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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.

## Contacts

Address: 6803 Theall Rd Building B, Houston, Tx 77066 Telefhone: +1 (832) 666-5576 Cel: +1 (786) 779-7469 Email: sales@morrisvalve.com



# 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"





Reg. No. 4,840,307 Registered Oct. 27, 2015	MORRIS VALVES, INC. (FLORIDA CORPORATION) 5590 N.W. 84TH AVE. 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 MARK.
	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



#### **LSAW PIPES**

Longitudinally Submerged Arc Welded Steel pipes. - Longitudinal edges of steel plates as raw material, are first beveled using carbide milling equipment; Beveled plates are then formed into a U shape using a U-press and subsequently into an O shape using an O-press.UOE is the name of the method used for production of longitudinally welded large diameter pipes.

Longitudinal edges of the plates are then tack welded followed by internal and external welds, using double-sided submerged arc welding and flaring from production.

The coherence of cutter head and plate clamping system guarantees the invariable parameters during the entire milling process; accordingly, it ensures the milling quality and lays a good foundation for the success of subsequent welding.

Pipes manufactured by this process are subjected to expanding operation to relieve internal stresses and obtain a perfect dimensional tolerance.

After the pipes are conveyed to cold expansion, hydrostatic testing and NDT inspection, the pipes will be subject to final inspection for the compliance to customer requirements.

#### **Standard Manufacturing:**

- \* ASTM 53
- \* API Spec 5L
- \* ASTM A252-89, EN10217, EN10219

### **Steel grades:**

- \* API 5L: GR A, GR B, X42, X46, X56, X60, X65, X70
- \* ASTM A252 GR 1, GR 2, GR 3
- \* ASTM A53: GR A, GR B, GR C, GR D
- \* BS 4360: Grade 43, Grade 50
- \* EN: S275, S275JR, S355JRH, S355J2H

Size range by usage												
Usage	O.D.(mm)	W.T.(mm)	Length(m)									
Oil &gas pipeline	406-1524(16" – 60")	6-40 (1/4" – 1.57")	8-12.1									
for Construction(Pipe Piles)	350-1600(14" – 63")	6-60 (1/4" – 2.36")	6-12									
Roller pipe	1200-3800(47.24" – 150")		<=3.2									
Addition to above specification	Addition to above specification, the pipes can be produced according to customer's requirements.											





#### **DOUBLE SUBMERGED ARC WELD PIPE (DSAW)**

Derives its name from the welding process wherein the welding arc is submerged in flux while the welding takes place. Both inside and outside welds are required and are usually accomplished in separate processes, hence the word "double." These separate welds consume a portion of the other resulting in a single high quality weld nugget.

#### Two different processes are used to manufacture DSAW pipe;

1. The pyramid rolls method, and the 2. U-O-E method.

The difference in the processes is found only in the method of forming the cylinder.

a. In the pyramid rolls process the cylinder is formed between 3 rolls arranged in a pyramidal fashion.

b. As the name implies; the U-O-E method uses a "U" press, and "0" press for forming. Other parts of the process such as finishing and inspection are similar.

vBoth processes use flat steel plate as the raw material.

DSAW pipe mayor may not be cold expanded. Cold expansion is a process where the pipe is expanded (up to 1.5%) to obtain its final 00 dimension. In the process, a gain of yield strength results.

Expansion is most often utilized in a U-O-E mill due to the need to recover the yield strength lost during forming in the "0 press.

#### DSAW Pipe is available in the following specifications:

\* ASTM A134,

- \* A139, A252,
- \* A671, A672, A690, A691,
- \* A500, A515.
- \* CSA (Canadian) –Z245.1 and custom specifications.
- \* API 2B, 5LB, 5LX-42 thru 5LX-80

**SPIRAL WELDED.** -Is a steel pipe having a DSAW seam the entire length of the pipe in a spiral form. The outside diameter is determined by the angle of the de-coiled steel against the forming head. The more acute the angle, the greater the diameter.

The production of large, hot rolled coils of sufficient width and the development of dependable non-destructive testing methods has enabled this product to be placed in more demanding service.

Spiral weld pipe can be rolled in exact lengths up to 115 feet in either ID or OD dimensions up to 144 inches. **There is a minimum tonnage required for rolling.** Because the manufacturing process is slow, it gives the contractor an advantage of short term changes to the order. This same slow production can also be a disadvantage when large tonnages are needed with a short lead time.

Spiral weld pipe is produced to limited specifications. Now, if this is confusing to you, don't get discouraged. Steel pipe is a complex world to understand. A few charts might help.





#### SPECIFICATION FOR ASTM A-134 Chemical and Mechanical Properties

						CII	ennicai	anu iv	iceria	incar r i	operties		
			Cł	nemica	l Requ	uireme	nts (Co	mposi	tion %	6)	Т	ensile Requirement	s
Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr Max	Ni Max	Co Max	Mo Max	V Max	Yield strength Min (MPa)/Ksi	Tensile strength Min (MPa)/Ksi	Elongation Min (%)
A283 Gr.A	0.14	0.9	0.035	0.04	0.4						165 / 24	310/45-60	30
A283 Gr.B	0.19	0.9	0.035	0.04	0.4						215 / 27	345/50-65	28
A283 Gr.C	0.24	0.9	0.035	0.04	0.4						205 / 30	380/ 55-75	25
A283 Gr.D	0.27	0.9	0.035	0.04	0.4						230 / 33	415/60-80	23
A285 Gr.A	0.17	0.9	0.035	0.035	0.4						165 / 24	310/45-65	30
A285 Gr.B	0.22	0.9	0.035	0.035	0.4						215 / 27	345/ 50-70	28
A285 Gr.C	0.28	0.9	0.035	0.035	0.4						205 / 30	380/ 55-75	27
A570 Gr.30	0.25	0.9	0.035	0.04	0.4						205 / 30	340/49	25
A570 Gr.33	0.25	0.9	0.035	0.04	0.4						230/33	360/ 52	23
A570 Gr.36	0.25	0.9	0.035	0.04	0.4						250 / 36	365/ 53	22
A570 Gr.40	0.25	0.9	0.035	0.04	0.4						275 / 40	380/ 55	21
A570 Gr.45	0.25	1.35	0.035	0.04	0.4						310/45	415/60	19
A-570 Gr 50											345 / 50	450 / 65	17
A-570 Gr 50											380 / 55	480 / 70	15
A36/A36M	0.26	0.9	0.04	0.05	0.4						250/36	400/ 58-80	20

