



Huffaz

Commitment Towards Quality



A Step ahead
in **Engineering**
through
Innovation

Huffaz seamless Pipe Ind.Ltd. manufacture seamless steel carbon and low alloy steel pipes/tubes from high quality, aluminum-killed vacuum degassed billets / round bars. This project is jointly sponsored by a reputed Middle Eastern group and local sponsor directors on 100 % equity basis. Innovation in products, processes and systems, have helped Huffaz in establishing a leading name in the manufacturing of Seamless Steel Pipes/Tubes.

All the activities of the company are based on rich experience, technical knowledge, competence, trust and quality. The foremost objective of Huffaz is to supply products according to quality and lead-time desired by customers. We have total quality focused approach which is reflected in our certifications i.e., ISO 9001:2000, ISO 14001:1996, OHSAS 18001: 1999, API 5L and API 5 CT. Besides fulfilling the entire demand of domestic market including major oil and gas organizations, we are exporting our products to USA, Australia, the Middle East, Iran and Bangladesh.

Product Range

Boiler Tubes	Structural Pipes/Tubes
Heat Exchanger Tubes	Casing & Tubing
High/Low Temperature	Line Pipes with 3 Layers
Services Pipes/Tubes	Polyethylene /
Precision Pipes/Tubes	Polypropylene & Fusion
Mechanical Tubes	Bonded Epoxy coating
Line Pipes	Pipes/Tubes for
	Couplings and Casings

Size Range

Outer Diameter	6 mm ~ 273 mm
Wall Thickness	0.75 mm ~ 25 mm
Length	1~18mtr.

Within this range pipes/tubes of any size can be produced

Production capacity

100,000 MT per annum

Production Standards

ASTM A53, ASTM A106, ASTM A179, ASTM A192, ASTM A 199 ASTM A210, ASTM A213, ASTM A333, ASTM A334, ASTM A335, ASTM A519 API 5L, API 5CT
DIN 2391, DIN 2440, DIN 2441, DIN 2448, DIN 1629, DIN 1630, DIN 17173/2448, DIN 17175/2448
JIS G3464, JIS G3444
BS1387, BS3059/1, BS3059/2, BS1775, BS6323
NFA49-112, NFA49-1445, NFA 49-211
UNI8863

Any other standard as per requirement of the customer

Delivery Conditions

Plain end (square cut or beveled), Threaded and Coupled

Tests Performed

Destructive Tests: Tensile, Flattening, Flaring, Bending
N.D.T: Hydrostatic Test, Eddy Current Test, Chemical Analysis
Others as required by the standard or customer



Hot Rolling

Mill Test Certificate

Pipes/tubes are delivered with certificates as per required standard

Marking

On pipe surface (Die Stamp or Paint Stencil)
On bundles (Metal Label or Plastic Label)

Surface Protection

Outside protective coating (Paint, Oil, Varnish)
Hot Dip Galvanizing
Other coatings as per requirement of the customer

Packaging

In bundles
Special packing upon request

Quality Assurance

At Huffaz we believe in strict Quality Control at every stage from sourcing of our raw material to our finished products. Our commitment to Quality, Health/Safety and Environment is reflected in our compliance with International Quality Systems.



Billet Heating



Seamless Steel Pipes

Huffaz Engineering Works

Huffaz Engineering Works (HEW) has long been a key component in diverse expansion activities of HSP. Due to its versatile manufacturing capability the works has managed to emerge as one of the key engineering product and service suppliers in the country. Equipped with facilities such as:

- Machine Shop
- Forging
- Foundry (*Ferrous & Non-Ferrous*)
- Fabrication
- Hard Chrome
- Heat Treatment

We have managed to infiltrate key areas of engineering products market.

Following the foot steps of its parent company, **HEW** has maintained its resolve to deliver products and services at the right cost, time and quality. We believe in continuous and relentless efforts to ensure complete satisfaction of all our customers and other stakeholders.



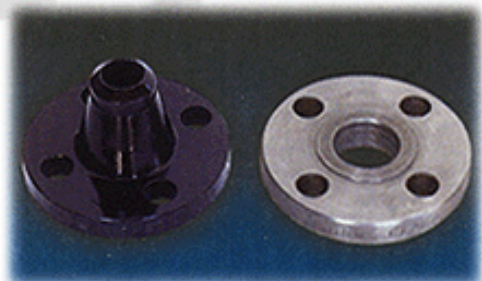
Chain Sprockets

Products & Services

- Pipe Flanges and Fittings for Pipe Lines, Boilers & Heat exchangers
- Chain Sprockets, Gears and Worm Wheels
- Hi-tech, Precision Mechanical Components
- Dies & Moulds
- Tube Bending & Intricate Fabrication
- Machinery Components for Various Applications
- Product Design & Development



