	API 5L X42	
UPVC			0.049"	ASTM A333	
MONEL			0.065"	ASTM A335 P11	
ALLOY STEEL	48"			UNS S32205	
				90/10, C70600	
				MONEL 400	

FORGED FITTINGS



MATERIAL	SIZE	END CONNECTION	PRESSURE	GRADES	FORM
STAINLESS STEEL	1/4"	THREADED	3000#	SS F316, A182	ELBOW
CARBON STEEL		SOCKET WELD	6000#	SS F304, A182	TEE
COPPER NICKEL			SCH 40	ASTM A105	UNION
PVC	TO		SCH 80	90/10, C70600	COUPLING
UPVC			SCH STD	MONEL 400	CAP
MONEL				F55	SWAGE NIPPLE
ALLOY STEEL	4"			F51	BUSH
				A350 LF2	PLUG
				A182, F11	WELDOLET
					THREADOLET

BUTTWELD FITTINGS



MATERIAL	SIZE	TYPE	THICKNESS	GRADES	FORM
STAINLESS STEEL	2"	SEAMLESS	SCH 40	SS 316, SA 403	ELBOW
CARBON STEEL	TO	WELDED	SCH 80	SS F304, SA 403	STUBEND
ALLOY STEEL	48"		SCH STD	ASTM A234 WPB	REDUCER
			SCH XS	ASTM A234 WPHY	CAP
				SA 815, UNS S32205	TEE
					PIPE NIPPLE
					WELDOLET
					THREADOLET

FLANGES



MATERIAL	SIZE	PRESSURE	THICKNESS	GRADES	FORM
STAINLESS STEEL	1/2"	CLASS 150	SCH 40	SS 316, A182	SLIPON
CARBON STEEL	TO	CLASS 300	SCH 80	SS F304, A182	WELDNECK
ALLOY STEEL		CLASS 600	SCH STD	ASTM A105	SOCKETWELD
COPPER NICKEL	48"		SCH XS	ASTM A350 LF2	BLIND
				A182, F11	THREADED
				90/10, C70600	SPECTACLE

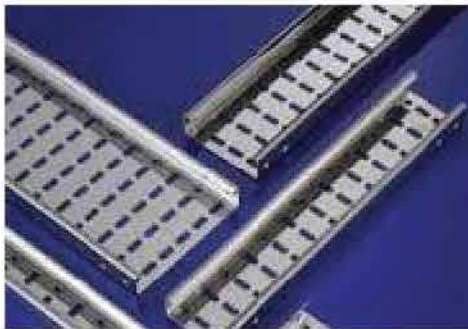
INSTRUMENTATION TUBE FITTINGS



MATERIAL	SIZE	END CONNECTION	GRADES	FORM
STAINLESS STEEL	1/4"	TUBE OD	SS 316	MALE CONNECTOR
BRASS	TO	PIPE THREAD	ASTM B124	UNION
	2"			ELBOW
				TEE
				FERRULE
				NUT
				PLUG
				ADAPTOR

ELECTRICAL PRODUCTS

MATERIALS		
INSTRUMENTATION CABLES	CABLE TRYS	CONDUIT OUTLET BOXES
TERMINATION KITS	PULL BOXES	CABLE GLANDS
CONDUIT FITTINGS	CABLE LUGS	CABLE LADDER
JUNCTION BOXES	CABLE TIES	CABLE TRUNKING
SPLICE PLATES	EARTHING	GROUNDING BUSH
SWITCHES	SOCKETS	LAMPS



SAFETY ITEMS / WELDING

SAFETY SHOES, HELMET, SAFETY GLASS, WELDING GLOVES, EAR PLUGS, COVERALL, FULL BODY HARNESS & FACE SHIELD, FIRE EXTINGUISHER, SMOKE /GAS DETECTOR, SCAFFOLDING TAG, EYE WASH STATION, CABLE LUGS, CABLE CONNECTORS, FIRE BLANKETS, MIG & TIG TORCH, ELCTRODE HOLDERS, WELDING HOSES, EARTH & GROUND CLAMPS & ELECTRODES.



