



In 1984, our journey into the business of repairing valves and industrial instrumentation began. That journey has led us to represent and service well known American brands and companies. In early 2000, our experience and growing passion for the valve industry encouraged our decision to launch our own brand, Morris Valves, Starting with the highly requested Ball Valves, the brand has been based on the principal of quality and performance to match our customers' needs. Our high standards of production later lead us to incorporate other models such as Gate Valve and Check Valves to our production. These additions were carefully selected to match our Standard of Quality. Our success has been driven by our belief of "Tradition with Quality" in everything we do. Our products are developed with that belief which drives our growth and guides the service we provide to our customers.

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# Vision

Our vision is to be amongst the leading corporations in the supply of goods and services related to valves, their components and industrial equipment in general. We want to conquer new markets in conformity with international standards and remain committed to customer satisfaction, the welfare of our company and the sustainability our planet.

# Mision

Our mission is to use our highly trained, highly focused, and extremely motivated staff to work with manufacturers who value quality and have the vision for new development and product applications to ensure the timely provision of goods and services related to valves, their components and industrial equipment in general. We maintain a rigorous standard of customer satisfaction, which will provide for the welfare of the company, the welfare of the countries we serve, and most importantly the sustainability of the planet.

"Serving the world, one project at a time"

# Anited States of America United States Patent and Trademark Office



Reg. No. 4,840,307

MORRIS VALVES, INC. (FLORIDA CORPORATION) 5590 N.W. 84TH AVE.

Registered Oct. 27, 2015 MIAMI, FL 33166

Int. Cl.: 6

FOR: METAL PIPES AND METAL FITTINGS THEREFOR; METAL TUBES AND METAL

FITTINGS THEREFOR, IN CLASS 6 (U.S. CLS. 2, 12, 13, 14, 23, 25 AND 50).

TRADEMARK

FIRST USE 2-11-2015; IN COMMERCE 2-11-2015.

PRINCIPAL REGISTER

OWNER OF U.S. REG. NO. 4,241,186.

THE COLOR(S) YELLOW, WHITE, AND BLUE IS/ARE CLAIMED AS A FEATURE OF THE

THE MARK CONSISTS OF A STYLIZED WHITE LETTER "V" WITH A BLUE OUTLINE INSIDE OF A STYLIZED LETTER "M" IN BLUE OUTLINED WITH YELLOW. THE BACK-

GROUND OF THE MARK IS WHITE.

SER. NO. 86-543,795, FILED 2-24-2015.

MARCIE MILONE, EXAMINING ATTORNEY



Michelle K. Len

Director of the United States Patent and Trademark Office



#### **ELECTRIC RESISTANCE WELDED PIPES (ERW)**

The processing of Electric Resistance Welded (ERW, induction welding and contact welding)pipe begins as a coiled plate of steel with appropriate thickness and specific width to form a pipe that conforms to its relevant specification.

### **ERW** pipe is cold formed.

The ribbon is pulled through a series of rollers that gradually form it into a cylindrical tube. As the edges of the now cylindrical plate come together, an electric charge is applied at the proper points to heat the edges so they can be welded together. The pipe has short weld joints, high dimensional accuracy, uniform thickness, and excellent surface and can bear high pressure.

ERW pipe is a high-speed production product, that can be made in continuous lengths up to 115'(35m). It produces uniform wall thicknesses and outside dimensions and is made in a wide range of specifications. It does, however, require minimum tonnage to set up on a specific size and sometimes has long lead times.







### ERW Pipe is available in the follow specifications.

- \* ASTM A-53 pipe comes in three types (F, E, S) and two grades (A, B).
- \* ASTM A-53 Type E has an ERW (Grades A and B)
  - •Size Range: 1/8" 12".
- \* A-135.
- \* A-252 Grade 1. 2, 3.
- \* API5L Grade A & B.
- \* API5L X42 thru X55

**The API 5L** covers SMLS &WELDED steel line pipe. Specifications for API 5L adhere to the ISO 3183 which standardizes pipe line transportation systems whiting the materials, equipment and offshore structures for Petroleum, Petrochemical and natural gas Industries.

There are two basic Products Specifications Levels (PSL) of technical requirements and therefore developed PSL1 & PSL2.

## PSL1 is a standard quality for line pipe where PSL2 contains additional chemical, mechanical properties, and testing requirements.

Grades covered by this specification are: A25, A, B (API5L Grade A & B) and the following "X" Grades, X42, X46, X52, X56, X 60, X65, X70, X80.

The two-digit Number following the "X" indicates the Minimum Yield Strength in 000's Psi of Pipe produced to this Grade.