Railway Axle



Pipe Flanges



Forging



Gear Hobbing



Profile Turning

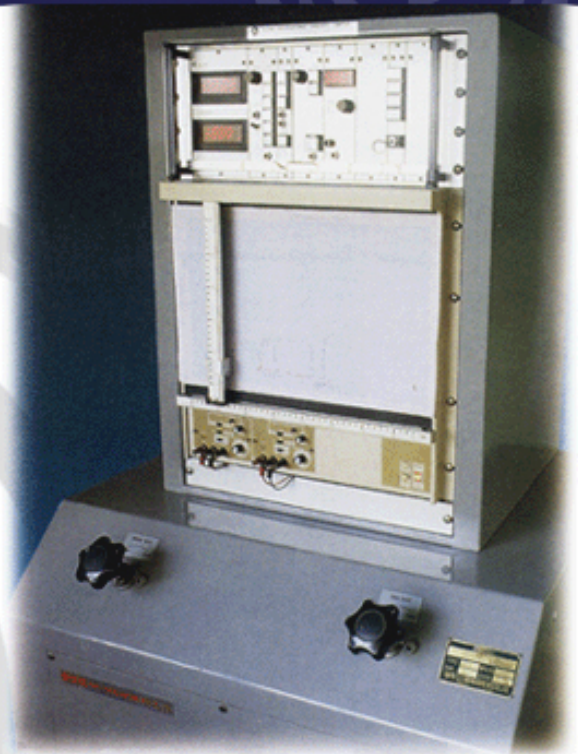
Huffaz Laboratories

HEW is equipped with most modern testing facilities including Spectrometer, Tensile Testing Machine, various kinds of Hardness Testers, Metallographic equipment and Non-Destructive Testing.

We test and certify carbon, alloy and stainless steel rolled /cast - /forged products for various industries across the country while providing invaluable service to our internal customers.



Spectrometer



Tensile Testing Machine

Huffaz

Seamless Pipe Industries Limited



Huffaz Engineering Works

90 K.M. Super Highway, Nooriabad Industrial Estate,
District Jamshoro, Sind, Pakistan.

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API 5 CT Tubing

TUBING SIZES, DIMENSIONS & WEIGHTS

Designation		Outside Diameter		Wall Thickness		Plain End Weight (wpe)	
Size	Weight	in.	mm.	in.	mm.	lb/ft	kg
1.050	1.14	1.050	26.7	0.113	2.87	1.13	1.68
	1.20			0.113	2.87	1.13	1.68
	1.48			0.154	3.91	1.48	2.20
	1.54			0.154	3.91	1.48	2.20
1.315	1.70	1.315	33.4	0.133	3.38	1.68	2.50
	1.72			0.133	3.38	1.68	2.50
	1.80			0.133	3.38	1.68	2.50
	2.19			0.179	4.55	2.17	3.24
	2.24			0.179	4.55	2.17	3.24
1.660	2.10	1.660	42.2	0.125	3.18	2.05	3.05
	2.30			0.140	3.56	2.27	3.39
	2.33			0.140	3.56	2.27	3.39
	2.40			0.140	3.56	2.27	3.39
	3.03			0.191	4.85	3.00	4.46
	3.07			0.191	4.85	3.00	4.46
1.900	2.40	1.900	48.3	0.125	3.18	2.37	3.53
	2.75			8.145	3.68	2.72	4.05
	2.76			0.145	3.68	2.72	4.05
	2.90			0.145	3.68	2.72	4.05
	3.65			0.200	5.08	3.63	5.41
	3.73			0.200	5.08	3.63	5.41
	4.42			0.250	6.35	4.41	6.56
	5.15			0.300	7.62	5.13	7.64
	-			0.225	5.72	4.42	6.58
2 ½	4.00	2.375	60.3	0.167	4.24	3.94	5.87
	4.60			0.190	4.83	4.44	6.60
	4.70			0.190	4.83	4.44	6.60
	5.80			0.254	6.45	5.76	8.57
	5.95			0.254	6.45	5.76	8.57
	6.60			0.295	7.49	6.56	9.76
	7.35			0.336	8.53	7.32	10.90
	7.45			0.336	8.53	7.32	10.90
2 ½	6.40	2.875	73.0	0.217	5.51	6.17	9.18
	6.50			0.217	5.51	6.17	9.18
	7.80			0.276	7.01	7.67	11.41
	7.90			0.276	7.01	7.67	11.41
	8.60			0.308	7.82	8.45	12.58
	8.70			0.308	7.82	8.45	12.58
	9.35			0.340	8.64	9.21	13.71
	9.45			0.340	8.64	9.21	13.71
	10.50			0.392	9.96	10.40	15.49
	11.50			0.440	11.18	11.45	17.05
	-			-	-	-	-
3 ½	7.70	3.500	88.9	0.216	5.49	7.58	11.29
	9.20			0.254	6.45	8.81	13.12
	9.30			0.254	6.45	8.81	13.12
	10.20			0.289	7.34	9.92	14.76
	12.70			0.375	9.53	12.53	18.64
	12.95			0.375	9.53	12.53	18.64
	14.30			0.430	10.92	14.11	21.00
	15.50			0.476	12.09	15.39	22.90
	17.00			0.530	13.46	16.83	25.04
	-			-	-	-	-
4	9.50	4.000	101.6	0.226	5.74	9.12	13.57
	11.00			0.262	6.65	10.47	15.58
	13.20			0.330	8.38	12.95	19.27
	16.10			0.415	10.54	15.90	23.67
	18.90			0.500	12.70	18.71	27.84
	22.20			0.610	15.49	22.11	32.90
	-			-	-	-	-
4 ½	12.60	4.500	114.3	0.271	6.88	12.25	18.23
	12.75			0.271	6.88	12.25	18.23
	15.20			0.337	8.56	15.00	22.32
	17.00			0.380	9.65	16.77	24.91
	18.90			0.430	10.92	18.71	27.84
	21.50			0.500	12.70	21.38	31.82
	23.70			0.560	14.22	23.59	35.10
	26.10			0.630	16.00	26.06	38.79
	-			-	-	-	-