CONSUMABLE ITEMS

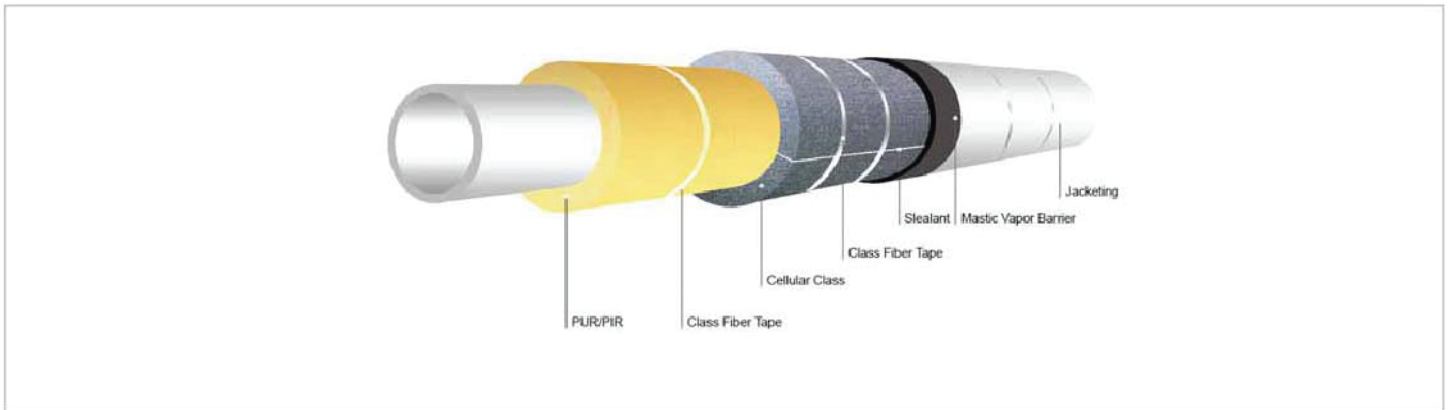
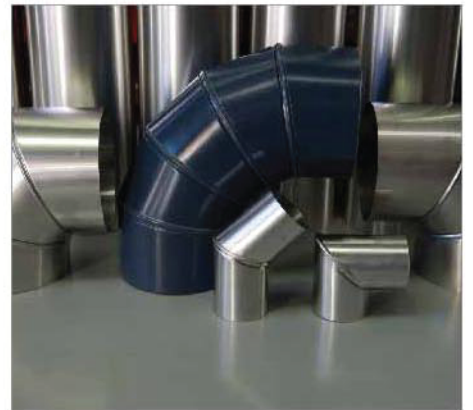
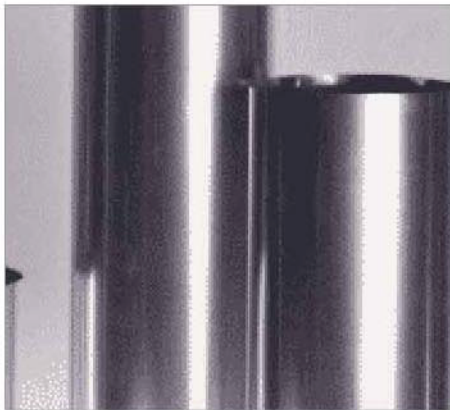
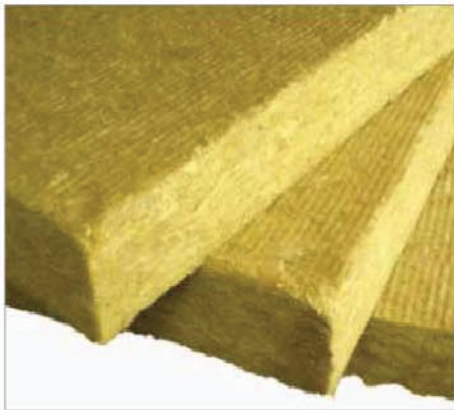
CUTTING & GRINDING DISC, CUTTING & FLAP WHEEL, WIRE BRUSH, CHAIN BLOCK, SLING BELT, SHACKLE, POWER TOOLS & HAND TOOLS & RATCHET.



INSULATION

SSQ is the leading industrial insulation company in the Kingdom for the Oil & Petrochemical sector, supply insulation materials; depending on the type of project we supply Calcium Silicate, Perlite, PIR, Mineral Wool & Cellular Glass.

SSQ supply various types of Insulation materials, Aluminum & stainless steel Jacketing, Insulation accessories, mastics & joint sealants. We are able serve the entire GCC market for our customer's urgent requirements.



STRUCTURAL



HYUNDAI STEEL
PLATES, SHEETS,
FLT BAR & BEAMS



POSCO
PLATES, SHEETS, FLT BAR.



