



Our Products

Delivering Certainty, Stability and
Trust from Expert Suppliers

ABOUT US



OUR HISTORY

35 years as a stockholder and distributor in the petrochemical industry located in a 20,000 sq ft warehouse on 3 acre UK site with offices overseas servicing our clients worldwide.

WORKING TOWARDS A SUSTAINABLE FUTURE

Here at ESS we realise the importance of improving our carbon footprint and providing more sustainable and environmentally friendly solutions for the renewable energy sector.



OUR MISSION

Combine technology and customer focus to provide a service that changes the way we purchase materials.



OUR VISION

To give market visualisation of stock materials available worldwide.



OUR VALUES

'TEGWCH' in our approach to all stakeholders. (Welsh for fairness).

TEGWCH - Team Energy Generating Work Culture underpinned by Honesty.

PIPES

PRODUCT	OUTSIDE DIAMETER (D)	WALL THICKNESS (t)	OUTSIDE DIAMETER (D)	WALL THICKNESS (t)
	(inch)	(inch)	(mm)	(mm)
Hot Finished Carbon/ Alloy Steel Seamless tubes and pipes	1.00 to 16.00	0.13 to 1.00	33.40 to 406.40	3.38 to 25.40
Seamless Casing and Tubing conforming to API SCT	2-3/8 to 13-3/8	0.19 to 0.51	60.30 to 339.70	4.83 to 13.06
Seamless Drill Pipes conforming to API SDP	2-3/8 to 6-5/8	0.25 to 0.50	60.30 to 168.30	6.45 to 12.70
Cold Finished Carbon/ Alloy Steel Seamless tubes and pipes	0.75 to 6.50	0.08 to 0.75	19.05 to 165.10	2.00 to 19.05
Couplings for OCTG Products	2-3/8 to 13-3/8		60.30 to 339.70	
Anti-Corrosion 3LPE / 3 LPP / FBE / IFBE Coating	2" to 14" as per ISO 21809 / DIN 30670 / 30678 and customer requirements			

SPECIFICATION:

ASTM (A53, A106), SA (53,106,179,192,210,213), DIN (1629, 2391, 17175), IS (3601, 3074), BS (3059) API SL (B, X42, X52, X56, X60, X65, X70 PSL1 & PSL 2 with Annexure J & H) API SCT (J55, K55, N80, L80, L80 (13 Cr), C90, C95, T95, P110, P110 HC, Q125) API SDP (E75, X95, G105, S135) PSL1, PSL 2 & PSL3

MAJOR STEEL GRADES:

SAE 1019, 1035, 1040,1045,1518, 1541, 4130, 4140, T11,T12, T22, T91, 8620, EN 19, ST 52,16MnCr5, 20MnCr5, 20MnV6, 100Cr6, 52100

Hot Extrusion Stainless Steel Seamless pipes UptoSchXXS	Upto6.00	UptoSchXXS	Upto168.30
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SPECIFICATION:

ASTM A312, EN 10216-5

MAJOR STEEL GRADE:

Austenitic Stainless Steel, Duplex Stainless Steel, Super Delux Stainless Steel, Martensitic Stainless Steel, Super Austenitic Stainless Steel, Ferritic Stainless Steel, Nickel Alloys