API 5 CT Casing

TUBING SIZES, DIMENSIONS & WEIGHTS

Designation		Outside Diameter		Wall Thickness		Plain End Weight (wpe)	
Size	Weight	in.	mm.	in.	mm.	lb/ft	kg/m
4 1/2	9.50	4.500	114.3	0.205	5.21	9.41	14.01
	10.50			0.224	5.69	10.24	15.24
	11.60			0.250	6.35	11.36	16.90
	13.50			0.290	7.37	13.05	19.42
	15.10			0.337	8.56	15.00	22.32
5	11.50	5.000	127.0	0.220	5.59	11.24	16.73
	13.00			0.253	6.43	12.84	19.11
	15.00			0.296	7.52	14.88	22.15
	18.00			0.362	9.19	17.95	26.71
	21.40			0.437	11.10	21.32	31.72
	23.20			0.478	12.14	23.11	34.39
	24.10			0.500	12.70	24.05	35.80
5 1/2	14.00	5.500	139.7	0.244	6.20	13.71	20.40
	15.50			0.275	6.99	15.36	22.86
	17.00			0.304	7.72	16.89	25.13
	20.00			0.361	9.17	19.83	29.52
	23.00			0.415	10.54	22.56	33.57
	26.80			0.500	12.70	26.72	39.77
	29.70			0.562	14.27	29.67	44.15
	32.60			0.625	15.88	32.57	48.47
	35.30			0.687	17.45	35.35	52.61
	38.00			0.750	19.05	38.08	56.68
	40.50			0.812	20.62	40.69	60.56
	43.10			0.875	22.23	43.26	64.38
6 5/8	20.00	6.625	168.3	0.288	7.32	19.51	29.04
	24.00			0.352	8.94	23.60	35.13
	28.00			0.417	10.59	27.67	41.19
	32.00			0.475	12.07	31.23	46.48
7	17.00	7.000	177.8	0.231	5.87	16.72	24.88
	20.00			0.272	6.91	19.56	29.11
	23.00			0.317	8.05	22.65	33.70
	26.00			0.362	9.19	25.69	38.23
	29.00			0.408	10.36	28.75	42.79
	32.00			0.453	11.51	31.70	47.18
	35.00			0.498	12.65	34.61	51.52
	38.00			0.540	13.72	37.29	55.50
	42.70			0.626	15.90	42.65	63.48
	46.40			0.687	17.45	46.36	69.00
	50.10			0.750	19.05	50.11	74.58
	53.60			0.812	20.62	53.71	79.94
	57.10			0.875	22.23	57.29	85.27
7 5/8	24.00	7.625	193.7	0.300	7.62	23.49	34.96
	26.40			0.328	8.33	25.59	38.08
	29.70			0.375	9.53	29.06	43.25
	33.70			0.430	10.92	33.07	49.22
	39.00			0.500	12.70	38.08	56.68
	42.80			0.562	14.27	42.43	63.15
	45.30			0.595	15.11	44.71	66.55
	47.10			0.625	15.88	46.77	69.60
	51.20			0.687	17.45	50.95	75.83
	55.30			0.750	19.05	55.12	82.03
7 3/4	46.10	7.750	196.9	0.595	15.11	45.54	67.73
8 5/8	24.00	8.625	219.1	0.264	6.71	23.60	35.12
	28.00			0.304	7.72	27.04	40.24
	32.00			0.352	8.94	31.13	46.33
	36.00			0.400	10.16	35.17	52.34
	40.00			0.450	11.43	39.33	58.53
	44.00			0.500	12.70	43.43	64.63
9 5/8	49.00	9.625	244.5	0.557	14.15	48.04	71.50
	32.30			0.312	7.92	31.06	46.23
	36.00			0.352	8.94	34.89	51.93
	40.00			0.395	10.03	38.97	58.00
	43.50			0.435	11.05	42.73	63.60
	47.00			0.472	11.99	46.18	68.73
	53.50			0.545	13.84	52.90	78.73
	58.40			0.595	15.11	57.44	85.48
	59.40			0.609	15.47	58.70	87.36
	64.90			0.672	17.07	64.32	95.72
	70.30			0.734	18.64	69.76	103.83
	75.60			0.797	20.24	75.21	111.94
10 3/8	32.75	10.750	273.1	0.279	7.09	31.23	46.48
	40.50			0.350	8.89	38.91	57.91
	45.50			0.400	10.16	44.26	65.87
	51.00			0.450	11.43	49.55	73.74
	55.50			0.495	12.57	54.26	80.76
	60.70			0.545	13.84	59.45	88.49
	65.70			0.595	15.11	64.59	96.13
	73.20			0.672	17.07	72.40	107.75
	79.20			0.734	18.64	78.59	116.96
	85.30			0.797	20.24	84.80	126.20