SABIC
PLATES, SHEETS, FLT BAR

GASKET & STUD BOLTS



AL IMAN.-GASKETS



LONE STAR.-
STUD BOLTS & NUTS.



DELMON.-GASKETS



TRIPPLE FAST.-
STUD BOLTS & NUTS

INSTRUMENTATION BRAND



SWAGelok
COMPRESION FITTINGS,
INSTRUMENTATION,
VALVES HOSES, SEALANT TUBES



thermo-electra
measurement and control technics

THERMO ELECTRA
THEMOWELL CABLES TRANSMITTER
RTD & THERMOCOUPLE



PARKER INSTRUMENTATION
COMPRESION FITTINGS,
PVC COPPER TUBES & VALVES



FLUKE
DIGITAL MULTIMETERS, CLAMP
MEETER, POWER QUALITY
ANALYZER, LOOP CALIBRATOR



SADVIK
INSTRUMENTATION STAINLESS
STEEL MONEL & DUPLEX TUBES



OLIVER VALVES
MANIFOLD & SOLENOID VALVES.



TECHNOMATIC
SEAL POTS, ORIFICE FLANGES
INSTRUMENTATION VALVES,
SOLENOID VALVES, FITTERS PILOT VALVES



FMC CORPORATION
MANIFOLD & SOLENOID VALVES



RIKEN KEIKI CO., LTD.
ANALYZER, DETECTOR, OXYGEN
MONITOR GAS CALIBRATION KIT



BAUMER
PRESSURE GUAGES

MECHANICAL BRANDS

FORGED VALVES



BONNEY FORGE
½" to 4" CS & SS
FORGED VALVES



OMB
½" to 4" CS & SS
FORGED VALVES



MARIANI
½" to 4"
BRASS & BRONZE VALVES.



APPOLO
½" to 4"
BRASS & BRONZE VALVES.

CAST STEEL, SS, D.I, BRONZE, PVC VALVES



NEWWAY
CAST STEEL & SS
2" TO 36" VALVES



SPEARS
PVC & CPVC
2" TO 6" VALVES



BONNEY FORGE
CAST STEEL & SS
2" TO 36" VALVES



XOMOX
INTERNATIONAL NEEDLE
VALVES & PLUG VALVES



PAN KOREA
CAST STEEL & SS
2" TO 36" VALVES



BUTLER
BLOCK & BLEED VALVES



AVK
D.I & C.I
2" TO 36" VALVES



HYDROSEAL
PRESSURE RELIEF/
SAFETY VALVES



ACE VALVE
D.I & C.I
2" TO 36" VALVES



MIYAWAKI
STEAM TRAPS



ECONOSTO
D.I & C.I & BRONZE
2" TO 36" VALVES



ARMSTRONG
STRAINER

FORGED FITTINGS



DELCOTRE
SS & CS ½" TO 2"
CLASS 3000/6000 FITTINGS



PENN MACHINE
MONEL, SS & CS ½" TO 2"
CLASS 3000/6000 FITTINGS



HITACHI
MALLEABLE IRON
½" TO 4" FITTINGS



LE BRONZE IND
COPPER NICKEL
½" TO 4" FITTINGS

BUTT WELD CS, SS & C.I FITTINGS.