PRODUCT	SPECIFICATIONS	DIAMETER	THICKNESS	LENGTH
Welded Stainless Steel Tubes (Heat Exchanger, Condenser and LP/HP Heater U tubes)	ASTM A/SA 249, A269, A/SA688	0.5" to 4.5" (12.70 - 114.30 mm)	0.19"to 1.96" (0.5-5 mm)	Up to 62.30 ft (19 meters) Straight
	EN 10217-7 as per ISO Tolerance			Up to 98 Ft (30 meters) U-Tubes
Welded Stainless Steel/ Duplex/ Super Duplex Pipes	ASTM A312 / ASME SA312	0.5" to 36" NB	UptoSCH80S	Straight length up to 39.5 ft (12 meters)
	ASTM A 358, A 928, A 778,A 789	8"to 72" NB	0.19" to 1.38" (3-35 mm)	Generally produced in 12 meters double random length. Can be cut into smaller lengths as per customer's requirement
Stainless Steel/ Duplex/ Super Duplex Seamless Pipes	ASTM/ASME -A/SA 312 / EN 10217-7 as per ISO Tolerance	0.5" to 12" NB	UptoSCH80S	Up to 39.50 ft (12 meters) DRL
Stainless Steel Seamless Tubes	ASTM A/ASMESA213, A/SA789, A26	0.23" to 4.5"	0.027" to 0.315" (0.7-8mm)	Up to 62.30 ft (19 meters) Straight
	EN10216-5 As per ISO Tolerances	(6.0to 114.30 mm)		Up to 98 ft (30 meters) U-Tubes
UTubes	Minimum Radius 1.5 D, Maximum Radius 1250 mm			
Hot Induction Bends - Seamless & Welded	High Frequency Induction Healing	4"to56" NBtd>		Bend Radius 18" to 420"

FITTINGS

BUTTWELD FITTINGS

Carbon, stainless, duplex, super duplex and nickel alloy materials

Equal, Reducing, Barred, Lateral Tees, Concentric, Eccentric Reducers, Caps, Crosses, Elbows 45, 90, and 180 degree

CARBON

- ASME B16.9 - ASME B16.25
- DIN 2605 - 2615 - 2616 - 2617
- MSS -SP 25
- MSS - SP 75

BEVELLED ENDS

- According to ASME B.16.25

SIZES

- 1/2" - 48" (larger sizes on application)
- ASME/ASTM SA/A 234 WPB - WP11 - WP22 - WP9 - WP91 - WP5 - WP12
- ASME/ASTM SA/A 420 WPL6
- ASME/ASTM SA/A 860 - WPHY42 - WPHY52 - WPHY60 - WPHY65 - WPHY70
- MSS - SP 75 WPHY42 - WPHY52 - WPHY60 - WPHY65 - WPHY70
- NACE MR01.75 - NACE MR01.03 - NACE MR 01.75/ISO15156
- EN 10253 - 2 P235GH/P235GH
- DIN 2609 - ST35.8/l-ST37.0W

STAINLESS STEEL SEAMLESS AND WELDED

Size:

1/2" - 24"

Schedule:

SCH 10S, 40S, 80S, 160

Specification:

ASTM/ASME A/SA403 WP304(L), WP316(L), AS PER ANSI B16.9 / B16.28 / B16.25, NACE MR0175

FORGED STEEL FITTINGS

ASME B16.11, BS 3799, MSS SP83, MSS SP79, MSS SP95 standards.

Carbon, stainless, Duplex, Super Duplex and Nickel Alloy Forged Fittings, Outlet and Flanged Fittings which help us meet most critical lead times.

We produce forged fittings up to 6' & up to class 10 000lbs

Socket weld connection:
SW

Threaded connection:
NPT/BSP and others...

Our product range includes:

- Tees, caps, plugs, crosses, Elbows, Nipples, Couplings, Unions
- Weldolets, sockolets, latrolets, threadolets, nipolets
- Sweeplets, Inserts
- Flangolets, Nipoflange, API6A flange outlets



VALVES

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BALL, GATE, CHECK, GLOBE, BUTTERFLY, PLUG, BELLOW SEAL, CRYOGENIC AND JACKET VALVES.

TYPICAL DESIGN PARAMETERS

DESIGN FEATURES:

- Nominal Size Range: NPS 1/2" ~ 48"
- Pressure Rating: Class 150LB - 2500LB
- Connection: Flange (RF, FF, RTJ)

DESIGN SPECIFICATIONS:

- Design: API 6D
- Pressure-temperature rating: ASME B16.34
- Face-to-face dimensions for butt weld and flanged valves: ASME B16.10
- Flange design: ASME B16.5
- Butt welding design: ASME B16.25

All valves are designed to comply with the requirements of ASME B16.34, and the ASME as well as customers' requirements as applicable.