ASTM A53 Plain Ends, Threads and Coupling ASTM A106 Plain Ends

Nom. Size	Outside Diameter		Wall Thickness		Schedule Number	Nominal Weight			
						Plain End		Threads and Coupling	
in	in	mm.	in.	mm.		lb/ft	kg/m	lb/ft	kg/m
1/8	0.405	10.3	0.068	1.73	40 (STD)	0.24	0.36	0.24	0.37
			0.095	2.41	80 (XS)	0.31	0.47	0.32	0.46
1/4	0.540	13.7	0.088	2.24	40 (STD)	0.42	0.63	0.42	0.63
			0.119	3.02	80 (XS)	0.54	0.80	0.54	0.80
3/8	0.675	17.1	0.091	2.31	40 (STD)	0.57	0.84	0.57	0.84
			0.126	3.20	80 (XS)	0.74	1.10	0.74	1.10
1/2	0.840	21.3	0.109	2.77	40 (STD)	0.85	1.27	0.85	1.27
			0.147	3.73	80 (XS)	1.09	1.62	1.09	1.62
			0.188	4.78	160 ---	1.31	1.95	---	---
			0.294	7.47	--- (XXS)	1.71	2.55	1.72	2.54
3/4	1.050	26.7	0.113	2.87	40 (STD)	1.13	1.69	1.13	1.69
			0.154	3.91	80 (XS)	1.47	2.20	1.48	2.21
			0.219	5.56	160 ---	1.94	2.90	---	---
			0.308	7.82	--- (XXS)	2.44	3.64	2.44	3.64
1	1.315	33.4	0.133	3.38	40 (STD)	1.68	2.50	1.68	2.50
			0.179	4.55	80 (XS)	2.17	3.24	2.18	3.25
			0.250	6.35	160 ---	2.84	4.24	---	---
			0.358	9.09	--- (XXS)	3.66	5.45	3.66	5.45
1 1/4	1.660	42.2	0.140	3.56	40 (STD)	2.27	3.39	2.28	3.40
			0.191	4.85	80 (XS)	3.00	4.47	3.02	4.49
			0.250	6.35	160 ---	3.76	5.61	---	---
			0.382	9.70	--- (XXS)	5.21	7.77	5.22	7.76
1 1/2	1.900	48.3	0.145	3.68	40 (STD)	2.72	4.05	2.73	4.04
			0.200	5.08	80 (XS)	3.63	5.41	3.66	5.39
			0.281	7.14	160 ---	4.86	7.25	---	---
			0.400	10.16	--- (XXS)	6.41	9.56	6.41	9.56
2	2.375	60.3	0.154	3.91	40 (STD)	3.65	5.44	3.68	5.46
			0.218	5.54	80 (XS)	5.02	7.48	5.07	7.55
			0.344	8.74	160 ---	7.46	11.11	---	---
			0.436	11.07	--- (XXS)	9.03	13.44	9.03	13.44
2 1/2	2.875	73.0	0.203	5.16	40 (STD)	5.79	8.63	5.82	8.67
			0.276	7.01	80 (XS)	7.66	11.41	7.73	11.52
			0.375	9.52	160 ---	10.01	14.90	---	---
			0.525	14.02	--- (XXS)	13.70	20.39	13.70	20.39
3	3.500	88.9	0.125	3.18	---	4.51	6.72	---	---
			0.156	3.96	---	5.57	8.29	---	---
			0.188	4.78	---	6.65	9.92	---	---
			0.216	5.49	40 (STD)	7.58	11.29	7.62	11.35
			0.250	6.35	---	8.68	12.93	---	---
			0.281	7.14	---	9.66	14.40	---	---
			0.300	7.62	80 (XS)	10.25	15.27	10.33	15.39
			0.438	11.13	160 ---	14.32	21.35	---	---
3 1/2	4.000	101.6	0.600	15.24	--- (XXS)	8.58	27.68	18.57	27.66
			0.125	3.18	---	5.17	7.72	---	---
			0.156	3.96	---	6.40	9.53	---	---
			0.188	4.78	---	7.65	11.41	---	---
			0.226	5.74	40 (STD)	9.11	13.57	9.20	13.71
			0.250	6.35	---	10.01	14.92	---	---
			0.281	7.14	---	11.16	16.63	---	---
			0.318	8.08	80 (XS)	12.51	18.63	12.63	18.82
4	4.500	114.3	0.125	3.18	---	5.84	8.71	---	---
			0.156	3.96	---	7.24	10.78	---	---
			0.188	4.78	---	8.66	12.91	---	---
			0.219	5.56	---	10.01	14.91	---	---
			0.237	6.02	40 (STD)	10.79	16.07	10.89	16.23
			0.250	6.35	---	11.35	16.90	---	---
			0.281	7.14	---	12.66	18.87	---	---
			0.312	7.92	---	13.98	20.78	---	---
			0.337	8.56	80 (XS)	14.98	22.32	15.17	22.60
			0.438	11.13	120 ---	19.00	28.32	---	---
			0.531	13.49	160 ---	22.51	33.54	---	---
			0.674	17.12	--- (XXS)	27.54	41.03	27.58	41.09