 **SBC BEND CO., LTD.**

SBC BEND CO
SS & CS 2" TO 36"
FITTINGS


BENKAN Corporation

THAI BENKAN CO
SS & CS 2" TO 36"
FITTINGS



AWAJI
SS & CS 2" TO 36"
FITTINGS



WILHELM SCHULZ GMBH
SS 2" TO 36"
FITTINGS



CUSTOM ALLOY CORPORATION
SS & CS 2" TO 36"
FITTINGS



CHARLOTTE
CAST IRON- 2" TO 36"
FITTINGS

FLANGES



PRECISION FORGINGS
SS & CS 2" TO 36"
FLANGES



MGI
SS & CS 2" TO 36"
FLANGES


le bronze industriel

LE BRONZE IND
COPPER NICKEL
2" TO 36"
FLANGES


value solutions in stainless steel

VIRAJ FORGINGS LTD
SS 2" TO 36"
FLANGES

PIPES



JESCO
1/2" TO 36"
PIPES


Ein Unternehmen der Salzgitter Gruppe

SALZGITTER MANNESMANN
1/2" TO 36"
SS PIPES



JIULI
1/2" TO 36"
PIPES



FROCH
1/2" TO 36"
SS PIPES



SUMITOMO
1/2" TO 36"
PIPES





OUTOKUMPU.
1/2" TO 36"
SS PIPES


SINCE 1968

GULF PLASTIC
1/2" TO 12"
PVC & CPVC PIPES


le bronze industriel

LE BRONZE IND
1/2" TO 12"
COPPER NICKEL PIPES

ELECTRICAL BRANDS



SAUDI CABLE COMPANY
INSTRUMENTATION,
COMMUNICATION
AND POWER CABLES



BELDEN
INSTRUMENTATION &
COMMUNICATION CABLES



OZ-GEDNEY
CIRCUIT BREAKER ENCLOSURE
& EXPLOSION PROOF
LIGHTING FIXTURES



APPLETON
CONDUIT FITTING IN
MALLEABLE IRON JUNCTION
BOX AND RECEPTACLES



SSP
RGS CONDUIT PIPES. ELECTRO
METTALIC TUBING,
FLEXIBLE METTALIC CONDUITS



WEIDMULLER
JUNCTIONS BOXES,
TERMINAL BOXES



COOPER BUSSMANN
CIRCUIT PROTECTION
SOLUTION AND
ALL TYPES OF FUSES



CARLON LAMSON & SESSIONS
LIQUID TIGHT NON
METTALIC, FLEXIBLE
CONDUITS & ACCESSORIES



ZINDCO
ALL TYPES OF PVC COATING
CONDUIT PIPES & FITTINGS



HAWKE CABLE GLANDS
ELECTRICAL ENCLOSURE,
HAWKE CABLE, PIPE TRANSIT
SYSTEMS



CROUSE-HINDS
HIGH QUALITY WIRING DEVICES AND
ROUGH IN ELECTRICAL PRODUCTS
IN INDUSTRIAL APPLICATION



3M
ELECTRICAL TAPES,
TERMINAL KITS & TOOLS, LUGS &
CONNECTORS, SOLVENTS & ABRASIVES,
SPECIAL HEAT SHRINKABLE PRODUCTS

LIGHTING BRANDS



NARDEEN LIGHTING
INTERIOR, EXTERIOR LIGHTING
FIXTURES FOR LIGHT INDUSTRIAL
APPLICATION



HUBBELL LIGHTING
OUTDOOR & INDOOR LIGHTING
SYSTEMS FOR RESIDENTIAL
COMMERCIAL & INDUSTRIAL APPLICATION



SAUDI LIGHTING
COMPLETE RANGE OF COMMERCIAL
AIR HANDLING, ROAD LIGHTING SYSTEMS



GENERAL ELECTRICAL
SAFETY SWITCHES, CIRCUIT
BREAKERS, ENCLOSURE,
TRANSFORMERS & SWITCH GEARS,
HALOGEN LAMPS, FLUORESCENT
LAMPS

INCHES UNITS
ANSI PIPE SCHEDULE
OD=Inches, Wall Thickness=Inches
Weight=lbs/ft, Vol/ft=ft