	SPECIFICATIONS FOR ERW																		
	Chemical Properties Yield													Mechanical Properties					
													Yield	Tensile	Tensile				
STD	CLASS	Grade	C	Mn.	P	S	Cu	NiA	CrA	MoA	VA	Strength	Strength	Strength	Strength				
A.E.O.				Max%		Max.%						- ( - /	Max.(Ksi)	Min.(Ksi)	Max.				
A53	TYPE E (ERW)	A B	0.25	0.95	0.05	0.045	0.4	0.4	0.4	0.15	0.08	30	None	48	None				
	(ENVV)		0.3	1.2	0.05	0.045	0.4	0.4	0.4	0.15	0.08	30	None	60	None				
		2B II	0.21	0.60	0.30	0.30	-	-	-	-	-	25	None	45	None				
		<sup>20</sup> II	0.21	0.60	0.80	0.30	-	-	-	-	-	25	None	45	None				
		Α	0.22	0.90	0.030	0.030	-	-	-	-	-	30	None	48	None				
		В	0.26	1.20	0.030	0.030	-	-	-	-	-	35	None	60	None				
	PSL1	X42	0.26	1.30	0.030	0.030	-	-	-	-	-	42	None	60	None				
	PSLI	X46	0.26	1.40	0.030	0.030	-	-	-	-	-	46	None	63	None				
API 5L		X52	0.26	1.40	0.030	0.030	-	-	-	-	-	52	None	66	None				
API 3L		X56	0.26	1.40	0.030	0.030	-	-	-	-	-	56	None	71	None				
		X60	0.26	1.40	0.030	0.030	-	-	-	-	-	60,	None	75	None				
		X65	0.26	1.45	0.030	0.030	-	-	-	-	-	65	None	77	None				
		X70	0.26	1.65	0.030	0.030	-	-	-	-	-	70	None	82	None				
		В	0.22	1.20	0.025	0.015	-	-	-	-	-	35	65	60	110				
		X42	0.22	1.30	0.025	0.015	-	-	-	-	-	42	72	60	110				
		X46	0.22	1.40	0.025	0.015	-	-	-	-	-	46	76	63	110				
	201.0	X52	0.22	1.40	0.025	0.015	-	-	-	-	-	52	77	66	110				
	PSL2	X56	0.22	1.40	0.025	0.015	-	-	-	-	-	56	79	71	110				
		X60	0.22	1.40	0.025	0.015	-	-	-	-	-	60	82	75	110				
		X65	0.22	1.45	0.025	0.015	-	-	-	-	-	65	87	77	110				
		X70	0.22	1.65	0.025	0.015	-	-	-	-	-	70	90	82	110				
		X80	0.22	1.85	0.025	0.015	-	-	-	-	-	80	100	90	120				

- A) The total composition for these five elements shall not exceed 1.00 %.
- B) For each reduction of 0.01 % below the specified carbon maximum, an increase of 0.06 % manganese above the specified maximum will be permitted up to a maximum of 1.35 %.

**Sizes: For ERW** We use the 24" diameter pipe because it is the only size common to all the forms of production. ASTM A-53 Type E has an ERW (Grades A and B)

- \* Size Range: 1/8" 12"
- \* Weight Class: STD, XS (Extra Strong), XXS(Double Extra Strong)
- \* Schedule Numbers: 40,80,160

It is common practice to dual stencil seamless pipe with API5L and ASTM A-53 monograms.

ASTM A53 API5L PSL1 Gr B, X42,X52,X60

\* Size Range: 2" - 24"



**Sizes:** The NPS value in inches relates to the inside diameter (ID). i.e. a 1" SCH STD tube has an I.D= 1" (25.4mm); but only up to 12 inches.

For NPS 14 and larger, the NPS Is equal to the outside diameter in inches, which are based on ASME standards B36.10M and B36.19M).

		ERW PIPES COMMON SIZES (NPS/O.D)  WEIGHT CLASS/SCHEDULE																	
W.T		Δ.		E2 C* D			AS	TM A5		b/Ft) L (DUAL :	STENCIL	.)							
	1/2	3/4	1	53 Gr B 1-1/2 1.900	2	2-1/2 2.875	3 500	4 4 500	6	8 8.625	10 10.75	12 12.75	14	16	18	20	22	24	26
0.109	STD (0.85)	1.030	1.515	1.500	2.575	2.073	3.300	4.500	0.023	0.023	10.75	12.73							
0.147	XS (1.09)																		
0.188	160 (1.31)																		
0.294	XXS (1.72)																		
0.113		STD (1.13)																	
0.133			STD (1.68)																
0.145		VC (0.0		STD (2.72)	CTD														
0.154		XS/80 (1.48)	VC		STD (3.66)														
0.179			XS (2.17)	XS/80		CTD													
0.200				(3.63)		STD (5.80)	STD												
0.218					XS		(7.58)												
0.219		160			(5.03)														
0.237		(1.95)						STD											
0.250			160					(10.80)		20	20	20							
0.276			(2.85)			XS				(22.38)	(22.38)	(33.41)							
0.277						(7.67)				30									
0.280									STD	(24.72)									
0.281				160					(18.99)										
0.300				(4.86)			XS (10.26)												
0.307							(10.20)				30 (24.72)								
0.308		XXS (2.44)									,, _)								
0.312		,											20 (45.65)	20 (52.32)	20 (58.99)				
0.322										STD/40 (28.58)				<u>'</u>	<u> </u>				
0.330												30 (43.81)							
0.337								XS/80 (15.00)											
0.344					160 (7.47)														
0.358			XXS (3.66)								CTD / 1-								
0.365											STD/40 (28.58)		CTD /2.2	CTD /2.5	CTD	CTD /2.0	CTD /2.2	CTD /22	CTD
0.375				VVC		160 (10.02)						(49.61)	(54.62)	(62.64)	(70.65)	(78.67	(86.69)	STD/20 (94.71)	STD (102.72)
0.400				XXS (6.41)															