Other sizes and specifications according to ASTM standards are available

ASTM A53 Plain Ends, Threads and Coupling ASTM A106 Plain Ends

Nom. Size	Outside Diametre		Wall Thickness		Schedule Number	Nominal Weight			
						Plain End		Threads and Coupling	
in	in	mm.	in.	mm.		lb/ft	kg/m	lb/ft	kg/m
5	5.563	141.3	0.156	3.96	---	9.01	13.41	---	---
			0.188	4.78	---	10.79	16.09	---	---
			0.219	5.56	---	12.50	18.61	---	---
			0.258	6.55	40 (STD)	14.62	21.77	14.90	22.07
			0.281	7.14	---	15.85	23.62	---	---
			0.312	7.92	---	17.50	26.05	---	---
			0.344	8.74	---	19.17	28.57	---	---
			0.375	9.52	80 (XS)	20.78	30.97	21.04	31.42
			0.500	12.70	20	27.04	40.28	---	---
			0.625	15.88	160	32.96	49.11	---	---
			0.750	19.05	---	38.55	57.43	38.63	57.53
6	6.625	168.3	0.188	4.78	---	12.92	19.27	---	---
			0.219	5.56	---	14.98	22.31	---	---
			0.250	6.35	---	17.02	25.36	---	---
			0.280	7.11	40 (STD)	18.97	28.26	19.34	28.58
			0.312	7.92	---	21.04	31.32	---	---
			0.344	8.74	---	23.08	34.39	---	---
			0.375	9.52	---	25.03	37.31	---	---
			0.432	10.97	80 (XS)	28.57	42.56	28.88	43.05
			0.562	14.27	120	36.39	54.20	---	---
			0.719	18.26	160	45.35	67.56	---	---
			0.864	21.95	---	53.16	79.22	53.19	79.18
8	8.625	219.1	0.188	4.78	---	16.94	25.26	---	---
			0.203	5.16	---	18.26	27.22	---	---
			0.219	5.56	---	19.66	29.28	---	---
			0.250	6.35	20	22.36	33.31	---	---
			0.277	7.04	30	24.70	36.81	25.53	38.07
			0.312	7.92	---	27.70	41.24	---	---
			0.322	8.18	40 (STD)	28.55	42.55	29.35	43.73
			0.344	8.74	---	30.42	45.34	---	---
			0.375	9.52	---	33.04	49.25	---	---
			0.406	10.31	60	35.64	53.08	---	---
			0.438	11.31	---	38.30	57.08	---	---
			0.500	12.70	80 (XS)	43.39	64.64	44.00	65.41
			0.594	15.09	100	50.95	75.92	---	---
			0.719	18.26	120	60.71	90.44	---	---
			0.812	20.62	140	67.76	100.92	---	---
			0.875	22.22	---	72.42	107.92	72.69	107.94
10	10.750	273.0	0.906	23.01	160	74.69	111.27	---	---
			0.188	4.78	---	21.21	31.63	---	---
			0.203	5.16	---	22.87	34.09	---	---
			0.219	5.56	---	24.63	36.67	---	---
			0.250	6.35	20	28.04	41.77	---	---
			0.279	7.09	---	31.20	46.51	32.33	48.80
			0.307	7.80	30	34.24	51.03	35.33	53.27
			0.344	8.74	---	38.23	56.98	---	---
			0.365	9.27	40 (STD)	40.48	60.31	41.49	63.36
			0.438	11.13	---	48.19	71.90	---	---
			0.500	12.70	60 (XS)	54.74	81.55	55.55	83.17
			0.594	15.09	80	64.43	96.01	---	---
			0.719	18.26	100	77.03	114.75	---	---
			0.844	21.44	120	89.29	133.06	---	---
			1.000	25.40	140 (XXS)	104.13	155.15	---	---

Other sizes and specifications according to ASTM standards are available

British Standards (BS)

BS 1387 Plain Ends, Threads and Coupling (Light)						
Nominal Size		Outside Diameter mm		Thickness mm	Weight of Black Pipe kg/m	
		max	min		Plain Ends	Screw'd & Sock'd
1/4	8	13.6	13.2	1.8	0.515	0.519
3/8	10	17.1	16.7	1.8	0.670	0.676
1/2	15	21.4	21.0	2.0	0.947	0.956
3/4	20	26.9	26.4	2.3	1.38	1.39
1	25	33.8	33.2	2.6	1.98	2.00
1 1/4	32	42.5	41.9	2.6	2.54	2.57
1 1/2	40	47.8	47.8	2.9	3.23	3.27
2	50	60.2	59.6	2.9	4.08	4.15
2 1/2	65	76.0	75.2	3.2	5.71	5.83
3	80	88.7	87.9	3.2	6.72	6.89
4	100	113.9	113.0	3.6	9.75	10.0
BS 1387 Plain Ends, Threads and Coupling (Medium)						
Nominal Size		Outside Diameter mm		Thickness mm	Weight of Black Pipe kg/m	
		max	min		Plain Ends	Screw'd & Sock'd
1/4	8	13.9	13.3	2.3	0.641	0.645
3/8	10	17.4	16.8	2.3	0.839	0.845
1/2	15	21.7	21.1	2.6	1.21	1.22
3/4	20	27.2	26.6	2.6	1.56	1.57
1	25	34.2	33.4	3.2	2.41	2.43
1 1/4	32	42.9	42.1	3.2	3.10	3.13
1 1/2	40	48.8	48.0	3.2	3.57	3.61
2	50	60.8	59.8	3.6	5.03	5.10
2 1/2	65	76.6	75.4	3.6	6.43	6.55
3	80	89.5	88.1	4.0	8.37	8.54
4	100	114.9	113.3	4.5	12.2	12.5
5	125	140.6	138.7	5.0	16.6	17.1
6	150	166.1	164.1	5.0	19.7	20.3
BS 1387 Plain Ends, Threads and Coupling (Heavy)						
Nominal Size		Outside Diameter mm		Thickness mm	Weight of Black Pipe kg/m	
		max	min		Plain Ends	Screw'd & Sock
1/4	8	13.9	13.3	2.9	0.765	0.769
3/8	10	17.4	16.8	2.9	1.02	1.03
1/2	15	21.7	21.1	3.2	1.44	1.45
3/4	20	27.2	26.6	3.2	1.87	1.88
1	25	34.2	33.4	4.0	2.94	2.96
1 1/4	32	42.9	42.1	4.0	3.80	3.83
1 1/2	40	48.8	48.0	4.0	4.38	4.42
2	50	60.8	59.8	4.5	6.19	6.26
2 1/2	65	76.6	75.4	4.5	7.93	8.05
3	80	89.5	88.1	5.0	10.3	10.5
4	100	114.9	113.3	5.4	14.5	14.8
5	125	140.6	138.7	5.4	17.9	18.4
6	150	166.1	164.1	5.4	21.3	21.9