NOMINAL PIPE SIZE INCHES	OD INCHES	FIGURES BASED ON AUSTENITIC STEEL													SHIPPING Vol/ft ft ³						
		10	20	30	STD	40	60	XS	80	100	120	140	160	XXS		5S	10S	40S	80S		
1/8	0.405				0.068 0.24	0.068 0.24		0.095 0.31	0.095 0.31								0.049 0.15	0.068 0.24	0.095 0.31	0.004	
1/4	0.540				0.088 0.43	0.088 0.43		0.119 0.54	0.119 0.54								0.065 0.33	0.088 0.43	0.119 0.54	0.007	
3/8	0.675				0.091 0.57	0.091 0.57		0.126 0.74	0.126 0.74								0.065 0.42	0.091 0.57	0.126 0.74	0.011	
1/2	0.840				0.109 0.85	0.109 0.85		0.147 1.09	0.147 1.09					0.188 1.31	0.294 1.72		0.065 0.54	0.083 0.67	0.109 0.85	0.147 1.09	0.014
3/4	1.050				0.113 1.13	0.113 1.13		0.154 1.48	0.154 1.48					0.219 1.95	0.308 2.44		0.065 0.68	0.083 0.86	0.113 1.13	0.154 1.48	0.025
1	1.315				0.133 1.68	0.133 1.68		0.179 2.17	0.179 2.17					0.250 2.85	0.358 3.65		0.065 0.87	0.109 1.41	0.133 1.68	0.179 2.17	0.039
1 1/4	1.660				0.140 2.27	0.140 2.27		0.191 3.00	0.191 3.00					0.250 3.77	0.382 5.22		0.065 1.11	0.109 1.81	0.140 2.27	0.191 3.00	0.064
1 1/2	1.900				0.145 2.72	0.145 2.72		0.200 3.63	0.200 3.63					0.281 4.85	0.400 6.41		0.065 1.25	0.109 2.05	0.145 2.72	0.200 3.63	0.081
2	2.375				0.154 3.66	0.154 3.66		0.218 5.03	0.218 5.03					0.344 7.47	0.436 9.04		0.065 1.61	0.109 2.64	0.154 3.66	0.218 5.03	0.127
2 1/2	2.875				0.203 5.80	0.203 5.80		0.276 7.67	0.276 7.67					0.375 10.02	0.552 13.71		0.083 2.48	0.120 3.53	0.203 5.80	0.276 7.67	0.187
3	3.500				0.216 7.58	0.216 7.58		0.300 10.25	0.300 10.25					0.438 14.34	0.600 18.60		0.083 3.03	0.120 4.34	0.216 7.58	0.300 10.25	0.279
3 1/2	4.000				0.226 9.12	0.226 9.12		0.318 12.52	0.318 12.52								0.083 3.48	0.120 4.96	0.226 9.12	0.318 12.52	0.364
4	4.500				0.237 10.80	0.237 10.80		0.337 15.0	0.337 15.0		0.438 19.02			0.531 22.53	0.674 27.57		0.083 3.92	0.120 5.62	0.237 10.80	0.337 15.00	0.459
5	5.563				0.258 11.63	0.258 11.63		0.375 20.80	0.375 20.80		0.500 27.06			0.625 32.99	0.750 38.59		0.109 6.38	0.134 7.76	0.258 11.63	0.375 20.80	0.703
6	6.625				0.280 18.99	0.280 18.99		0.432 26.80	0.432 26.80		0.562 36.43			0.719 45.39	0.864 53.21		0.109 7.59	0.134 9.30	0.280 18.99	0.432 26.80	0.989
8	8.625	0.250 22.38	0.277 24.72		0.322 28.58	0.322 28.53	0.406 35.67	0.500 43.43	0.500 45.43	0.594 51.00	0.719 60.77	0.812 67.82		0.906 74.76	0.875 72.49		0.109 9.92	0.148 13.41	0.322 28.58	0.500 43.43	1.695
10	10.750	0.250 28.06	0.307 34.27		0.365 40.52	0.365 40.52	0.500 54.79	0.500 54.79	0.594 64.49	0.719 77.10	0.844 89.38	1.000 104.23		1.125 115.75	1.000 104.23		0.134 15.21	0.165 18.67	0.365 40.52	0.500 54.79	2.613