	SPECIFICATION FOR ASTM A-139 Chemical and Mechanical Properties													
Chemical Requirements (Composition %) Tensile Requirements														
Grade	Grade C Mn P S Si Cr Ni Co Mo V Y Max Max Max Max Max Max Max Max Max Max									Yield strength Min (MPa)/Ksi	Tensile strength Min (MPa)/Ksi	Elongation Min (%)		
A-139 Gr. A	0.25	1.00	0.035	0.035	0.4						30	48		
A-139 Gr. B	0.26	1.00	0.035	0.035	0.4						35	60		
A-139 Gr. C	0.28	1.20	0.035	0.035	0.4						40	70		
A-139 Gr. D	0.30	1.30	0.035	0.035	0.4						42	60		
A-139 Gr. E	0.30	1.40	0.035	0.035	0.4						52	66		



	SPECIFICATION FOR ASTM A-252for welded and seamless steel pipe piles Chemical and Mechanical Properties													
	Chemical Requirements (Composition %) Tensile Requirements													
Grade	C Max	. Mn P S Si Cr Ni Co Mo V Yield strength Tensile strength Elo ax Max Max Max Max Max Max Max Max Min (MPa)/Ksi Min (MPa)/Ksi M								Elongation Min (%)				
A-252 Gr. 1	N/A	N/A	0.050	N/A	N/A						30	50	18 - 30	
A-252 Gr. 2	N/A N/A 0.050 N/A N/A 0 35 60 14-2								14 - 25					
A-252 Gr. 3	A-252 Gr. 3 N/A N/A 0.050 N/A N/A M/A A A A A A A A A A A A A A A A A A											20		

SPECIFICATIO	SPECIFICATION FOR ASTM A- 500. for cold-formed welded and seamlesstubing in rounds and shapesfor general structural purposes Chemical and Mechanical Properties														
	Chemical Requirements (Composition %) Tensile Requirements														
Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr Max	Ni Max	Co Max	Mo Max	V Max	Yield strength Min (MPa)/Ksi	Tensile strength Min (MPa)/Ksi	Elongation Min (%)		
GRADE B	0.26	1.35	0.035	0.035	N/A						42	46	23		
GRADE C	0.23	1.35	0.035	0.035	N/A						58	62	21		

SPECIFICATION FOR ASTM A- 671 / 672 Chemical and Mechanical Properties															
			Cl	nemica	al Requirer	ments (	Compo	ositior	n %)		Ten	Tensile Requirements			
Grade	C Max										Yield strength Min (MPa)/Ksi	Tensile strength Min (MPa)/Ksi	Elongation Min (%)	HB Max	
-/A45	-/0.17	0.98	0.35	0.35	-										
-/A50	-/0.22	0.98	0.35	0.35	-										
CA55/A55. Plain Carbon	0.28	0.98	0.35	0.35	-										
-/B55	-/0.20	0.98	0.35	0.35	0.13-0.45										
CB60/B60.Plain Carbon Killled	0.24	0.98	0.35	0.35	0.13-0.45										
CB65/B65.Plain Carbon Killed	0.28	0.98	0.35	0.35	0.13-0.45										
CB70/C70.Plain Carbon Killed	0.31	1.30	0.35	0.35	0.13-0.45										
-/C55	-/0.18	0.55	0.35	0.35	0.13-0.45										
CC60/C60.Plain CK Fine Grain	0.21	-0.98	0.35	0.35	0.13-0.45										
CC65/C65.Plain CK Fine Grain	0.24	0.79	0.35	0.35	0.13-0.45										
CC70/C70.Plain CK Fine Grain	0.27	1.30	0.35	0.35	0.13-0.45										

SPECIFICATION FOR ASTM A- 690 Chemical and Mechanical Properties														
Chemical Requirements (Composition %)												sile Requirem	ents	Hardness
Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr Max	Ni Max	Co Max				Tensile strength Min (MPa)/Ksi	Elongation Min (%)	HB Max
A -690	< 0.22	0.6–0.9	0.8–0.15	< 0.04	< 0.04						> 345	> 485	> 21	

SPECIFICATION FOR ASTM A/SA 691 CHROME MOLY ALLOY WELDED PIPE Chemical and Mechanical Properties														
Chemical Requirements (Composition %) Tensile Requirements													Hardness	
Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr Max	Ni Max	Co Max	Mo Max	V Max	Yield strength Min (MPa)/Ksi	Tensile strength Min (MPa)/Ksi	Elongation Min (%)	HB Max
A 1 ¼ Cr	< 0.22	0.6–0.9	0.8–0.15	< 0.04	< 0.04						> 345	> 485	> 21	
2 ¼ Cr														
5 Cr														
9 Cr														
91														
-690														





### A Tradition of Quality

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