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O.D.	Wall Thickness (mm)																		
	1.6	1.8	2	2.3	2.6	2.9	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8	8.8	10	11	12.5
mm	Weight (kg/m)																		
10.2	0.34	0.37	0.40	0.45	0.49														
13.5		0.52	0.57	0.64	0.70	0.76													
16.0		0.63	0.69	0.78	0.86	0.94													
17.2		0.68	0.75	0.85	0.94	1.02	1.10	1.21											
19.0			0.84	0.95	1.05	1.15	1.25	1.37	1.48	1.61									
20.0			0.89	1.00	1.12	1.22	1.33	1.46	1.58	1.72									
21.3			0.95	1.08	1.20	1.32	1.43	1.57	1.71	1.86	2.01								
25.0			1.13	1.29	1.44	1.58	1.72	1.90	2.07	2.28	2.47	2.68							
25.4			1.15	1.31	1.46	1.61	1.75	1.94	2.11	2.32	2.52	2.73							
26.9			1.23	1.40	1.56	1.72	1.87	2.07	2.26	2.49	2.70	2.94							
30.0				1.57	1.76	1.94	2.11	2.34	2.56	2.83	3.08	3.37							
31.8				1.67	1.87	2.07	2.26	2.50	2.74	3.03	3.30	3.62							
33.7				1.78	1.99	2.20	2.41	2.67	2.93	3.24	3.54	3.88	4.26						
38.0					2.27	2.51	2.75	3.05	3.35	3.72	4.07	4.47	4.93						
42.4					2.55	2.82	3.09	3.44	3.79	4.21	4.61	5.08	5.61						
44.5					2.69	2.98	3.26	3.63	4.00	4.44	4.87	5.37	5.94	6.55					
48.3					2.93	3.25	3.56	3.97	4.37	4.86	5.34	5.90	6.53	7.21					
51.0					3.10	3.44	3.77	4.21	4.64	5.16	5.67	6.27	6.94	7.69					
54.0					3.30	3.65	4.01	4.47	4.93	5.49	6.04	6.68	7.41	8.21					
57.0						3.87	4.25	4.74	5.23	5.83	6.41	7.10	7.88	8.74	9.67				
60.3						4.11	4.51	5.03	5.55	6.19	6.82	7.55	8.39	9.32	10.32	11.18			
63.5						4.33	4.76	5.32	5.87	6.55	7.21	8.00	8.89	9.88	10.95	11.87			
70.0						4.80	5.27	5.90	6.51	7.27	8.01	8.89	9.90	11.01	12.23	13.28	14.80		
73.0						5.01	5.51	6.16	6.81	7.60	8.38	9.31	10.36	11.54	12.82	13.93	15.54	16.82	18.65
76.1							5.75	6.44	7.11	7.95	8.77	9.74	10.84	12.08	13.44	14.61	16.30	17.66	19.61
82.5							6.26	7.00	7.74	8.66	9.56	10.62	11.84	13.20	14.7	15.99	17.88	19.40	21.58
88.9							6.76	7.57	8.38	9.37	10.35	11.5	12.83	14.32	15.96	17.38	19.46	21.13	23.55
101.6								8.70	9.63	10.78	11.91	13.26	14.81	16.55	18.47	20.14	22.59	24.58	27.47
108								9.27	10.26	11.49	12.7	14.14	15.8	17.67	19.73	21.53	24.17	26.31	29.44
114.3								9.83	10.88	12.19	13.48	15.01	16.78	18.77	20.97	22.90	25.72	28.02	31.38
127									12.1	13.6	15.0	16.8	18.8	21.0	23.5	25.7	28.9	31.5	35.3
133									12.7	14.3	15.8	17.6	19.7	22.0	24.7	27.0	30.3	33.1	37.1
139.7									13.4	15.0	16.6	18.5	20.7	23.2	26.0	28.4	32.0	34.9	39.2
152.4										16.4	18.2	20.3	22.7	25.4	28.5	31.2	35.1	38.4	43.1
159										12.1	19.0	21.2	23.7	26.6	29.8	32.6	36.7	40.1	45.2
168.3										18.2	20.1	22.5	25.2	28.2	31.6	34.6	39.0	42.7	48.0
177.8											21.3	23.8	26.6	29.9	33.5	36.7	41.4	45.2	51.0
193.7												26.0	29.1	32.7	36.6	40.1	45.3	49.6	55.9
219.1													33.1	37.1	41.6	45.6	51.6	56.5	63.7