12	12.750	0.250 33.41	0.330 43.61		0.375 49.61	0.406 53.57	0.562 73.22	0.500 65.48	0.688 86.71	0.844 107.42	1.000 125.61	1.125 139.81		1.312 160.12	1.000 125.61		0.156 21.00	0.180 24.19	0.375 46.61	0.500 55.48	3.673
14	14.000	0.250 36.75	0.312 45.55	0.375 54.62	0.375 54.62	0.438 63.50	0.594 85.13	0.500 72.15	0.750 109.23	0.938 130.96	1.094 150.93	1.250 170.37		1.406 189.29			0.156 23.00	0.188 27.75			4.450
16	16.000	0.250 42.09	0.312 52.32	0.375 62.64	0.375 62.64	0.500 82.85	0.656 107.80	0.500 82.85	0.844 139.74	1.031 164.98	1.219 192.61	1.438 223.85		1.594 245.48			0.165 27.93	0.188 31.73			5.827
18	18.000	0.250 47.44	0.312 58.99	0.438 82.23	0.375 70.65	0.562 104.76	0.750 138.30	0.500 93.54	0.938 171.08	1.156 208.15	1.375 244.37	1.562 274.48		1.781 308.79			0.165 31.45	0.188 35.80			7.345
20	20.000	0.250 52.78	0.375 78.57	0.500 104.23	0.375 78.67	0.594 123.23	0.812 166.56	0.500 104.23	1.031 209.06	1.281 256.34	1.500 296.65	1.750 341.41		1.969 379.53			0.188 39.82	0.218 46.10			9.111
22	22.000	0.250 58.13	0.375 86.59	0.500 114.92	0.375 86.69		0.875 167.60	0.500 114.92	1.125 251.05	1.375 303.16	1.625 353.94	1.875 403.38		2.125 451.49			0.188 43.84	0.218 50.78			11.018
24	24.000	0.250 63.47	0.375 94.71	0.562 140.31	0.375 94.71	0.688 171.45	0.969 238.57	0.500 125.61	1.219 295.86	1.531 367.74	1.812 429.79	2.062 483.57		2.344 542.64			0.218 55.42	0.250 63.47			13.137
26	26.000	0.312 85.88	0.500 136.30		0.375 102.72			0.500 136.30													15.361
28	28.000	0.312 92.35	0.500 146.95	0.625 182.30	0.375 110.74			0.500 146.99													17.833
30	30.000	0.312 99.02	0.500 157.68	0.625 196.26	0.375 118.76			0.500 157.68									0.250 79.51	0.312 99.02			20.482
32	32.000	0.312 106.69	0.500 168.37	0.625 209.92	0.375 126.78	0.688 230.29		0.500 168.37													23.307
34	34.000	0.312 112.36	0.500 179.06	0.625 222.99	0.375 134.79	0.688 245.00		0.500 179.06													26.344
36	36.000	0.312 118.03	0.500 189.75	0.625 236.35	0.375 142.81	0.750 282.62		0.500 189.75													29.487
38	38.000				0.375 150.83			0.500 200.44													32.877
40	40.000				0.375 158.85			0.500 211.13													36.444
42	42.000				0.375 166.86			0.500 221.82													40.187
44	44.000				0.375 174.88			0.500 232.51													44.107
46	46.000				0.375 182.90			0.500 243.20													48.168
48	48.000				0.375 190.92			0.500 253.89													52.441