ACTUATORS:

Gear, Electric, Cylinder, Pneumatic, Hydraulic, Lever, Chain wheels

BODY MATERIAL:

A216-WCB (Carbon Steel), A217-WC6 , A217-WC9, A217-C5, A217-C12 , A352-LCB (Carbon Steel), A352-LCC (Carbon Steel), A351-CF8M (18Cr-9Ni-2Mo), A351-CF3M (18Cr-9Ni-2Mo) A105, LF2, LF3, F5, F321, F304, F316, F51, F55....

QUALITY ASSURANCE (QA):

Every step from procurement through production, welding, assembly, testing, and packaging is in accordance with quality programs and procedures (ASME Section III manual and ISO 9001 manual).

QUALITY CONTROL (QC):

The QC is responsible for all aspects of quality, from receiving of material to control of machining, welding, nondestructive examination, assembly, pressure testing, cleaning, painting, and packaging.

PRESSURE TESTING:

Each valve is pressure tested in accordance with API 6D, API 598, or special customers' requirements as applicable.



FLANGES

CARBON STEEL FLANGES

- ANSI B16.5 FORGED CLASS150, 300, 600, 900, 1500, 2500LB - MATERIAL GRADES: ASTM A105N, ASTM A350 LF2 ASTM A694 - SIZES: ½" TO 24" OFFERED IN RF, FF AND RTJ FINISH.
- ANSI B16.47 SERIES A & B FORGED CLASS150, 300, 600LB - MATERIAL GRADES: ASTM A105N, ASTM A350 LF2 ASTM A694 - SIZES: 26" TO 48" OFFERED IN RF, FF AND RTJ FINISH.
- ANSI B16.47 SERIES A & B FORGED CLASS150, 300, 600LB - MATERIAL GRADES: ASTM A105N, ASTM A350 LF2 ASTM A694 - SIZES: 26" TO 48" OFFERED IN RF, FF AND RTJ FINISH.
- BS EN1092 (BS4504) FORGED PN6, 10, 16, 25, 40 - MATERIAL GRADES: BS.EN 10025 S235JR & ASTM A105N - SIZES: 15MM TO 300MM (1/2" TO 12")
- BS10 2010ED. - MATERIAL GRADES: ASTM A105N, ASTM A350 LF2 ASTM A694 - SIZES: 15MM TO 900MM (½" TO 36") N.B. ABOVE 12" PLATE ONLY.

DUPLEX & SUPER DUPLEX STAINLESS STEEL FLANGES ARE ALSO AVAILABLE

- ANSI B16.11 - MATERIAL GRADES: ASTM A182 F51 -F55 - SIZES: 15MM TO 300MM (1/2" TO 12") OFFERED IN RF AND RTJ FINISH.



**'ESS PRIDES ITSELF
ON PROVIDING THE
WIDEST SELECTION OF
PIPELINE PRODUCTS
TO OUR CUSTOMERS'.**

GASKETS / BOLTS

GASKETS

Manufactured from the following materials and consisting of but not limited to the below range:

MATERIAL

Graphite, Rubber, Non-Asbestos, Cork, PTFE

TYPE

Gland Packing, Mechanical Seals, O Rings, Spiral Wound Gaskets, Rubber Gaskets



BOLTS

ASTM A193, A320		ASTM A194	
B5	L43	2H	8
B6	B8 CLASS 1 & 2	2HM	8A
B7	B8M CLASS 1 & 2	4	8C
B7M	B8T CLASS 1 & 2	6	8M
L7	B8C	7	8MA
L7M	B16	7M	8T

**STOCK
SURPLUS
EASIER
ESTIMATE
FREE
MINDS
SUSTAINABLE
ONLINE
PURCHASE
MATERIALS
ENVIRONMENT
DISRUPTIVE
TECHNOLOGY
PIONEER
INDUSTRIAL**



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