Other sizes (diameter & wall thickness) can also be manufactured on customer's requirement

API 5L Plain End Pipes

Sizes	Outside Diameter		Wall Thickness		Nominal Weight	
	in.	mm.	in	mm	lb/ft	kg/m
0.405	0.405	10.3	0.068	1.7	0.24	0.36
			0.695	2.4	0.31	0.47
0.540	0.540	13.7	0.088	2.2	0.42	0.62
			0.119	3.0	0.54	0.79
0.675	0.675	17.1	0.091	2.3	0.57	0.84
			0.126	3.2	0.74	1.10
0.840	0.840	21.3	0.109	2.8	0.85	1.28
			0.147	3.7	1.09	1.61
			0.294	7.5	1.71	2.55
1.050	1.050	26.7	0.113	2.9	1.13	1.70
			0.154	3.9	1.47	2.19
			0.308	7.8	2.44	3.64
1.315	1.315	33.4	0.133	3.4	1.68	2.52
			0.179	4.5	2.17	3.21
			0.358	9.1	3.66	5.45
1.660	1.660	42.2	0.140	3.6	2.27	3.43
			0.191	4.9	3.00	4.51
			0.382	9.7	5.21	7.77
1.900	1.900	48.3	0.145	3.7	2.72	4.07
			0.200	5.1	3.63	5.43
			0.400	10.2	6.41	9.58
2 3/8	2.375	60.3	0.083	2.1	2.03	3.01
			0.109	2.8	2.64	3.9
			0.125	3.2	3.00	4.51
			0.141	3.6	3.36	5.03
			0.154	3.9	3.65	5.42
			0.172	4.4	4.05	6.07
			0.188	4.8	4.39	6.57
			0.218	5.5	5.02	7.43
			0.250	6.4	5.67	8.51
			0.281	7.1	6.28	9.31
			0.436	11.1	9.03	13.47
2 7/8	2.875	73.0	0.083	2.1	2.47	3.67
			0.109	2.8	3.22	4.85
			0.125	3.2	3.67	5.51
			0.141	3.6	4.12	6.16
			0.156	4.0	4.53	6.81
			0.172	4.4	4.97	7.44
			0.188	4.8	5.40	8.07
			0.203	5.2	5.79	8.69
			0.216	5.5	6.13	9.16
			0.250	6.4	7.01	10.51
			0.276	7.0	7.66	11.39
			0.552	14.0	13.69	20.37
3 1/2	3.500	88.9	0.083	2.1	3.03	4.50
			0.109	2.8	3.95	5.95
			0.125	3.2	4.51	6.76
			0.141	3.6	5.06	7.57
			0.156	4.0	5.57	8.37
			0.172	4.4	6.11	9.17
			0.188	4.8	6.65	9.95
			0.216	5.5	7.58	11.31
			0.250	6.4	8.68	13.02
			0.281	7.1	9.66	14.32
			0.300	7.6	10.25	15.24
			0.600	15.2	18.58	27.63
4.00	4.000	101.6	0.083	2.1	3.47	5.15
			0.109	2.8	4.53	6.82
			0.125	3.2	5.17	7.76
			0.141	3.6	5.81	8.70
			0.156	4.0	6.40	9.63
			0.172	4.4	7.03	10.55
			0.188	4.8	7.65	11.46
			0.226	5.7	9.11	13.48
			0.250	6.4	10.01	15.02
			0.281	7.1	11.16	16.55
			0.318	8.1	12.50	18.68
4 1/2	4.500	114.3	0.083	2.1	3.92	5.81
			0.125	3.2	5.84	8.77
			0.141	3.6	6.56	9.83
			0.156	4.0	7.24	10.88
			0.172	4.4	7.95	11.92
			0.188	4.8	8.66	12.96
			0.203	5.2	9.32	13.99
			0.219	5.6	10.01	15.01
			0.237	6.0	10.79	16.02
			0.250	6.4	11.35	17.03
			0.281	7.1	12.66	18.77
			0.312	7.9	13.96	20.73
			0.337	8.6	15.00	22.42
			0.438	11.1	19.00	28.25
			0.531	13.5	22.51	33.56
			0.674	17.1	27.54	40.99