						۸۵		(L	ASS/SCH .b/Ft)		\							
W.T	1/2	AS	<mark>53 Gr B</mark> 1-1/2	2	2-1/2	3	4		L (DÚAL 8	10	12	1.4	16	18	20	22	24	26
0.406		1.050			2.875		4.500	6 6.625	8.625	10.75	12.75	14	10	10	20	22	24	20
											(53.57)	)						
0.432								XS/80 (28.60)										
0.436				XXS 9.04				,										
0.438				9.04		160	120					40		30				
0.500						(14.34)	(19.02)		XS/80	XS/60	XS	(63.50) XS	XS/40	(82.23) XS	XS/30	XS/30	XS	XS/20
0.531							160		(43.43)	(54.79)	(65.48)	(72.16)	(82.85)	93.54	(104.23)	(114.92)	(125.61)	(136.30
					\0.46		(22.53)											
0.552					XXS 13.71													
0.562								120 (36.43)						40 (104.76)			30 (140.81)	
0.594								Ì		80 (64.49)		60 (85.13)			40 (123.23)			
0.600						XXS				(04.43)		(03.13)			(123.23)			
0.656						(18.60)							60					
0.674							XXS						(107.60)					
							(27.57)				00						40	
0.688											80 (88.71)						40 (171.45)	
0.719								160 (45.39)										
0.750								,				80 (106.23)		60 (138.30)				
0.812												(100.23)		(136.30)	60			
0.844													80		(166.56)			
0.864								XXS					(136.74)					
								(53.21	V0/6									
0.875									XXS (72.49)									
0.906									160 (74.66)									
0.938									(* 1100)			100 (130.98)		80 (171.08)				
1.000										XXS/140	XXS/120			(171.06)				
1.031										(104.23)	(125.61)	)	100		80			
1.094												120	(164.98)		(209.06)			
												(150.93)						
1.125										160 (115.75)						80 (251.05)		
1.156														100 (208.15)				
1.219													120				80	
1.250												140	(192.61)				(296.86)	
1.312											160	(170.37)						
1.406											(160.42)	160		120				
												(189.29)	4.40	(244.37)				
1.438													140 (223.85)					
1.562																		
1.594													160					
1.781													160 (245.48)					
1.969														(308.79)	160			
2.125															(379.53)	160		
																(451.49	4.55	
2.344																	160 (542.64)	

### **Applications:**

#### ERW pipe is primarily used as:

- \* API Line pipe for the transmission of gas and oil.
- \* It is also used for the transmission of water Under AWWA specifications.
- \* As piling and slurry pipe and mechanical applications.
- Weight Class: STD, XS (Extra Strong), XXS(Double Extra Strong).
- Schedule Numbers: 40,80,160
- **Surface finishes are available in:** Black (oiled). Galvanized. and Bare. Also, supplied with Inorganic coatings

(anodic chromate, oxide and vitress enamels); Organic coatings (paints. varnishes. lacquers. rubber, and plastics such as x-tru coat and Scotchkote); Bituminous coatings (asphalt and coal tar).

**Marking:** Required Markingson Each Length(Each Joint, Each Piece). On Tags attached toeach Bundle in case of Bundled Pipe.

- 1. Rolled, Stamped or Stenciled (Manufacture Name) or Registered Trade Mark (MORRIS VALVES OR LOGO).
- 2. Kind of pipe; that is:
  - a. CW, ERW A, ERW B, Seamless A; or Seamless B;
- 3. STD, XS for extra strong, XXS for double extra strong.
- 4. Manufacturing STD (ASTM A53).
- 5. Length of pipe.

**Length:** 21 foot uniform lengths. (SRL) single random lengths from 16 foot to 22 foot and (DRL) double random lengths from 38 foot to 80 feet.

**Ends:** Square ends, Beveled 30° for welding, Threaded both ends, Threaded and coupled and Victaulic grooved for use with Victaulic couplings.

### **Inspection& Testing:**

- 1. Hydrostatic test pressures for plain-end pipe According ASTM A53/A 53M,
- 2. Elongation in 2" Refer to A 53 table x 4.1, latest revisions ASTM A53/A 53M
- 3. Ultrasonic testing,
- 4. Eddy current testing,
- 5. Magnetic particle Testing,
- 6. Impact testing, Hardness testing, etc.



### **Packaging:**

For Sizes NPS 1 & 2 and smaller are normally put in standard bundles.



### **Certification:**

MILL TEST CERTIFICATE ACCORDING TO EN10204 - 3.1 IN ENGLISH LANGUAGE

### **Warranty:**

12 MONTHS FROM DATE OF COMMISSIONING OR 18 MONTHS FROM SHIPMENT DATE





A Tradition of Quality

Our passion is to develop solutions for difficult situations in Industrial Applications, no matter how large or small the project.

"Serving the world, one project at a time"