SI-UNITS | (METRIC)
ANSI PIPE SCHEDULE
 OD=mm, Wall Thickness=mm
 Weight=kg/m, Vol/m=m³

NOMINAL PIPE SIZE INCHES	OD MM														FIGURES BASED ON AUSTENITIC STEEL				SHIPPING Vol/m ³		
		10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	5S	10S	40S	80S			
1/8	10.30				1.73 0.37	1.73 0.37		2.41 0.47	2.41 0.47								1.24 0.28	1.73 0.37	2.41 0.47	0.0001	
1/4	13.70				2.24 0.53	2.24 0.63		3.02 0.80	3.02 0.80								1.65 0.49	2.24 0.53	3.02 0.80	0.0001	
3/8	17.10				2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10								1.65 0.63	2.31 0.84	3.20 1.10	0.0003	
1/2	21.30				2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62					4.78 1.55	7.47 2.55	1.65 0.80	2.11 1.90	2.77 1.27	3.73 1.62	0.0004	
3/4	26.70				2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20					5.56 4.24	7.82 5.45	1.65 1.20	2.11 2.09	2.87 2.50	3.91 3.24	0.0007	
1	33.40				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 1.20	2.77 2.09	3.38 2.50	4.55 3.24	0.0011	
1 1/4	42.20				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 1.65	2.77 2.69	3.56 3.39	4.85 4.47	0.0018	
1 1/2	48.30				3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41					7.14 7.25	10.15 9.55	1.65 1.90	2.77 3.11	3.68 4.05	5.08 5.41	0.0023	
2	60.30				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 2.39	2.77 3.93	3.91 5.44	5.54 7.48	0.0036	
2 1/2	73.00				5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41					9.53 14.92	14.02 26.39	2.11 3.69	3.05 5.20	5.16 8.53	7.01 11.41	0.0053	
3	88.90				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 4.52	3.05 6.46	5.49 11.29	7.62 15.27	0.0079	
3 1/2	101.60				5.74 13.57	5.74 13.57		8.08 18.64	8.08 18.64								2.11 5.18	3.05 7.41	5.74 13.57	8.08 18.64	0.0103
4	114.30				6.02 16.06	6.02 16.06		8.56 22.32	8.56 22.32			11.13 26.32		13.49 33.54	17.12 41.03	2.11 5.64	3.05 9.37	6.02 16.06	8.56 22.32	0.0130	
5	141.30				6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97			12.70 40.28		15.88 49.12	19.05 57.43	2.77 9.46	3.40 11.56	6.55 21.77	9.53 30.97	0.0199	
6	168.30				7.11 28.28	7.11 28.28		10.97 42.56	10.97 42.56			14.27 54.21		18.26 67.57	21.95 75.22	2.77 11.31	3.40 13.83	7.11 28.28	10.97 42.56	0.028	
6	219.10		6.35 33.32	7.04 36.82	8.18 42.55	8.18 42.55	10.31 53.09	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.93	23.01 111.27	22.23 107.93	2.77 14.78	3.76 19.97	8.18 42.55	12.70 64.64	0.048		
10	273.00		6.35 41.76	7.80 51.01	9.27 59.29	9.27 59.29	12.70 61.53	12.70 61.53	15.09 95.98	18.26 114.71	21.44 133.01	25.40 155.10	28.58 172.27	25.40 155.10	3.40 22.61	4.19 27.79	9.27 60.31	12.70 61.53	0.074		
12	323.80		6.35 49.71	8.38 65.19	9.53 73.86	10.31 79.71	14.27 108.93	12.70 97.44	17.48 132.05	21.44 159.87	25.40 186.92	28.58 208.08	33.32 238.68	25.40 186.92	3.96 31.25	4.57 35.99	9.53 73.86	12.70 97.44	0.104		
14	355.60	6.35 54.89	7.92 57.91	9.53 81.33	9.53 81.33	11.13 94.35	15.09 126.72	12.70 107.40	19.05 156.11	23.83 194.98	27.79 224.66	31.75 253.36	35.71 281.72		3.96 34.34	4.78 41.36			0.126		
16	406.40	6.35 62.65	7.92 77.63	9.53 85.27	9.53 85.27	12.70 123.31	16.86 160.13	12.70 123.31	21.44 263.54	26.19 245.97	30.96 286.66	36.53 333.21	40.49 359.38		4.19 41.56	4.78 47.34			0.165		
18	457.00	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.17	14.27 155.81	19.05 205.75	13.70 139.16	23.83 254.57	29.36 305.64	34.93 363.98	39.67 408.28	45.24 459.38		4.19 46.79	4.78 53.31			0.208		
20	508.00	6.35 78.56	9.53 117.15	12.70 155.13	9.53 117.15	15.09 183.43	20.62 217.84	12.70 155.13	26.19 311.19	32.54 381.55	38.10 441.82	44.45 509.15	50.01 554.85		4.78 50.32	5.54 68.65			0.258		
22	559.00	6.35 86.55	9.53 129.14	12.70 171.10	9.53 129.14		22.23 294.27	12.70 171.10	28.58 373.85	34.93 451.45	41.28 527.05	47.63 600.57	53.98 672.30		4.78 65.33	5.54 75.62			0.312		
24	610.00	6.35 94.53	9.53 141.12	14.27 209.55	9.53 141.12	17.48 255.43	24.61 355.28	12.70 187.07	30.96 442.11	38.89 547.74	46.02 640.07	52.37 720.19	59.54 898.27		5.54 82.58	6.35 94.53			0.372		
26	660.00	7.92 127.36	12.70 202.74		9.53 152.83			12.70 202.74												0.435	
28	711.00	7.92 137.32	12.70 216.71	15.88 272.23	9.53 164.85			12.70 216.71												0.505	
30	762.00	7.92 147.29	12.70 234.68	15.88 292.20	9.53 176.85			12.70 234.68							6.35 118.34	7.92 147.29				0.580	
32	813.00	7.92 157.25	12.70 250.65	15.88 312.17	9.53 188.83	17.48 342.94		12.70 250.65												0.660	
34	864.00	7.92 167.21	12.70 266.63	15.88 332.14	9.53 200.82	17.48 364.92		12.70 266.63												0.746	
36	914.00	7.92 176.97	12.70 282.29	15.88 351.73	9.53 212.57	19.05 420.45		12.70 282.29												0.835	
38	965.00				9.53 227.55			12.70 298.26												0.931	
40	1016.00				9.53 236.54			12.70 314.23												1.032	
42	1067.00				9.53 246.53			12.70 330.21												1.138	
44	1118.00				9.53 260.52			12.70 346.18												1.249	
46	1168.00				9.53 272.27			12.70 361.84												1.364	
48	1219.00				9.53 284.25			12.70 377.81												1.485	



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