Other sizes and specifications according to API standards are available

API 5L Plain End Pipes

Sizes	Outside Diameter		Wall Thickness		Nominal Weight	
	in.	mm.	in	mm	lb/ft	kg/m
5 9/16	5.563	141.3	0.083	2.1	4.86	7.21
			0.125	3.2	7.26	10.9
			0.156	4.0	9.01	13.54
			0.188	4.8	10.79	16.16
			0.219	5.6	12.50	18.74
			0.258	6.6	14.62	21.92
			0.281	7.1	15.85	23.50
			0.312	7.9	17.50	25.99
			0.344	8.7	19.17	28.45
			0.375	9.5	20.78	30.88
			0.500	12.7	27.04	40.28
			0.625	15.9	32.96	49.17
			0.750	19.1	38.55	57.56
6 5/8	6.625	168.3	0.083	2.1	5.80	8.61
			0.109	2.8	7.59	11.43
			0.125	3.2	8.68	13.03
			0.141	3.6	9.76	14.62
			0.156	4.0	10.78	16.21
			0.172	4.4	11.85	17.78
			0.188	4.8	12.92	19.35
			0.203	5.2	13.92	20.91
			0.219	5.6	14.98	22.47
			0.250	6.4	17.02	25.55
			0.280	7.1	18.97	28.22
			0.312	7.9	21.04	31.25
			0.344	8.7	23.08	34.24
			0.375	9.5	25.03	37.20
			0.432	11.0	28.57	42.67
			0.500	12.7	32.71	48.73
			0.562	14.3	36.39	54.31
			0.625	15.9	40.05	59.76
			0.719	18.3	45.35	67.69
			0.750	19.1	47.06	70.27
8 5/8	8.625	219.1	0.864	21.9	53.16	79.06
			0.875	22.2	53.73	79.98
			0.125	3.2	11.35	17.04
			0.156	4.0	4.11	21.22
			0.188	4.8	16.94	25.37
			0.203	5.2	18.26	27.43
			0.219	5.6	19.66	29.48
			0.250	6.4	22.36	33.57
			0.277	7.0	24.70	36.61
			0.312	7.9	27.70	41.14
			0.322	8.2	28.55	42.65
			0.344	8.7	30.42	45.14
			0.375	9.5	33.04	49.10
			0.438	11.13	8.30	56.94
			0.500	12.7	43.39	64.64
			0.562	14.3	48.40	72.22
			0.625	15.9	53.40	79.67
10 3/4	10.750	273.1	0.719	18.3	60.71	90.62
			0.750	19.1	63.08	94.20
			0.812	20.6	67.76	100.84
			0.875	22.2	72.42	107.79
			1.000	25.4	81.51	121.32
			0.156	4.0	17.67	26.54
			0.188	4.8	21.23	31.76
			0.203	5.2	22.89	34.35
			0.219	5.6	24.65	36.94
			0.250	6.4	28.06	42.09
			0.279	7.1	31.23	46.57
			0.307	7.8	34.27	51.03
			0.344	8.7	38.27	56.72
			0.365	9.3	40.52	60.50
			0.438	11.1	48.28	71.72
			0.500	12.7	54.79	81.55
			0.562	14.3	61.21	91.26
			0.625	15.9	67.65	100.85
			0.719	18.3	77.10	114.99
			0.812	20.6	86.26	128.27
			0.875	22.2	92.37	137.36
			0.938	23.8	98.39	146.32
			1.000	25.4	104.23	155.15

Other sizes and specifications according to API standards are available



Cold Drawing



ISO 9001:2000 , ISO 14001: 1996,
OHSAS 18001: 1999, API 5L and API 5 CT
certifications are proofs of HSP's superior
quality standards and commitment to quality.

Due to superior quality standards and
customer satisfaction, the company was
awarded the "**Industrial Affairs Award 95**"
and "**Pakistan Economic Excellency**"
Award 1996-97".

These distinctions are recognitions of
company's role as a key industrial figure in
the country's growing economy.

HSP aims to provide customers with products which give full satisfaction. For this purpose, HSP requests its customers to provide the following information when ordering.

Pipes/Tubes Specifications

Standard, Code/Part No., Designation, Tolerance Class (where applicable), Steel Grade or Material No. and Test Category where applicable.

Specific Requirements

<i>Type of End Finish</i>	Square-cut Bevelled - <i>Type of bevelling</i> Threaded & Coupled - <i>Short, long, buttress, hand-tight, power-tight</i>
<i>Type of Coating</i>	Black Paint or Varnish Glavanised - Weight of Zinc Coating 3 Layers Polyethylene / Polypropylene Coating Fusion Bonded Epoxy Coating

Dimensions

Diameter	Nominal Bore or Outside Diameter Nominal Wall Thickness Weight Class or Schedule Number
Deviation	Deviation in Dimensions Allowed
Length	Specific or Random (Single or Double) (Either length tolerance or quantity allowance should be specified)

Quantity

Feet or meters or number of lengths

Packaging

Bundled or loose (*special packing should be specified*)

Condition of Delivery

Cold Finish/Hard, Cold Finish/Soft, Annealed, Normalized, Normalized and Tempered, Subcritically Annealed

Delivery Requirement

Date and Place

End-Use

(if known)

Other information of significance for manufacturing the product should be specified in purchase order.

Heat Treatment

Seamless Pipe Industries limited



Head Office

Huffaz Seamless Pipe Industries Limited,
207-210, Mashriq Centre, Gulshan-e-Iqbal, Block-14,
Karachi-75300, Pakistan.
PABX: 92-21- 4146241-2-3
Fax: 92-21- 4146249

Factory

90 K.M. Super Highway, Nooriabad Industrial Estate,
District Jamshoro, Sind, Pakistan.
PABX: 92-25-4670109 – 4670289
Fax: 92-25-4670274
E-mail : huffaz@cyber.net.pk
Website : www.huffaz.com.pk

Hydrostatic Testing